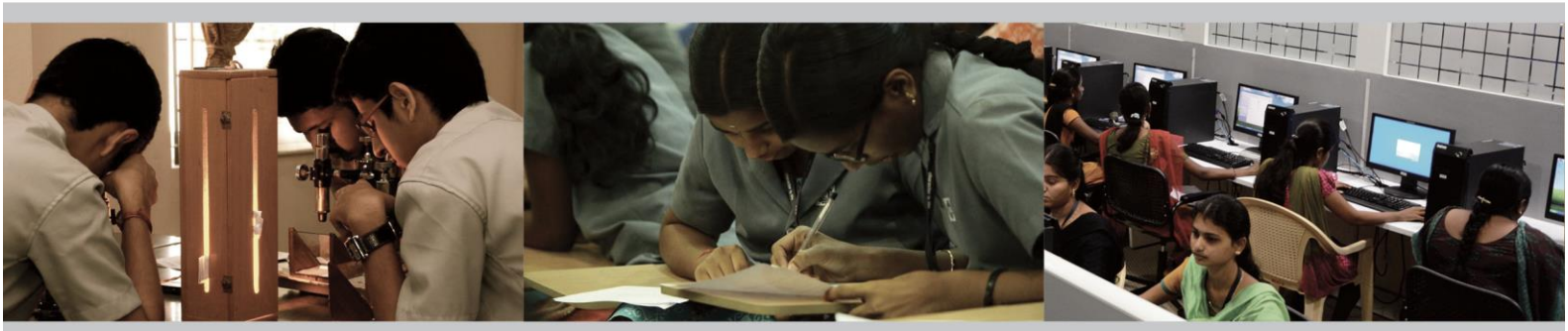
KUMARAGURU
college of technology
character is life



NAAC
SELF STUDY REPORT

for Re-accreditation

Volume – I

SSR

Submitted to
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

March 2016

KUMARAGURU COLLEGE OF TECHNOLOGY
(An Autonomous Institution Affiliated to Anna University, Chennai)
Coimbatore - 641 049.

NAAC SELF STUDY REPORT

for Re-accreditation

Volume – I

Submitted to
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

March 2016

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KUMARAGURU
college of technology
character is life

www.kct.ac.in

[An Autonomous Institution
Established in 1984
Affiliated to Anna University Chennai
Approved by AICTE, New Delhi
Accredited by NAAC]

KCT/NAAC/SSR - 2016/ 15.4.2016

To

The Director
National Assessment and Accreditation Council
P.B.No.1075, Nagarbhavi
Bangalore- 560 072

Sir,

Sub: Track ID: TNCOGN13763 – Self-Study Report for Re-Accreditation – Hard and Soft copies along with Demand Draft for Rs. 6,87,000/- submitted –reg.

Ref: 1. Letter of Intent no. NAAC/CAPU / South / TNCOGN13763/2015 dated 26.10.2015
2. Our Letter no. KCT/NAAC/SSR-2016 dated 21.3.2016, intimating the uploading of the soft copy of SSR in our College web portal.

With reference to the above, we wish to inform that the soft copy of the Self Study Report for Re-Accreditation (Second Cycle) of Kumaraguru College of Technology, Coimbatore has been uploaded in the website of the college on 21.3.2016 and the same was intimated to NAAC by email and vide letter second cited.

We submit five hard copies of the SSR and a soft copy in CD along with the demand draft (No.766191 dated 19.03.2016 of Karur Vysya Bank, Saravanampatti-KCT Branch) for Rs. 6, 87,000/- (Rupees Six lakhs and eighty seven thousand) payable at Bangalore, towards the accreditation fee.

The receipt of the hard copy of the Self-Study Report (five copies with one CD) and the Demand draft may kindly be acknowledged.

Thanking You,

Yours truly,

PRINCIPAL

Encl: As above

P.B.No.2034 Coimbatore - 641 049 Tamilnadu INDIA
Voice : +91 422 266 11 00 Fax : +91 422 266 94 06
info@kct.ac.in

NAAC - Steering Committee

S. No.	Name	Designation	Department	Role
1	Dr. R.S. Kumar	Principal	KCT	Chairperson
2	Dr. A. Vasuki	Prof & HOD	ECE	Coordinator
3	Mr. S. Bhaskar	Assoc. Prof. & HOD	CAE	Member
4	Mr.P.Jeeva Kalyanasundaram	Administrative Officer	KCT	Member
5	Dr. J. Vijay Prakash	Assoc. Professor	CoE	Member
6	Mr. M. Senthilkumar	AP(SRG)	AERO	Member
7	Prof. C. Vasantharaj	Prof & HOD	AUTO	Member
8	Dr. N. Saraswathy	Prof & HOD	BT	Member
9	Dr. J. Premalatha	Prof & HOD	Civil	Member
10	Dr. P. Devaki	Prof & HOD	CSE	Member
11	Dr. Rani Thottungal	Prof & HOD	EEE	Member
12	Dr. M. Ezhilarasi	Prof & HOD	EIE	Member
13	Dr. J. Srinivasan	Prof & HOD	FT	Member
14	Dr. Ramalatha Marimuthu	Prof & HOD	IT	Member
15	Dr. S.A. Pasupathy	Sr. Assoc. Prof & HOD	MCE	Member
16	Dr. V. Muthukumaran	Prof & HOD(UG)	ME	Member
17	Dr. P. K. Giridharan	Prof & HOD(PG)	ME	Member
18	Dr. T. Arunachalam	Prof & HOD	S&H	Member
19	Dr. Bhaarathi Dhurai	Prof & HOD	TXT	Member
20	Dr. V. Geetha	Prof & HOD	MCA	Member
21	Dr. Vijila Kennedy	Director	MBA	Member

NAAC – Working Committee

S. No.	Name	Designation	Department	Role
1	Dr. R.S. Kumar	Principal	KCT	Chairperson
2	Dr. A. Vasuki	Professor & HOD	ECE	Convener
3	Mr. S. Bhaskar	Assoc. Prof. & HOD	CAE	Coordinator
4	Mr.P.Jeeva Kalyanasundaram	Administrative Officer	KCT	Member
5	Dr. J. Vijay Prakash	Assoc. Professor	CoE	Member
6	Mr. S. Senthil Kumar	AP	AERO	Member
7	Dr. S. John Alexis	Professor	AUTO	Member
8	Dr. T. Sathish Kumar	AP (SRG)	BT	Member
9	Dr. K. Ramadevi	Assoc. Professor	Civil	Member
10	Dr. M.S. Hema	Assoc. Professor	CSE	Member
11	Dr.G.Amirtha Gowri	Assoc. Professor	ECE	Member
12	Mr. P. Thirumoorthy	Assoc. Professor	EEE	Member
13	Ms. Roshini Varghese	AP-II	EIE	Member
14	Mr. C.S. Senthilkumar	Assoc. Professor	FT	Member
15	Mr. E.A. Vimal	AP (SRG)	IT	Member
16	Mr. S. Premanand	AP-II	MCE	Member
17	Dr. C. Velmurugan	Professor	ME	Member
18	Dr. V. R. Muruganantham	Assoc. Professor	ME	Member
19	Ms. V. Abirami	AP	S&H	Member
20	Ms. S. Selvanayaki	AP (SRG)	S&H	Member
21	Ms. K. Rathidevi	AP	S&H	Member
22	Dr. V. Ramesh Babu	Assoc. Professor	TXT	Member
23	Dr. M. Manikandan	AP (SRG)	MCA	Member
24	Mr. A. Senthilkumar	AP (SRG)	MBA	Member

PREFACE

Kumaraguru College of Technology (KCT), Coimbatore is an autonomous institution started in 1984 under the auspices of **Ramanandha Adigalar Foundation,** a charitable educational trust of Sakthi Group. It is located in a sprawling campus of 150 acres with total built-up area of 98,912.74 sq.m in the IT corridor of Coimbatore.

The able guidance and patronage of late *Padmabhushan* **Dr.N.Mahalingam,** *Chairman* - Sakthi Group along with the efficient administration of **Dr. B. K. Krishnaraj Vanavarayar,** *Chairman,* the resourcefulness of **Shri. M. Balasubramaniam,** *Correspondent,* the foresightedness of **Shri. Shankar Vanavarayar,** *Joint Correspondent* and the valuable guidance of **Dr.R.S.Kumar,** Principal, have equipped the college with excellent facilities such as well-qualified faculty, well-equipped laboratories, spacious classrooms, seminar halls, excellent sporting amenities and dedicated high-speed internet connectivity (broadband). KCT has a remarkable administrative building, "Dr.Mahalingam Vigyan Bhavan"**,** an architectural beauty and a land mark in Coimbatore.

All the programmes offered by KCT are duly approved by All India Council for Technical Education (AICTE,) New Delhi and affiliated to the Anna University, Chennai that offers **13 undergraduate (B.E/B.Tech)** and **14 post-graduate (M.E., M.Tech., MCA and MBA)** programmes, of the 27, 10 programmes are permanently affiliated by Anna University, Chennai with 6158 students and 753 Teaching and Non-Teaching Staff members. Many UG programmes have also been accredited by National Board of Accreditation (NBA) multiple number of times. KCT has also been accredited by **National Assessment and Accreditation Council (NAAC)** of the University Grants Commission (UGC) in 2009. The **ISO 9001:2008** certification further confirms the institution's commitment to educational quality. 10 of the 16 departments have been recognized as Research Centers permitting research leading to Ph.D. degree by Anna University.

With the help of well designed industry oriented curriculum, well executed innovative Teaching–Learning methodologies, transparent evaluation system and industry focused career development strategies, the college nurtures and turns up graduates who are industry ready. As an educational institution, Outcome Based Education (OBE) Process is adopted to ensure the required outcomes (knowledge, skills and attitude / behavior). With the OBE

process, curriculum has been framed with Choice Based Credit System (CBCS) that offers flexibility to learners by including open electives and industry based courses.

The Institution has well-built
centres of activities in the form of **CIBI** - Coimbatore Innovation and Business Incubator, **CEAD** - Centre of Excellence in Advanced Design, **iQUBE** – To assist in promoting ideation, projects beyond curriculum, **CHE** – Centre for Human Excellence, **CAE** – Centre for Academic Excellence (IQAC) and **KCT-TIFAC CORE** – Technology Information Forecasting and Assessment Council, Centre of Relevance & Excellence in Textile Technology & Machinery.

The institution has strong external interaction with (a) **Industries** such as Robert Bosch Engineering and Solutions Limited, Yogowava India Pvt Ltd., and Cameron India; (b) **Foreign Universities**- University of Leeds (UK), Tel Aviv University (Israel), Technical University of Liberec (Czech Republic), California State University (Northridge) and (c) **Professional bodies.** Through many **Memorandum of Understandings** (**MoU**), active organizing of conferences, workshops, Industrial training etc., happen across the academic departments.

The institution has good research culture with more than 500 research publications in International and National Journals/conferences every year and funding of about Rs. 21.5 crore from various funding agencies such as AICTE, DST, CSIR, ISRO, DRDO, DBT, TNSCST, RuTAG etc.,

At KCT, students are encouraged to participate and improve their organizing skills in extracurricular activities through clubs, sports, NCC, NSS etc. The institution has established 32 such clubs for students to organize various events with participants from colleges across the Nation. The institution has green campus environment comprising of 4600 trees of 52 species, and separate medicinal gardens with 62 types of plants. KCT has adopted waste water management system for irrigation.

KCT endeavors to become an institute of technical excellence to groom students to become through professional and constructive contributors.

PRINCIPAL

B. Profile of the Autonomous College

1. Name and address of the College

Name	KUMARAGURU COLLEGE OF TECHNOLOGY
Address	Chinnavedampatti Post Coimbatore – 641 049
City	Coimbatore **State:** Tamil Nadu
Website	www.kct.ac.in

2. For communication

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr.R.S.Kumar	Office: 0422 2661122 Residence: 0422 2661559	9487700830	(0422) 2669406	principal@kct.ac.in
Vice Principal	NA				
NAAC Steering Committee Co-ordinator	Dr. A.Vasuki	Office: 0422 2661221	9443096060		hod.ece@kct.ac.in
NAAC Working Committee Co-ordinator	Prof.S.Bhaskar	Office: 0422 2661511	9443578139		cefd@kct.ac.in

3. Status of the Autonomous College by management

i. Government ☐

ii. Private ✓

iii. Constituent College of the University ☐

4. Name of University to which the College is Affiliated

Anna University, Chennai

5. a) Date of establishment, prior to the grant of "Autonomy"

Date of establishment: 01.10.1984

Refer: Annexure B.I

b) Date of grant of "Autonomy" to the College by UGC:

(i) 2007-08 to 2012-13 for a period of six years
(Letter dated July 2008 - Refer: Annexure B.II)

(ii) 2013-14 to 2018-19 for a period of six years
(Letter dated April 2015 - Refer: Annexure B.III)

6. Type of institution:

a. By Gender

i. For Men	
ii. For Women	
iii.Co -Education	✓

b. By Shift

i. Regular	✓
ii. Day	
iii. Evening	

c. Source of funding

i. Government	
ii. Grant-in-aid	
iii. Self-financing	✓
iv. Any Other (Please Specify)	

7. Is it a recognized minority institution?

Yes [ ] No [✓]

If Yes Specify the minority status (Religious / linguistic / any other) and provide documentary evidence.

8. a) Details of UGC recognition:

Under Section	Date, Month & Year (dd\mm\yyyy)	Remarks (If any)
i. 2 (f)	15/12/2003	F.8-2.2/2002 (CPP-I) dated 15/12/2003 Refer : Annexure B.IV
ii. 12 (B)	18/12/2014	F.No.8-308/2014(CPP-I/C) dated18/12/2014 Refer: Annexure B.V

b) Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Under Section / clause	Day, Month and Year	Validity	Programme/ Institution	Sanctioned Intake	Remarks
Southern/1-2456189964/2015/EOA/ Corrigendum-1	28/04/2015	One year	B.E. Civil Engineering	120	AICTE Refer: Annexure B.VI
			B.E. Mechanical Engineering	180	
			B.E. Electrical & Electronics Engineering	120	
			B.E. Electronics & Communication Engineering	180	
			B.E. Computer Science & Engineering	120	
			B.Tech. Textile Technology	60	
			B.Tech. Information Technology	60	
			B.E. Mechatronics Engineering	60	
			B.Tech. Bio-Technology	60	
			B.Tech. Fashion Technology	60	
			B.E. Electronics & Instrumentation Engineering	60	
			B.E. Aeronautical Engineering	60	
			B.E. Automobile Engineering	60	
			M.E. Structural Engineering	18	
			M.E. Industrial Engineering	18	
			M.E. Energy Engineering	18	
			M.E. CAD / CAM	18	
			M.E. Power Electronics & Drives	18	

			M.E. Embedded Systems Technologies	18	
			M.E. Communication System	24	
			M.E. Applied Electronics	18	
			M.E. Computer Science & Engineering	24	
			M.Tech. Bio- Technology	18	
			M.Tech Apparel Technology	18	
			M.Tech Textile Technology	18	
			MCA	60	
			MBA	180	
340/ CAI/AU/2015	22/07/2015	Permanent	B.E. Civil Engineering	120	Anna University Refer: Annexure B.VII for Validity & Refer : Annexure B.VIII for sanctioned intake
		Permanent	B.E. Mechanical Engineering	180	
		Permanent	B.E. Electrical & Electronics Engineering	120	
		Permanent	B.E. Electronics & Communication Engineering	180	
		Permanent	B.E. Computer Science & Engineering	120	
		Permanent	B.Tech. Textile Technology	60	
		Permanent	B.Tech. Information Technology	60	
		Permanent	B.E. Mechatronics Engineering	60	
		Permanent	B.Tech. Bio-Technology	60	
		Permanent	B.Tech. Fashion Technology	60	
		Temporary	B.E. Electronics & Instrumentation Engineering	60	
		Temporary	B.E. Aeronautical Engineering	60	
		Temporary	B.E. Automobile Engineering	60	
		Temporary	M.E. Structural Engineering	18	
		Permanent	M.E. Industrial Engineering	18	
		Temporary	M.E. Energy Engineering	18	
		Permanent	M.E. CAD / CAM	18	
		Temporary	M.E. Power Electronics & Drives	18	
		Temporary	M.E. Embedded Systems Technologies	18	
		Temporary	M.E. Communication System	24	
		Temporary	M.E. Applied Electronics	18	

		Temporary	M.E. Computer Science & Engineering	24	
		Temporary	M.Tech. Bio- Technology	18	
		Temporary	M.Tech Apparel Technology	18	
		Temporary	M.Tech Textile Technology	18	
		Temporary	MCA	60	
		Temporary	MBA	180	

9. Has the College been recognized

a. By UGC as a "College with Potential for Excellence" (CPE)?

Yes [ ] No [✓]

If yes, date of recognition..... (dd/mm/yyyy)

b. For its contributions/ performance by any other government agency?

Yes [✓] No [ ]

If Yes, Name of the Agency..... and Date of recognition.....(dd/mm/yyyy)

Performance of College is accredited by

- National Board of Accreditation (NBA) , New Delhi

S.No	Title of the Programme	Date of Accreditation		Remarks
1	B.E. Civil Engineering	15/12/2000 12/12/2003 04/05/2007 01/07/2012	14/12/2003(3Y) 11/12/2006(3Y) 03/05/2010(3Y) 30/06/2014(2Y)	NBA expert team visit concluded on 11,12&13 December 2015 and awaiting accreditation results
2	B.E. Electrical & Electronics Engineering	15/12/2000 12/12/2003 04/05/2007 01/07/2012	14/12/2003(3Y) 11/12/2006(3Y) 03/05/2010(3Y) 30/06/2014(2Y)	
3	B.E. Electronics & Communication Engineering	15/12/2000 12/12/2003 04/05/2007 01/07/2012	14/12/2003(3Y) 11/12/2006(3Y) 03/05/2010(3Y) 30/06/2014(2Y)	
4	B.E. Computer Science & Engineering	15/12/2000 12/12/2003 04/05/2007 01/07/2012	14/12/2003(3Y) 11/12/2006(3Y) 03/05/2010(3Y) 30/06/2014(2Y)	
5	B.Tech. Information Technology	12/12/2003 04/05/2007 01/07/2012	11/12/2006(3Y) 03/05/2010(3Y) 30/06/2014(2Y)	
6	B.Tech. Textile Technology	12/12/2003 04/05/2007	11/12/2006(3Y) 03/05/2010(3Y)	Accredited

		18/09/2013	17/09/2018(5Y)	
7	B.Tech. Bio-Technology	29.05.2009 01.07.2014	28.05.2012(3Y) 30.06.2016(2Y)	Accredited
8	B.Tech. Fashion Technology	29.05.2009 01.07.2014	28.05.2012(3Y) 30.06.2019(5Y)	Accredited
9	B.E. Mechanical Engineering	15/12/2000 12/12/2003 04/05/2007	14/12/2003(3Y) 11/12/2006(3Y) 03/05/2010(3Y)	Preparing for Reaccreditation
10	B.E.Mechatronics Engineering	04/05/2007	03/05/2010(3Y)	
11	M.E Computer Science & Engineering	12/12/2003	11/12/2006(3Y)	--
12	M.E Industrial Engineering	12/12/2003	11/12/2006(3Y)	--
13	M.C.A	12/12/2003	11/12/2006(3Y)	--
14	M.E Power Electronics & Drives	19/07/2008	18/07/2011(3Y)	--

- National Assessment and Accreditation Council (NAAC),New Delhi : Accredited

10. Location of the campus and area:

Location *	Urban
Campus area in Sq.m or acres	150.02 acres
Built up area in Sq.m	98,912.74 sq.m

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Does the College have the following facilities on the campus (Tick the available facility)? In case the college has an agreement with other agencies in using such facilities provide information on the facilities covered under the agreement.

- **Auditorium** ✓

Ramanandha Adigalar Auditorium – 1174.62 sq.m

(1600 seating capacity with centralized AC)





- **Seminar complex** ✓

Four A/C seminar halls each with 220 seating capacity in addition to Department Seminar & Conference halls.





- **Sports facilities** ✓

*** Play ground**



Outdoor Games			
Foot Ball Fields	2 No.	Cricket Ground	1 No.
Basket Ball Courts	2 No.	Hand Ball Court	2 No.
Hockey Court	1 No.	400 m Track	1 No.
Ball Badminton	2 No.	Throw Ball	1 No.
Kabadi Court	2 No.	Foot Ball	1 No.
Kho-Kho Court	1 No.	Volley Ball Court	3 No.
Cricket Practice Pitch - Net	2 No.	Synthetic Tennis court	1 No.
PU Synthetic Basket Ball Court with Flood Light	1 No.		
Indoor Games			
Synthetic Badminton Court – 6 Nos.			





- **Swimming pool** ✗

- **Gymnasium** ✓

Gym Area : 139.40 sq.m





- **Hostel**

***Boys' hostel** ✓

***Girls' hostel** ✓

	No. of Rooms	Total No. of students	Dining Halls	Accommodation Capacity
Boys	521	2026	4	1488
Girls	324	1176	3	664
Staff	-	-	1	36
Total	**845**	**3202**	**8**	**2188**





- **Residential facilities**

*For teaching ✓

* For non-teaching staff ✓

- **Cafeteria**

Canteen & Bakery Shops ✓



- **Health centre**

***First aid facility**	✓
*Inpatient facility	×
*Outpatient facility	✓
*Ambulance facility	✓
*Emergency care facility	✓

Health centre staff (Arutjothi Medical Centre)

Qualified Doctor : 1 (Full time)

Qualified Nursing Staff : 1 (Full time)

Lab Technician : 1 (Full time)

Sanitary Worker : 1

Ambulance : 1

Facilities available in the Medical Centre

- Beds
- Clinical Laboratory for carrying out basic investigations
- ECG facility
- Basic medicines – drug store
- Wheelchair & Stretcher
- Life saving equipment - suction apparatus, oxygen cylinder, bag, mask, etc.
- Ambulance & Driver





- **Other facilities**

***Bank** ✓

Karur Vysya Bank



*** ATM** ✓

Karur Vysya Bank ATM & Axis Bank ATM



***Post office** ×

***Book shops** ✓



***Laundry facility is available**

- **Transport facilities**
  ***students, faculty & staff** ✓

Bus	20
Tempo Traveler	1
Swaraj Mazda (Mini Bus)	1
Mahendra Pickup Van	1
Minidor	1
Cars	14
Tractor & Trailor	1
Two Wheeler	7



For Faculty & Staff: 25% Concession on the total fare

- **Power house** ✓

  Electricity and Power Backup

  Transformer Capacity - 1500 KVA

  Generator Installed Capacity – 1500 KVA

- **Waste management facility** ✓

Sewage Treatment Plant: Plant Capacity of 3 Lakh Litres /day





Usage of Treated Effluent Water

12. Details of programmes offered by the institution: (Give data for current academic year)

Academic Year 2015-16

Sl. No	Programme Level	Name of the Programme/Course	Duration	Entry Qualification	Medium of instruction	Sanctioned/Approved students intake	No. of Students admitted
1	UG	B.E., Aeronautical Engineering	4 Years	*HSC or Diploma for lateral entry admission	English	60	59
		B.E., Automobile Engineering				60	62
		B.Tech., Bio Technology				60	60
		B.E., Civil Engineering				120	111
		B.E., Computer Science & Engineering				120	121
		B.E., Electronics and Communication Engineering				180	179
		B.E., Electrical and Electronics Engineering				120	118
		B.E., Electronics and Instrumentation Engineering				60	57
		B.Tech., Fashion Technology				60	58
		B.Tech., Information Technology				60	59
		B.E., Mechatronics Engineering				60	60
		B.E., Mechanical Engineering				180	180
		B.Tech., Textile Technology				60	61
2.	PG	M.E. Structural Engineering	2Years	*B.E/ B.TECH Refer : Annexure B.IX	English	18	18
		M.E. Industrial Engineering				18	11
		M.E. Energy Engineering				18	9
		M.E. CAD / CAM				18	9
		M.E. Power Electronics & Drives				18	13
		M.E. Embedded Systems				18	13

		Technologies					
		M.E. Communication System				24	14
		M.E. Applied Electronics				18	13
		M.E. Computer Science & Engineering				24	19
		M.Tech. Bio-Technology	2 Years			18	7
		M.Tech Apparel Technology				18	--
		M.Tech Textile Technology				18	--
		MBA	2Years	*Any Degree Refer : Annexure B.IX	English	180	180
		MCA	3Years			60	47
3	Integrated Masters	NA					
4	M.Phil	NA					
5	Ph.D (Part time)	Civil Engineering	As per Regulations of Anna Univ. Chennai	PG Degree as per Regulation of Anna University, Chennai	English	NA	6
		Mechanical Engineering					19
		Mechatronics Engineering					-
		Electronics and Communication Engineering					11
		Computer Science and Engineering					3
		Bio Technology					10
		Textile Technology					31
		Fashion Technology					10
		Chemistry					5
		Management Studies					3
6	Integrated Ph.D	NA					
7	Certificate						
8	Diploma						
9	PG Diploma						

10	Any other Please Specify	

*As per DOTE, Government of TamilNadu and Anna University, Chennai Norms.

13. Does the institution offer self- financed programmes?

Yes ✓ No

If Yes, how many?

Number of Programmes offered: 27

14. Whether new programmes have been introduced during the last five years?

Yes ✓ No

If yes, **Number of Programme**: 1 (B.E Automobile Engineering during 2011-2012)

15. List the Departments: (Do not list facilities like Library, Physical Education as departments unless these are teaching departments and offer programmes to students)

***Admission details for Academic Year 2015 – 2016 (as on 01.10.2015)**

Particulars	Number	Number of Students
Science Under Graduate Post Graduate Research centre(s)	NA	
Arts Under Graduate Post Graduate Research centre(s)	NA	
Commerce Under Graduate Post Graduate Research centre(s)	NA	
Any Other **Engineering and Technology** Under Graduate(B.E/B.Tech)	13	5158
Post Graduate (M.E/M.Tech)	12	328
M.C.A &M.B.A	2	672
Research centre(s)	10	88

16. Are there any UG and / or PG programmes offered by the college, which are not covered under Autonomous status of UGC? Give details

All UG and PG programmes are covered under Autonomous status.

17. Number of Programmes offered under (Programme means a degree course like BA, MA, B.Sc, M.Sc, B.Com....etc)

a) Annual system	
b) Semester system	27
c) Trimester system	

18. Number of programmes with

a) Choice based credit system	27
b) Inter/Multidisciplinary Approach	
c) Any other (Specify)	

19. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

a) Including the salary component	Rs. 89, 332
b) Excluding the salary component	Rs. 49, 745

20. Does the college have a department of Teacher Education offering NCTE recognized degree programmes in Education?

Yes [ ] No [✓]

If Yes,

a) How many years of standing does the department have? …… years

b) NCTE recognition details (if applicable)
Notification No.....
Date: ..... (dd/mm/yyyy)

c) Is the department opting for assessment and accreditation separately?

Yes [ ] No [ ]

21. Does the college have a Teaching department of Physical Education offering NCTE recognized degree programmes in Physical Education?

Yes [ ] No [✓]

If yes,

a. How many years of standing does the department have?
.....Years

b. NCTE recognition details (if applicable)
Notification No.: .....
Date: ..... (dd/mm/yyyy)

c. Is the department opting for assessment and accreditation separately?

Yes [ ] No [ ]

22. Whether the College is offering Professional programme?

Yes [✓] No [ ]

Enclosed approval/recognition details issued by the statutory body governing the programme

Refer: Annexure B.VI (AICTE Certification 2015-16)

23. Has the college been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon.

Yes, the college is reviewed by AICTE, UGC and Anna University, Chennai.

- AICTE, New Delhi for Approval of Programmes (Every Year)
- UGC, New Delhi for Granting Autonomy (Once in Six Years)
- Anna University, Chennai for Affiliation

Anna University, Chennai has granted Permanent Affiliation for 10 UG programmes. These programmes will be reviewed once in three years. Other 17 Programmes of the college are reviewed every year by Anna University, Chennai for extension of Affiliation.

Refer: Annexure B.VII (Anna University Certification)

Refer: Annexure B.VI (AICTE Certification 2015-16)

24. Number of teaching and non-teaching positions in the College

Academic Year: 2015-16

Positions	Teaching Faculty						Non-teaching staff		Technical Staff	
	Professor		Associate Professor		Assistant Professor					
	M	F	M	F	M	F	M	F	M	F
Sanctioned by the UGC/University/State government	-	-	-	-	-	-	-	-	-	-
Recruited										
Yet to Recruit										
Sanctioned by the Management/Society or other authorized bodies	21	15	28	24	173	134	186	53	77	41
Recruited	21	15	28	24	173	134	186	53	77	41
Yet to Recruit										

25. Qualifications of the Teaching Staff

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
D.Sc./D.Litt.							
Ph.D	17	15	15	12	20	12	90
M.Phil	--	--	--	--	18	38	56
PG	4	0	13	12	135	84	249
Temporary Teachers NIL							
Ph.D							
M.Phil							
PG							
Part Time Teachers NIL							
Ph.D							
M.Phil							
PG							

26. Number of Visiting Faculty / Guest Faculty engaged by the College

Based on requirement Guest faculty are engaged from time to time.

27. Students enrolled in the college during the current academic year, with the following details:

Academic Year : (2015-2016)

Students	UG		PG		Integrated Masters		M.Phil		Ph.D		Integrated Ph.D		D.Litt/ D.SC		Certificate		Diploma		PG Diploma	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
From the State where the College is located	774 + 218*	394 +35*	192 +42*	154 +41*					3	1										
From other states of India	9	1	4	3					--	--										
NRI Students	--	--	--	--					--	--										
Foreign Students	--	--	--	--					--	--										
Total	1001	430	238	198					3	1										

* represents lateral entry students

28. Dropout rate in UG and PG (average for the last two batches)

UG 2.05% PG 0.5 %

29. Number of working days during the last academic year (2014 -2015)

268 days

30. Number of teaching days during the last academic year (2014 -2015)

180 days

31. Is the college registered as a study centre for offering distance education programmes for any university?

Yes ✓ No

If yes, provide the

a. Name of the University

Anna University, Chennai

b. Is it recognized by the Distance Education Council?

Yes [✓] No [ ]

c. Indicate the number of Programmes offered [1 / MBA]

32. Provide Teacher –student ratio for each of the programme / course offered

S. No.	Course / Branch	Teacher -student ratio
1	B.E. Aeronautical Engineering	1:15
2	B.E. Automobile Engineering	1:15
3	B.Tech. Bio-Technology	1:15
4	B.E. Civil Engineering	1:13
5	B.E. Computer Science & Engineering	1:13
6	B.E. Electronics & Communication Engineering	1:14
7	B.E. Electrical & Electronics Engineering	1:12
8	B.E. Electronics & Instrumentation Engineering	1:15
9	B.Tech. Fashion Technology	1:15
10	B.Tech. Information Technology	1:15
11	B.E. Mechanical Engineering	1:15
12	B.E. Mechatronics Engineering	1:15
13	B.Tech. Textile Technology	1:15
14	M.E. Structural Engineering	1:12
15	M.E. Industrial Engineering	1:12
16	M.E. Energy Engineering	1:12
17	M.E. CAD / CAM	1:12
18	M.E. Power Electronics & Drives	1:12
19	M.E. Embedded Systems Technologies	1:12
20	M.E. Communication System	1:12
21	M.E. Applied Electronics	1:12
22	M.E. Computer Science & Engineering	1:10
23	M.Tech. Bio- Technology	1:9
24	M.Tech Apparel Technology	1:12
25	M.Tech Textile Technology	1:6
26	MBA	1:15
27	MCA	1:17

33. Is the College applying for?

Accreditation: Cycle 1 [ ] **Cycle 2** [✓] **Cycle 3** [ ] **Cycle 4** [ ]

Re-Assessment: [ ]

34. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Cycle 1:29/01/2009 Accreditation outcome /results: 2.64 CGPA

***Kindly enclose copy of accreditation certificate(s) and peer team report(s)**

Refer: Annexure B.X (Copy of accreditation certificate)

Refer: Annexure B.XI (Peer team report)

Cycle 1 refers to first accreditation; Cycle 2 and beyond refers to reaccreditation

35. a. Date of establishment of Internal Quality Assurance Cell (IQAC)

September 2009

b. Dates of submission of Annual Quality Assurance Reports (AQARs)

(i) AQAR for year 2010 - 2011 On 10/04/2012

(ii) AQAR for year 2011 -2012 On 25/05/2013

(iii) AQAR for year 2012 - 2013 On 05/03/2014

(iv) AQAR for year 2013 - 2014 On 11/06/2015

(v) AQAR for year 2014 – 2015 on 19/03/2016

36. Any other relevant data, the college would like to include. (Not exceeding one page)

The Department of Human Excellence strives to inculcate values in students helping them succeed in global environment without losing inner poise and the intrinsic joy of life. This is facilitated by **Swami Vivekananda Study Centre**, which stands as a symbol and authority to the youth of today by creating employable youth and enlightened citizens. The **Mahatma Gandhi Study Centre** aims to inculcate Gandhian thoughts in younger minds.

Technology Business Incubator (TBI) is established in this institution with the grant of Rs. 5 Crores from Management and Rs. 10 Crores from Government under section 25(C), called Coimbatore Innovations and Business Incubator (CIBI) offers a platform for students to discuss their ideas and get it incubated as a start up business model.

CLUBS:

- Kumaraguru Centre for **FINE ARTS** is a platform to educate ,train, encourage, aspiring students in music, dance, literature, painting, photography and other subjects related to fine arts and crafts by conducting regular classes.
- **GANDHIAN YOUTH MOVEMENT (GYM)** inculcates Gandhian thoughts and principles in the minds of Youth.
- **KCT INNOVATORS CLUB** is a platform for the first year students to pitch their ideas and shape them to embark engineering.
- **SAHITYA**-Literary Club aims to discover the students with a penchant for the English Language and Literature.
- **LEAGUE FOR ENTREPRENEURIAL EMPOWERMENT AND DEVELOPMENT (LEED)** aims to kindle the spirit of entrepreneurship through holistic learning-by-doing.
- **KCT HAASYA CLUB** aims to cultivate sense of humour among students and staff.
- **NAMADHU PANGU** is an integrated community development initiative of KCT strives towards enhancing the quality of life of people dwelling in the neighbouring villages.
- **TAMIL MANDRAM** aims to nurture the students' interest for Tamil language.
- **NATIONAL SERVICE SCHEME (NSS)** was started in 1988. Various NSS programmes are organized by the students and teachers to serve community.
- **NATIONAL CADET CORPS (NCC)** gives basic military training in small arms and parades.
- **ROAD SAFETY PATROL (RSP)** was initiated in the year 2011. It aims to create awareness about road safety regulations among students.
- **VOLUNTARY BLOOD DONORS CLUB** serves the life of people by donating blood voluntarily at free of cost.
- **ROTARACT CLUB OF KCT** is now stepping into 23rd year successfully with the motto to enlighten everyone about Rotaract and involving them in various services to community.
- **RED RIBBON CLUB** aims at harnessing the potential of the youth by equipping them with correct information on mental health and positive health behaviour.

- **NATURE CLUB** aims at taking development hand in hand with nature.
- **YOUTH RED CROSS** is one of the avenues available for the students to indulge themselves in social activities.
- **QUBATE** is a meeting place for all quizzers to come together and enhance their skills and knowledge.
- **DANCE CLUB** offers an arena to students who are interested in various dance forms.
- **MUSIC CLUB OF KCT** is a platform for the passionate and budding musicians to showcase their talents.
- **VARNAM** aims to discover the thrust of creativity.
- **iQube** is a KCT Students Initiative – Technology Incubation Centre aims at people working on their ideas to see it as a product.
- **STUDIO KCT** is the path to ponder into photography.
- **NAMMA CAFE** is an outcome of entrepreneurial spirit of the young Technopreneurs of LEED. It ventures by the students build up exclusively to learn the various aspects of operating business.
- **YUGAM** is an intercollegiate techno-cultural fest aims to create an era where dreams, hope, passion and ambition are given to bring up students talent.



Mahatma Gandhi Study Centre



Swami Vivekananda Study Centre



Yugam Function



Motivational Speech by Mr.D.P.Singh in Sakthi Yugam

EXECUTIVE SUMMARY

Genesis:

Kumaraguru College of Technology (KCT) is one of the premiere technical institutions in the State of Tamil Nadu. Established in 1984, by the Ramanandha Adigalar Foundation, a charitable trust of the renowned Sakthi Group of Companies, Coimbatore, the institution has been growing from strength to strength through its illustrious educational services to the aspiring student community, as envisioned by its Founder, Padmabhushan Dr.N.Mahalingam.

Motto:

The vision of the Founder of KCT, Arutchelvar Dr.N.Mahalingam that 'education should provide not only knowledge and skills to students for making them employable but also should inculcate ethics and values to make them socially conscious and service minded professionals' has been manifested in all activities of KCT. The motto," Character is life' is one of the standing examples of this manifestation and it has been integrated with the campus life of the young minds who comprise of more than 22000 strong alumni and 6000 plus students, currently pursuing various programmes in the campus

Governance and Leadership:

In line with the vision of the Founder, KCT is bestowed with the illustrious leadership of Dr.B.K. Krishnaraj Vanavarayar, Chairman, able guidance of Sri.M.Balasubramniam, Correspondent and the dynamic administration of Sri.Shankar Vanavarayar, Joint Correspondent. The Management is actively engaged in the progress of the institution.

Progress:

Since its inception in 1984, with three UG programmes, KCT has progressed to offer 13 UG programmes and 14 PG programmes including MBA and MCA. All programmes offered by the institution are duly approved by the All India Council for Technical Education (AICTE) and affiliated to Anna University, Chennai. Further ten programmes of the College are permanently affiliated to Anna University, Chennai which has recognized 10 departments as 'Collaborative Research Centres' for offering research programmes leading to Ph.D.

Academic recognitions / accreditations:

After more than two decades of fruitful services, KCT was conferred with 'Autonomous' status by the University Grants Commission (UGC), New Delhi in 2007. Following this, KCT was accredited by the National Assessment and Accreditation Council (NAAC) in 2009. Most of the eligible programmes of KCT have been accredited by the National Board of Accreditation (NBA) and the college has been an ISO certified institution, since 2002. The UGC has granted extension of autonomy to the institution for another term of six years up to 2018-19. Yet another feather in the cap is the recognition of KCT, under section 12 (B) of UGC Act, 1956, by the UGC in 2014.

Infrastructure:

The campus, located at the outskirts of Coimbatore, the Manchester of South India and a dynamic industrial hub, is spread over 150 acres of serene and green space with more than 4600 trees, providing a true environment friendly ambience for the budding professionals, teachers and staff. All necessary infrastructural facilities have been established to support the academic and co-academic activities in the campus. The total built-up area is 98,912.74 sq.m.

- Hostels for Boys with a capacity of 2155
- Hostels for Girls with a capacity of 1288
- RO Water Plant with a capacity of 3 Lakh litres per day
- Power backup facility with a capacity of 1500 KVA
- 1800 seater air-conditioned Auditorium
- Four air-conditioned Seminar Halls, each with a capacity 220 seats
- 21 acres of Play ground with well laid courts / grounds
- Medical Centre,
- Two ATMs and one Bank
- State-of-the-art GYM (KRAFT)
- Meditation Hall
- Cafeteria (KORE)
- Staff Quarters

- 256 Mbps Internet bandwidth connectivity and Wi-Fi facility

are some of the major infrastructural facilities

Human Resource:

The strength of human Resource comprises of 395 well qualified and experienced Faculty members, 164 non-teaching staff and 196 administrative staff members. Of the 395 faculty members, 85are Ph.D.s and 150 are pursuing Ph.D. Besides the academic departments, exclusive, well qualified and experience faculty member / instructors are available for the Centre for Human Excellence (CHE) which imparts value education, ethics, yoga and meditation to students and staff.

The Autonomy, granted to KCT, has enabled continuous upgradation of the curriculum and syllabus in 2009, 2013, 2014 and 2015. The curriculum and syllabus introduced in 2014 – 15 incorporated outcome based education and the Choice Based Credit System (CBCS) based new regulation have been introduced inn 2015-16. Many constructive reforms have been integrated to the teaching and evaluation processes ensuring quality throughout.

The College has been active in Research and Development and consultancy activities. The ongoing research projects, funded proposals sent to funding agencies, publication of papers in national and international journals by faculty and students etc. would display the strength and extent of the activities.

An active Training and Placement cell helps and empowers the students to get placed in campus interviews, admission in reputed institution in India and Abroad, besides turning out entrepreneurs also.

The 28 clubs and forums and the sports facilities available in the campus provide ample opportunity for students to involve in activities of their passion and demonstrate their strength and groom themselves into an all-round personality.

As an institution in its 32nd year of service, KCT stands tall and committed in providing a holistic academic experience for the students, helping them to realize their dreams and aspirations through numerous student-centric initiatives and above all in ensuring an ecosystem conducive for active learning and great pursuits.

Milestones since last accreditation of NAAC in 2009

- 2015 – Extension of Autonomy by UGC
- 2015 - International Collaboration with University of Leeds, UK and Tel Aviv University, Israel
- 2015 - Ranked one among the top 25 institutions in the State with a AAA+ rating by Careers 360, a leading Magazine on Higher Education
- 2015 – Regulation - 2015 (CBCS & OBE)
- 2014 – Extension of ISO-9001: 2008 certification
- 2014- SIIP 2014 Award for Sustainable Institute Industry Partnership from the Society for Educational & Entrepreneurship Development (SEED)
- 2014– Regulation – 2014 (OBE)
- 2014 – B.Tech. Fashion Technology programme accredited for 5 years underTier I
- 2014 – UGC 12 (B) status
- 2013 - IEEE International Workshop on Women in Electro Magnetics Antenna Design, Wave Propagation and Applications
- 2011 - Inauguration of Swami Vivekananda Study Centre

Major Centres of Activities established since 2009:

- 2016 Advances Lab on 'Assistive Technologies' in collaboration with INTEL
- 2015 MoU between KCT and Indian Textile Accessories & Machinery Manufacturers Association (ITAMMA), Mumbai to establish a CFC for Textile Engineering Industry under the Cluster Development Programme (MSE-CDP) of (MSME), Government of India. (in progress)
- 2015 Advance d Lab in Collaboration with YOKOGAWA INDIA Ltd.
- 2014 CIBI - Coimbatore Innovation and Business Incubator sponsored by DST, Govt. of India
- 2013 CEAD - Centre of Excellence in Advanced Design
- 2013 *i*QUBE - Assist in promoting ideation, projects beyond curriculum
- 2010 IIPC - Industry Institute Partnership Cell
- 2009 CHE – Centre for Human Excellence
- 2009 CAE – Centre for Academic Excellence (IQAC)

SWOC Analysis of the Institution

Strengths:

1. Competent faculty with the needful qualification, attitude and drive.
2. A rich curriculum and syllabus enabled by the autonomous status of the institution.
3. OBE and CBCS Regulations that provide ample opportunity for students to learn with evaluation transparency.
4. The institution with a system and process drives approach in all its academic and related activities with a "Center for Academic Excellence" to develop and train faculty in the developed systems.
5. Multiple clubs that enable holistic development of students.
6. A department of Human Excellence to groom the attitude part of students to "Empower the Youth to Enrich the Nation" and make them as better citizens.
7. The concept of "assessment leads to learning" has been used for developing assignment patterns that enables students to work in group. The question paper patterns of the current and previous two regulations have minimum choices and adopt Bloom's taxonomy.
8. The "Management Information Systems – MIS" software developed by the institution takes care of maintaining details of attendance, test marks, assignment marks and the like for students. It also takes care of maintaining leave records of faculty.
9. "Office of Students Affairs (OSA)" is a facility for students to voice their opinion and issues. OSA supports students in all activities for their growth.
10. An environment that supports a culture of research with a large population of faculty either completed or pursuing Ph.D, and ably supported by the 12(B) status granted by UGC.
11. Exclusive facilities such as GARAGE, iQube, CEAD, TBI (CIBI) and the like to motivate and involve students in design competitions.
12. Strong academic mentoring and personal counseling system.
13. Excellent input quality of students and high campus placement.

Weakness:

- A section of students with good academic records at school level but from a rout learning school back ground.
- Moderate research and consultancy projects with social impact.

- Lack of interest by students in taking up competitive examinations due to excellent campus placement.

Opportunities:

- Creation of "Centers of Excellence" and "Skills Development Centers" in all departments as the institution is operating in an industrial hub.
- To collaborate with industries, institution and universities inside and outside India for joint research and continuing education.
- Promote use of innovative teaching and learning strategies to motivate the students to learn better.

Challenges:

- Getting funded projects and consultancy.
- Training students in English proficiency as a significant section of students lack communication skills in English.
- Faculty retention due to the existence of a large number of engineering institutions.
- Promoting research leading to patents.
- Developing a technology based ecosystem that enables faculty to balance their academic, administrative and research work.
- To groom students to get placed in core companies.

CRITERION I: CURRICULAR ASPECTS

Kumaraguru College of Technology (KCT) was awarded accreditation by NAAC for the first time on 29-01-2009 for a period of five years. After securing an extension for its autonomous status, the Institution is submitting the Self Study Report (SSR) for re-accreditation to NAAC. Further, KCT has been included under sections 2(f) and 12(B) of the UGC Act 1956.

The Institution was established in 1984 under the auspices of Ramanandha Adigalar Foundation, a charitable Educational Trust of Sakthi Group, to provide educational service to the society. Padmabushan Dr.N.Mahalingam was the Founder Chairman of KCT. In accordance with the motto of the College "CHARACTER IS LIFE", it provides not only Engineering and Technology Education but also Social Education combined with Human Excellence.

The Sakthi Group is an Indian Conglomerate Company with operations in India, China, Europe, Middle East and USA. The group has stake in sugar, dairy, industrial alcohol, automobile distribution and components, transportation, energy, textiles, IT, education and health care. The group has dealerships in automobiles for leading brands of vehicles in various places in South India. The group is also involved in petrol pump operations, Indane LPG distribution and the sale of consumer products and electronics. It also has its imprint in textiles also with Sri Sakthi Textiles Ltd.

The Institution has faculty strength of 395 of which 222 are men and 173 are women. All faculty are PG qualified, a good proportion of faculty are pursuing Ph.D. and considerable number of faculty are Ph.D. holders. The total strength of technical staff is 162 of which 97 are men and 65 are women. The total administrative staff strength is 196 of which 167 are men and 29 are women. The total student strength is 6158 of which 4002 are boys and 2156 are girls. It is an Autonomous Institution affiliated to Anna University Chennai, which offers 13 Under Graduate (B.E., B.Tech.) and 14 Post Graduate (M.E., M.Tech ., MCA and MBA) programmes of study. All the above programmes have the approval of the All India Council for Technical Education (AICTE). Ten of the 16 academic departments have been recognized as research centers for doctorial research programme under Anna University, Chennai. Additional academic programmes and courses are fashioned in accordance with the National and Global needs. Consequently, several companies visit the campus for placements regularly.

The Institution is ISO 9001:2008 certified to maintain the quality of systems and procedures. The Centre for Academic Excellence (same as IQAC) is monitoring the academic activities of the college. The Autonomous status is extended by University Grants Commission (UGC) till 2018-2019. Many of the programmes have been accredited by NBA multiple times. Feedbacks given by these bodies are taken into account for maintaining and improving the quality.

India has become a permanent member of Washington Accord which stipulates Outcome Based Education (OBE). KCT has adopted OBE from 2014-2015 to ensure that the students of the programmes acquire the requisite knowledge, skills and attitude / behavioral outcomes. The curriculum is framed with the active participation of experts and other stakeholders to meet the current professional and personal needs of the industry and society. The curriculum is designed to instil confidence, impart technical knowledge with ethical values, inter disciplinary learning, industry need based learning, problem solving capacity and analytical skills. The curriculum for each programme comprises of theory and practical courses. These courses focus on imparting theoretical knowledge and practical skills, industrial training, internships, value addition, presentation skills, group discussions, projects, etc. Revision in curriculum and syllabus is done periodically to meet the changing industrial/societal need. Statutory bodies like Board of Studies, Standing Committee and Academic Council are involved in the revision of regulations, curriculum and syllabus.

The curriculum and syllabus incorporated the OBE process in regulation 2014. Subsequently, in compliance to the UGC and Anna University directives another new regulation adopting the Choice Based Credit System (CBCS) has been introduced from acedamic year 2015-16. The CBCS offers flexibility to the learners by including inter disciplinary electives and industry based courses. Further CBCS offers the right blend of Professional Core and Electives, Engineering and Basic Science, Arts and Humanities courses to facilitate the learners to graduate with intended outcomes. It facilitates the students to learn at their own pace and acquire additional credits than required also.



Administrative Building (Dr. N. Mahalingam Vigyan Bhavan)

1.1 Curriculum Design and Development

1.1.1 How are the Institutional Vision / Mission reflected in the academic programmes of the College?

The Institutional Vision and Mission are stated below:

VISION	MISSION
The Vision of the college is to become a Technical University of International Standards through continuous improvement.	Kumaraguru College of Technology (KCT) is committed to providing quality Education and Training in Engineering and Technology to prepare students for life and work equipping them to contribute to the technological, economic and social development of India. The College pursues excellence in providing training to develop a sense of professional responsibility, social and cultural awareness and set students on the path to leadership.

Based on the Institutional Vision / Mission, the departmental Vision and Mission the Program Educational Objectives (PEOs) are evolved. Program Outcomes (POs) are established in consultation with stakeholders including alumni and industry people, adhering to the Graduate Attributes (GAs) defined by NBA. The guidelines given by American Professional Societies such as American Society for Civil Engineers (ASCE), American Society for Mechanical Engineers (ASME), Institute of Electricals and Electronics Engineering (IEEE) etc., have been taken into account in designing the curriculum and syllabus of the respective programmes.

The college offers human excellence courses exclusively in the curriculum from first to fourth semester (one course per semester). Credits will be indicated for these courses in the grade sheet and will be considered for computing CGPA. Thus the student's attitude towards professional and social responsibility is enhanced.

The Department of Human Excellence was started in the month of September, 2009 with a mission to impart knowledge about Indian culture, ethics, values and spiritual principles in a modern idiom to the youth by employing a scientific and rational approach. It helps the youth to unfold their hidden potentialities and achieve excellence in every field of life. In short, it is an effective human resource development program which can lead to total human fulfilment. Human excellence is indeed the right prescription for the Indian youth

today who wish to succeed in a modern, competitive and global environment without losing inner poise and the intrinsic joy of life.

Department of Human Excellence has two major study centers under its auspice: Swami Vivekananda Study Centre and Mahatma Gandhi Study Centre. Students are trained through value added programmes such as technical seminar, presentation, Group discussion, project, technical paper presentation etc. The faculty leadership quality is improved by the training provided through Centre for Academic Excellence (CAE) and KLDA.

The Institutional Vision and Mission of the college are imbibed in the academic programmes through the following aspects:

I.Teaching & Learning

II. Entrepreneurship and Employment

III. Research

Teaching & Learning:

The academic programs offered by the Institution are planned to meet the requirements of the society, industry and also higher education. The Curriculum and Syllabus are devised in line with the transformation in emerging technologies and are revised to incorporate the most recent developments. Modern teaching methods are also adapted in order to augment the teaching learning process through Center for Academic Excellence (CAE).

The Center for Academic Excellence was brought into existence during September 2009. The activities of the center can broadly be put as follows.

- To develop systems that will enable standardization of academic activity that is essential for sustained academic growth
- To conduct academic audits to ensure that the departments comply with the established academic standards
- Organize and impart training to the faculty to develop their capabilities for quality academic delivery in line with NBA requirements
- Provide academic orientation and training to students for enhancing their employability

Standardization Activities

Following are the standardization activities that have been Institutionalized through formats:

- Preparation of material for handling theory classes.
- Preparation of laboratory manuals and work books.
- The role of class advisors and ward counselors.

Academic Audit

In order to ensure the academic standards, all departments monitored by academic audit in every semester and these are ensured by the Principal and the Center for Academic Excellence.

Training

Training planned with a view to organize and impart skills to the faculty to develop their capabilities for quality academic delivery, the Institution provides academic orientation, soft skills and placement training to students for enhancing their employability.

Standardization for OBE Process

To achieve the objective of the OBE process, the program specific documents listed have been standardized and the scrutiny of documents is conducted through the Center for Academic Excellence.

In order to groom the students as quality professionals, the college has been conducting student chapters of professional bodies like IEEE, ISTE, IETE, Institution of Engineers (India), Society of Automotive Engineers, Students for the exploration and development of space and International society of Automation. Social responsibilities and social awareness are encouraged among students by offering courses like Environmental Science, Economics and Management for Engineers, Total Quality Management, Professional Ethics Human Values, Epics and Product development. These strategies have helped the Institution to march forward to provide quality Education and Training in Engineering and Technology and to become a Technical University of International Standards.

Entrepreneurship and Employment

The college is committed to provide technical training to the students through the following canters and facilities to get placement or to become an entrepreneur:

a. Placement and Training Cell
b. Language Laboratory
c. Industry Institute Partnership Cell
d. Entrepreneurship Development Cell

Placement and Training Cell

Placement and Training cell has been functioning in our college campus which interacts with the premier organizations in order to arrange campus interviews for placement of final year students. The placement cell also arranges in-plant training for students in industries. The students visit industries and companies to gain first-hand work experience of various industrial activities.

Language Laboratory

The language laboratory facilitates students with development of verbal and communication skills by providing them a frame work which enriches employability and leadership. A holistic development of personality through communicative competence of the technocrats is the primary vision of the Language Laboratory. The state of the art computerized language laboratory of KCT (CALL HUB) demonstrates unique strategy of expertise in teaching English by enhancing the communication skills of the technocrats. The CALL HUB provides the opportunity to learn a language with the help of technology and technical manpower.

The CALL HUB, the state of the art language laboratory comprises:

- Seventy five Computers connected by LAN with the master console & Headphones for pronunciation & listening practice
- S-Net, Clarity, Report Writer, Business Letters are the software used from Young India Films

There are several programmed lessons and self-study language packages available in the CALL HUB to enhance the communicative competence of the technocrats. The following is the list of language programmes that are used in our language laboratory:

- IELTS, GRE & TOEFL

- Programmed lesson on Spoken English
- Lessons on Telephonic Conversations
- Body Language & Interview Etiquette
- Business Communication
- Pronunciation Power & Vocabulary Builder etc.

The CALL HUB is established to facilitate students' learning experience by providing adequate exposure to language tutorials. The students are also exposed to web resources that edify commitment in teaching several foreign languages. The atmosphere created in the language laboratory and the regular sessions help to develop the required communicative skills.

With these being acquired in a virtual environment, a student can be successful both locally as well as globally with a more satisfying personality and professional career.




Call Hub

BEC Course:

The main objective of the Business English Certificate (BEC) is to help students and faculty develop a wide variety of communication skills in English which will allow them to handle challenging situations in a professional manner. It addresses grammatical skills as well as improves business English vocabulary. The students and faculty gain confidence and acquire the necessary skills to cope up with difficult situations in the workplace in proper business English. The students and faculty are assessed.

Industry Institute Partnership Cell

The Industry Institute Partnership Cell (IIPC) synergizes the academic activities of the Institution with the needs of all types of industries with strategic planning and

implementation. In addition, it offers the courses on the latest developments in engineering and technology to practitioners:

- It is used for carrying out development activities in collaboration with industries and governments.
- To provide in-plant training to students and faculty members at industries
- For arranging industry and public sector sponsored project assignments for students.

Entrepreneurship Development Cell (EDC)

EDC at KCT is functioning through LEED (League for Entrepreneurial Empowerment and Development). LEED is an innovative initiative of the young and energetic engineers of KCT. The initiative aims at bringing out the entrepreneurial spirit among the students.



Workshop on Entrepreneurship Development conducted in Feb. 2016

Research

The research scholars, PG and UG students are benefitted through the following centres and facilities to support their research activities:

a. Centre of Excellence in Advanced Design

b. iQube

c. TIFAC CORE

d. Structural Technology Centre

Centre of Excellence in Advanced Design (CEAD)

CEAD is established in KCT to bring "Science to Engineering" culture using "High Performance Computing" to address the technological needs of the country through the following objectives:

- To aid Industry in modelling, visualization, linear &non linear analysis, optimisation, computational fluid dynamics, multi-body dynamics, crash analysis, fatigue life analysis and manufacturing solutions.
- Use of modern design tools for basic sciences and make the students ready for industry absorption and to inculcate Research and Development among students and faculty.

CEAD has advanced Computer Aided Engineering tools for non linear analysis, fluid-structure interactions, crash analysis, optimisation, lifting and manufacturing solutions. CEAD has advanced CAE software like Altair Hyper works, ANSYS Mechanical, CFD, HF & EM and MSC Nastran, Patran& Adams. CEAD offers an excellent design experience through project based learning and research & consultancy services to industry through a pool of experienced faculty and advanced infrastructure. CEAD has MOU with several industries like Dynaspede, Cameron, Thermax, Altair, Pricol, Forbes Marshal etc, which will facilitate the researchers and the industries to interact and collaborate on their needs.
CEAD is also conducting a One Year Post Graduate Diploma Program in Design Engineering for Oil & Gas Industry exclusively for Cameron Engineer trainees.





Centre of Excellence in Advanced Design

Cameron International Corporation (formerly Cooper Cameron Corporation, CCC) is a company and a global solution provider of pressure control, processing, flow control and compression systems as well as project management and aftermarket services for oil and gas and process industries. It employs approximately 23,000 people and is headquartered in

Houston, Texas, US. During 2006, Cooper Cameron was officially renamed "Cameron." Cameron is organized into the following divisions:

- Drilling & Production Systems.
- Valves & Measurement
- Measurement Systems
- Petreco Process Systems
- Compression system

iQube

It is a Technology Incubation Centre at KCT that aims at people working on their ideas to see it as a product. iQube is specially meant for students to improve and excel their technical experience. It has an R & D laboratory where one can try experiment their idea with the available resources in the laboratory. For outstanding Ideas and Projects, one would even get funded to complete a prototype model. It further aims at mentoring and training the interested ones with the necessary and updated technology.



iQube

KCT-TIFAC CORE

KCT-TIFAC CORE is the first centre dedicated to the textile / apparel sector in India. While the Institution provides the site and some initial requirements, the government brings in resources adequate enough to overcome the sub-criticality and the user organizations bring in resources as well as relevance to the efforts. Substantial financial resources are pooled towards realizing excellence in focused areas of intense relevance to the Indian industry. CORE addresses post-graduate education, vocational training and R&D requirements of the industries.

Structural Technology Centre

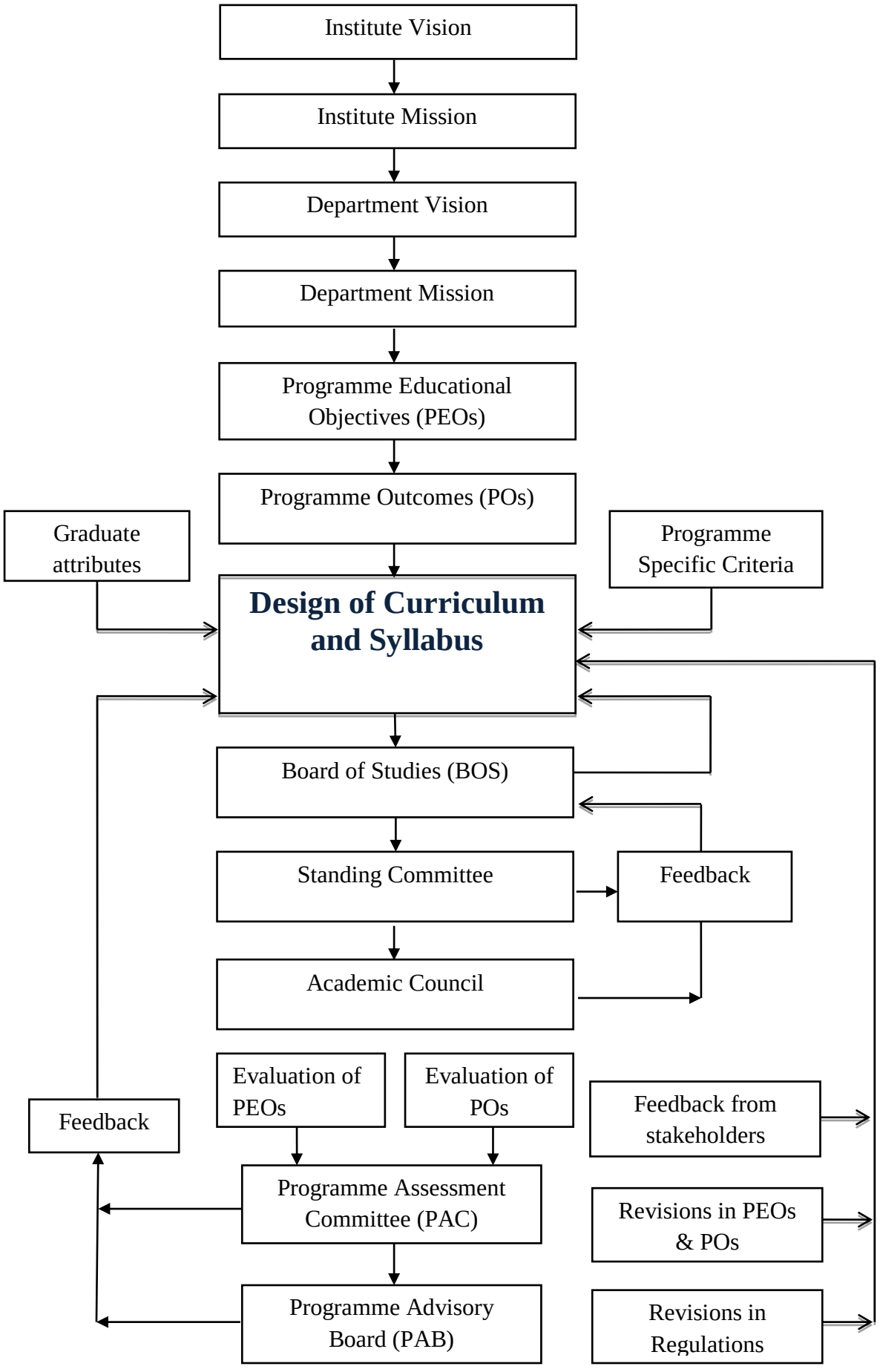
The Structural Technology Centre (STC) has been established in the year 2003 with a view to take up Testing, Research and Consultancy projects in the areas of building materials for construction and structures. The STC aims to provide thrust to support infrastructure development and to enhance local technological capabilities through the use of improved new materials and versatile construction technologies. The centre has been systematically carrying out focused consultancy work that is of strategic importance to the construction industry. The Centre also promotes testing services for building materials as per codal provisions.



Structural Technology Centre

1.1.2 Describe the mechanism used in the design and development of the curriculum? Give details on the process. (Need Assessment, Feedback, etc)

Design and development of curriculum and syllabus is carried out in the department, in alignment with the Institute and Department Vision, Mission, PEOs and POs of the department. The Programme Specific Criteria (PSC), the Graduate Attributes (GAs), needs of the society and in relevance to the regional and national developmental requirements. Meetings are convened by the module coordinators along with faculty experts to frame the syllabi for the courses in the relevant modules. Feedback obtained from students, parents, alumni, industry experts are also considered. The prepared curriculum and syllabus is presented to the members of Board of Studies (BOS). After detailed discussions by the BOS members (internal and external) during the BOS meeting, the obtained feedback is used for revisions in the curriculum and syllabus, followed by the scrutiny of the standing committee. Subsequently the Board of Studies approves the curriculum and syllabus and the same is presented to the Academic Council for its consideration and final approval with or without modification. The PEOs and POs are evaluated for the programme every year and it is analyzed by the Programme Assessment Committee (PAC) and Programme Advisory Board (PAB). The feedback from stakeholders and the gaps in the attainment are used for further modification / revisions in the curriculum and syllabus.



Curriculum Design and Development Process

1.1.3 How does the College involve industry, research bodies, and civil society in the curriculum design and development process? How did the College benefit through the involvement of the stakeholders?

The college involves various stakeholders as members in various administrative bodies like further implemented. Their inputs are Program advisory board, Board of studies meeting and parents meeting, through which they give their ideas and feedback regarding curriculum design and development, which are taken for review and considered for redefining the Program Educational Objectives and the program outcomes.

In addition to the above, the college will have the following committee to ensure the effective curriculum design and development, proper management of academic, financial and general administrative affairs which are all constituted as per the the composition guidelines of UGC.

Governing Body

The function of Governing Body is to fix the fee and other charges (Institute scholarship, medal, prices and certificates; approve Institution of new programmes etc.,) through the advice of academic council.

Academic Council

It scrutinizes and approves the proposals with or without modification of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications. The council involve faculty at all levels, experts from outside, including representatives of university and government. It recommends the Governing Body for Institution's new programmes.

Standing Committee

The Standing Committee considers the proposed curriculum and syllabi submitted by the Boards of Studies and recommend it to the Academic Council for its consideration and approval with or without modification.

Board of Studies

The academic advancement of the subject area is the principle objective and reason for existence of Board of Studies. It should take up planning of appropriate programmes of study and the organization and implementation of effective teaching. It should foster and,

encourage the development of research. Its functions include framing the syllabi for various courses, reviewing and updating syllabi from time to time, introducing new courses of study, determining details of continuous assessment, with the interest of stake holders and national requirement and recommending panels of examiners. It also suggests methodologies for innovative teaching, evaluation techniques and coordination with research, teaching, extension and other academic activities.

Finance Committee

It advises the governing body on financial matter and meets at least twice a year and it also estimates the budget relating to the grant received/receivable from UGC and income from fees etc., collected for the activities to undertake the scheme of autonomy and auditing the accounts for the above.

Programme Specific Criteria (PSC)

The PSC given by the American Society is adopted and various courses are designed. As an example, the PSC given by American Society for Civil Engineering (ASCE) is as follows.

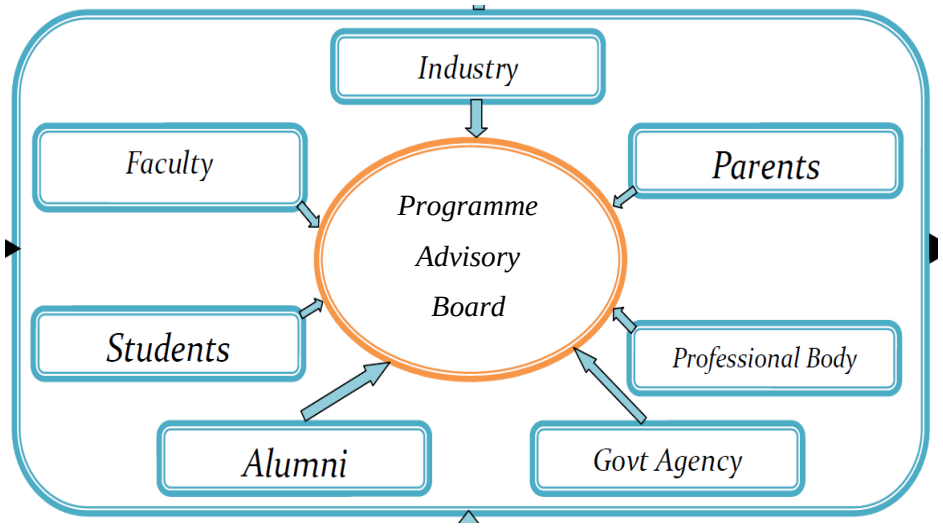
Programme Specific Criteria	Distribution of courses (%)	Credits (%)
Mathematics	6.33	8.07
Science	7.60	7.53
Computing	5.49	3.77
Humanities	8.87	3.77
General management	1.27	1.62
Professional core	67.94	72.59
Communication	2.54	2.69
Total	100	100

Programme Advisory Board (PAB)

The PAB supports in deriving the vision, mission and PEOs and POs. Based on the review of attainment of the POs from PAC, necessary changes in curriculum with respect to course content, update of syllabus, electives, practical components etc. are discussed in the

PAB and a revised curriculum is prepared and forwarded to the Board of Studies for discussion.

Suitable changes suggested by the board of studies members are incorporated in the final curriculum and syllabus and submitted for the approval of the Academic Council through Standing Committee.



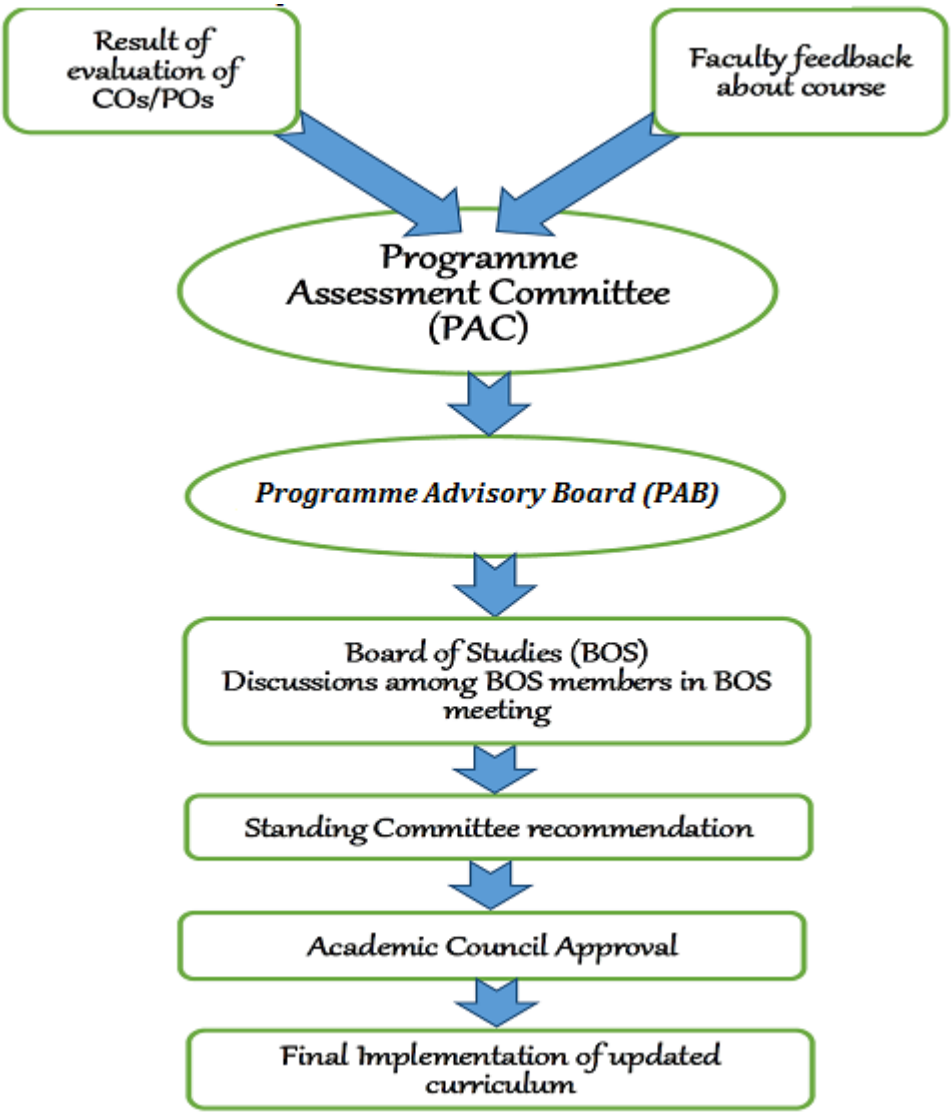
Programme Advisory Board

Programme Assessment Committee (PAC)

Based on results of evaluation of course outcomes for each course, course coordinator will recommend any modifications in the course content and teaching methods. The PAC analyze the direct and indirect survey reports of all the courses along with the feedback from the course coordinator concerned for finalizing the revision to be made in the course content. The responsibilities of the PAC committee areas are as follows:

- To monitor and assess the COs, POs and PEOs
- Planning the curricular and co-curricular activities in accordance with PEOs
- Subject allocation to faculty members within and for service departments
- Scheduling of the program activities during each semester
- Implementation and control of the programme activities for attainment of PEOs and POs
- Carry out periodic assessment of PEOs through feedback from stakeholders.

Details of the curriculum improvement process are given in the following diagram:



Programme Assessment Committee

The benefit to the college through the involvement of stakeholders

By involving stakeholders in designing the curriculum, the college ensures that the curriculum developed covers components for employability, research, topics in emerging trends, social relevance and social needs. In turn, the following are result of the involvement of stakeholders.

- Updated curriculum and syllabus are attained based on the reality.
- Industry projects and Internship programs.

- Academic policy is changed in order to meet the real world requirement in consideration with GATE and other leading exam question paper patterns through the following :
  - Assignment pattern
  - Question paper pattern
  - Dummy number system for internal tests
  - Evaluation procedure (central valuation for internal tests)

The following courses are added as per the suggestions given by the stakeholders:

- Industry based one credit courses
- Technical seminar
- Professional and Open electives
- Human excellence and Professional value courses
- Network Theory
- Solid Mechanics
- Embedded Systems
- Embedded System Design Laboratory
- Product design and development
- Integrated product design
- Foundation skill etc.,
- Internships

1.1.4 How are the following aspects ensured through curriculum design and development?

The design of curriculum was carried out at our college during the years 2007, 2009, 2013, 2014 and 2015 to meet the evolutionary requirements in the industry and other Engineering and business sectors. The improvements in various activities/processes are discussed below.

Employability:

Employability is ensured through multi-skill development of the students. To develop multi skills, the Curriculum includes the following provisions:

- Professional core courses

- Professional electives
- Industry prescribed / Industry expected curriculum
- Establishment of laboratory in collaboration with Industry for state of the art Learning
- Interdisciplinary electives (open electives)
- Interdisciplinary laboratories
- Incorporating minor projects in relevant laboratories
- Presentation of technical papers
- Introduction of industrial training as a mandatory component in the curriculum
- Internship as part of curriculum
- Different assignments patterns and Minor project
- Language laboratory

Innovation

In the curriculum design and development process the following innovations are encouraged through:

- Value added courses / Training to the students
- An exclusive innovation centre to encourage interdisciplinary projects
- Addition of innovative experiments in the laboratory to improve problem solving abilities.
- Inter disciplinary electives
- Minor projects
- Flexibility to choose subjects through open electives, self-study courses, and special electives further enhancing the analytical ability, innovative thinking and creativity.

Research:

The curriculum design and development helps the students and faculty to focus towards research through the following aspects:

- Establishment of linkage with leading research Institutions like IIT, IISC, CSIR, NIT RuTag etc for student internship and projects and research activities.

- Distinguished researchers in Academic Council and Board of Studies suggesting emerging potential areas for research and development.
- It is mandatory for the PG students to publish their research findings in journals/conferences.
- The students and members of faculty are motivated to submit research proposals to various funding agencies.

In addition to the above the following methods are adopted to enhance the research activities.

Project work

In addition to the project that student do in the final year, in Regulations 14 and 15, the students also do a minor project in every semester.

1.1.5 How does the College ensure that the curriculum developed addresses the needs of the society and have relevance to the regional / national developmental needs?

The curriculum is developed considering the needs that exist at the regional and national levels to promote global competencies, environmental, ethical and social issues through soft skills, language development and recent technical developments.

Course	Programme
Environmental Science and Engineering	Common to all Programmes (UG)
Human excellence courses	Common to all Programmes (UG)
Professional ethics	Common to all Programmes (UG)
Intellectual property rights	Common to all Programmes (UG)
Entrepreneurship development	Common to all Programmes (UG)
Industrial safety management	Mechanical engineering
Engineering economics and financial management	Management
Product design and development	Common to all Programmes (UG)
Medical Electronics	Circuit branches
Industrial Electronics	Circuit branches
Foundation Skills in Integrated Product Development	Common to all Programmes (UG)
Medical Mechatronics	Mechatronics
Traffic Engineering And Management	Civil engineering
Geographical Information System (GIS)	Civil engineering

and Remote Sensing	Civil engineering
Earthquake Resistant Structures	Civil engineering
Municipal Solid Waste Management	Civil engineering
Disaster Management And Mitigation	Civil engineering
IPR and Bio business management	Bio Technology
Industrial Bio safety and bioethics etc.,	

Further to the above industry based one credit courses are incorporated in the Bio technology curriculum to enhance their entrepreneur skills for which examples are given below.

- Dairy Technology Sakthi Dairy, Pollachi
- Mushroom Technology Mushroom Foundation of India, Coimbatore
- Pilot plant and Industrial Fermentors Golden Bioculture, Tiruchengode
- Bio ethanol Sakthi Sugars, Appakudal

In addition to the above, Motto of our college is "Character is Life" and to attain this the college ensures the knowledge, skill and attitude through the following aspects.

- Knowledge is ensured through the curriculum as per the global needs
- Skills are enriched by practical courses as per the curriculum and further advanced facilities are provided to enhance the research.
- The curriculum includes Human excellence to impart the right kind of attitude over and above the it is developed through Vivekananda study centre and Gandhi study centre

Swami Vivekananda Study Centre was inaugurated on 02 Nov 2011 and the objectives and activities are furnished here. Creating employable youth and enlightened citizens, Empowering the youth to enrich the nation, Channeling youth energy towards Character Building, Arousing enthusiasm among youth and Instituting an Annual Award for Excellence. The study centre has Photo Gallery depicting the life and messages of Swami Vivekananda, Unique library related to Swami Vivekananda and inspiring books for sale.

Swami Vivekananda said that "Education is not the amount of information that is put into your brain and runs riots there, undigested all your life. We must have life building, man making character making assimilation of ideas". With the above aim, Arutchelvar Dr.N.Mahalingam, Chairman KCT has started this "Mahatma Gandhi Study Centre". It was

inaugurated on 11.06.2009. It has a Photo Gallery consisting of 100 photos of Mahatma Gandhi depicting some important events of Gandhiji's life.

Tributes to Mahatma Gandhi from person like Romain Rolland, Martin Luther King Jr.Albert Einstein, Lord Richard Attenborough, Jawaharlal Nehru, Will Durrant and Hochi Minh are displayed in the study centre. The centre has books written on Mahatma Gandhi by various eminent authors of India and abroad. Further Audio CD and DVD are available on Gandhiji's life and are screened as a part of audio visual education to the students.

Aims and Objectives:

- Introducing Gandhiji to the students in pictures from birth to his martyrdom.
- Providing opportunities to go through Gandhiji's autobiography and the other writings and speeches.
- Screening of Documentary films on Gandhi.
- Briefing on Gandhi's life and message in different sessions.
- Conducting discussion sessions on the life and message of Mahatma Gandhi.
- Conducting Intereligious prayer meetings.
- Conducting Essay and Elocution competitions on various topics of Gandhian Thought.
- Introducing students in carrying out Gandhian constructive programmes.
- Arranging lectures by distinguished Gandhian scholars on various aspects of Gandhian Thought.
- Taking interested students to various Gandhian centers.
- Making students understand the importance of self imposed discipline and Observance of Truth and Non-violence in their day to day life.
- Introducing students who are wedded to the ideals of Gandhi in the extra curricular activities of the college.

1.1.6 To what extent does the College use the guidelines of the regulatory bodies for developing or restructuring the Curriculum? Has the College been instrumental in leading any curricular reform which has created a national impact?

The college uses the guidelines prescribed by regulatory bodies such as Affiliating University (Anna University, Chennai), AICTE and UGC for developing and restructuring the Curriculum.

As per the guidelines of the regulatory authorities, the credit range for the program is fixed. According to the University guidelines, specific courses like Total Quality Management, Professional Ethics and Human Values, Environmental Science, Economics and Management for Engineers are offered. The typical curriculum structure for UG degree programmes based on AICTE and Anna University, Chennai norms are followed and Regulation2015 is given below.

Typical curriculum structure based on AICTE and Anna University Norms

S.No	Course Work Subject Area	Range of Total credits					
		In %		In Numbers, assuming Total credits = 182		In No. of subjects assuming 3 credit subject	
		Min	Max	Min	Max	Min	Max
1	Humanities and Social Sciences(HS)	5	10	9	18	3	6
2	Basic Sciences (BS)	15	20	27	36	9	12
3	Engineering Sciences (ES)	15	20	27	36	9	12
4	Professional Core (PC)	30	40	54	72	18	24
5	Professional Electives (PE)	10	15	18	27	6	9
6	Open Electives (OE)	5	10	9	18	3	6
7	Employability Enhancement Courses (EEC)	10	15	18	27	-	-
	Humanities and Social Sciences (HS) includes Technical English, Foreign Language, Employability Skills, Engineering Ethics & Human Values, Engineering Economics, Presentation Skills and Technical Seminar, Communication skills, Environmental Science &Engg.						
	Basic Sciences (BS)includes Mathematics, Physics, Chemistry, Biology						
	Engineering Sciences (ES) includes Materials, Workshop, Drawing, Basics of Electrical / Electronics / Mechanical / Computer Engineering, Instrumentation						
	Professional Core (PC) relevant to the chosen specialization/branch						
	Professional Electives (PE) relevant to the chosen specialization/branch						
	Open Electives (OE)from other technical and/or emerging subject areas						
	Employability Enhancement Courses (EEC) includes Project work, Seminar and/or Internship in Industry or elsewhere.						

The Curriculum and Syllabus are kept dynamic by restructuring the same periodically by taking into account the changing national and global scenario which creates a national impact.

Fast Track programme

Students who maintain a CGPA ≥ 8.5 at the end of fourth semester and have passed all courses in first appearance are eligible for a fast track programme. Students can opt for the fast track programme from the Fifth Semester. The three elective courses of the Eighth semester can be taken in the earlier semesters (maximum one per semester) by the students. This will enable the students to be free from theory courses in the Eighth Semester. Students can pursue internship / industrial projects on a full time basis.

Accelerated Mode

During this mode, Eighth semester students will complete their academic courses in accelerated way and the remaining period they would concentrate more on final semester projects and internships.

1.2 Academic Flexibility

1.2.1 Give details on the following provisions with reference to academic flexibility.

a. Core / Elective options

Core

Core courses are common for all students of a programme. The following flexibility are given in the regular curriculum:

- Assignment pattern
- Question paper pattern
- One credit course
- Duration for completion of the programme

Elective

- Professional electives
- Open electives
- One credit course

The process of core and elective options are briefed below:

Every student shall opt for electives from the list of electives relating to their degree programme as given in consultation with the class advisor, Programme Coordinator and the HoD. The student will be required to study 2 types of electives called open electives and professional electives and the electives will spread over from 4th semester to 8th semester. Open electives are the elective courses offered by a department exclusively for students of other branches and professional electives are courses offered by a department to the students of their own branch. From 4th semester, a student has the option to study additionally or forgo a maximum of two theory courses (only electives, if offered) in a semester; subject to the theory course being dropped shall not be a prerequisite for the next semester. In case of a student dropping a course of study in one semester, they shall register for that course in the next given opportunity and earn necessary attendance in that course exclusively to become eligible to appear for the semester examination in that course.

b. Enrichment courses

The following courses are offered to the students for the enrichment of value education.

- Environmental science and Engineering
- Entrepreneurship development
- Total Quality Management
- Engineering economics and financial management
- Professional ethics and human values
- Additional training
- Soft skills
- Language development
- Aptitude and reasoning

c. Courses offered in modular form

Industry Oriented One credit courses in modular form are offered for UG and PG programmes and have been incorporated in the Regulations 2014 and 2015.

d. Credit transfer and accumulation facility

Credit transfer facility is available when the students migrate from one regulation to another on medical/personal reasons. For students readmitted from 2009, 2013 and 2014

Regulations (due to discontinuation for different reasons) to 2015 regulation, a course committee will be constituted by the Principal to decide the Courses exempted and additional Courses to be appeared by the student concerned.

A student may, for valid reasons (medically unfit/ unexpected family situations), be granted permission to withdraw (after registering for the examinations) from appearing for any course or courses in the end semester examination. This facility can be availed only once during the entire duration of the degree programme. Withdrawl of application will be valid only if the student is, otherwise, eligible to write the examination and the application for withdrawal is submitted prior to the examination in the concerned course or courses. The application for withdrawal should be recommended by the Head of the Department and approved by the Principal.

Since the implementation of R2015, credit transfer and accumulation facility has been considered through the option for one credit industry oriented courses for a minimum of 15 hours duration, which will be offered by experts from industry on specialized topics apart from the prescribed courses of study of the programme. Students can complete such one credit courses during the semesters 5 to 7 as and when these courses are offered by any of the departments. There is no limit on the number of one credit courses a student can register and successfully complete during the above period. If the student passes the course, it will be indicated in the grade sheet. If the student fails to pass the course, the one credit course will not get reflected in the grade sheet. There is no arrear exam for one credit courses. The one credit courses will not be considered for computing CGPA. Four human excellence courses (with one credit for each of the courses, minimum 15 hours duration) will be offered from the first to forth semesters (one course per semester). Credits will be indicated for these courses in the grade sheet and will be considered for computing CGPA.

e. Lateral and vertical mobility within and across programmes and courses

Lateral and vertical mobility is available in all the programmes offered through the system called open electives in which electives are offered by a department exclusively for students of other programmes. Professional electives are courses offered by a department to the students of their own programme.

1.2.2 Have any courses been developed specially targeting international students? If so, how successful have they been? If 'no', explain the impediments.

Being an autonomous affiliated college, we are not authorized to admit and offer any course to International students and we are yet to initiate admissions.

1.2.3 Does the College offer dual degree and twinning programmes? If yes, give details.

No; The Institution does not offer dual degree courses.

1.2.4 Does the College offer self-financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, and teacher qualification and salary are at par with the aided programmes?

Yes; All programmes fall under the self-financing category.

Tamilnadu government has given approval for self-financing status to the college vide G.O.NO 1278, Edn., dated 27-09-1984.The college has got its autonomy status during 2007 by UGC. In addition to this UGC has accorded 12(B), 2(f) status to the college.

The list of programmes are given below

UG Programmes : B.E/ B.Tech	PG Programmes: M.E/ M.Tech/MCA/MBA
Aeronautical Engineering	---
Automobile Engineering	---
Civil Engineering	Structural Engineering
Computer Science and Engineering.	Computer Science and Engineering
Electrical and Electronics Engineering	Power Electronics and Drives Embedded Systems Technologies
Electronics and Communication Engineering	Communication Systems Applied Electronics
Electronics and Instrumentation Engineering	---
Mechanical Engineering	CAD/CAM Energy Engineering Industrial Engineering
Mechatronics Engineering	---
Bio-Technology	Bio Technology
Fashion Technology	Apparel Technology
Information Technology	---
Textile Technology	Textile Technology
	MCA - Master of Computer Applications
	MBA – Master of Business Administration

Research Programmes	
1	Mechanical Engineering
2	Civil Engineering
3	Textile Technology
4	Computer Science and Engineering
5	Mechatronics Engineering
6	Bio Technology
7	Science & Humanities (Chemistry)
8	Master of Business Administration
9	Electronics & Communication Engineering
10	Fashion Technology

Admission Policy	As per Government of Tamilnadu Norms
Fees Structure	As per Government of Tamilnadu Norms
Teacher Qualification	As per AICTE Norms
Salary	As per AICTE Norms

1.2.5 Has the College adopted the Choice Based Credit System (CBCS)? If yes, how many programmes are covered under the system?

Yes; The Institution follows R2015 in which CBCS has been adopted for all the programmes.

The programmes covered under CBCS is listed below

PROGRAMME NAME	NUMBER OF PROGRAMMES
Under Graduate (B.E., B.Tech.)	13 (All)
Post Graduate (M.E., M.Tech., MCA, MBA)	14 (All)

1.2.6 What percentage of programmes offered by the College follows annual, semester and trimester system?

- Annual system - Nil
- Semester system - All programmes both UG and PG level follow the semester system
- Trimester system - MBA programme followed trimester system from 2007 to 2009. From 2010 onwards the MBA programme changed to Semester system

1.2.7 What is the policy of the College to promote inter-disciplinary programmes? Name the programmes and what is the outcome?

The policy of the College is to promote inter-disciplinary programmes based on the regional, national needs and employment potential.

The following programmes are offered to promote inter-disciplinary activities.

- B.E Mechatronics Engineering
- B.E Electronics and Instrumentation Engineering
- M.E. Embedded Systems Technologies
- M.E. Power Electronics and Drives
- M.E. Industrial Engineering (up to 2011-2013 batch)

  The outcome of this programme is to fulfill national and global needs

1.3 Curriculum Enrichment

1.3.1 How often is the curriculum of the College reviewed for making it socially relevant and/or job oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders?

Revision in curriculum is planned for once in four years for all programmes. If required, minor changes in any course are permitted in between with proper approval from the BOS and academic council.

The following table indicates the period of the curriculum change with reason.

Change in Regulation	Reason
2007	First autonomous curriculum framed
2009	To adopt latest trends in the emerging areas, to fulfill the industrial needs and cope up with global competition.
2013	
2014	Implementation of OBE
2015	Implementation of CBCS

A structured procedure is adopted for reviewing the curriculum of our Institution. To reach out the goals and objectives, a series of Group Discussions among faculty members at departmental level is made. While reviewing the syllabus, recent technological developments, socially relevant and career oriented contents are given due importance. In addition to the engineering discipline curriculum the following social relevant courses like Professional Ethics and Human values, Environmental Science, Principles of Management, and Total

Quality Management have been included to enhance the societal fitness of students and other stakeholders. The interaction and feedback with our stakeholders from industry paves way to understand current demands of the industry and technological advancements, which help in redesigning the curriculum for the students to become job oriented and possess intensive knowledge.

1.3.2 How many new programmes have been introduced at UG and PG level during the last four years? Mention details.

Number of Programme	Name of the programme	Year	Programme
1	Automobile Engineering with 60 intake	2011-2012	UG

1.3.3 What are the strategies adopted for revision of the existing programmes? What percentage of courses underwent a major syllabus revision?

The college is following different types of strategies for the revision of regulations, scheme of examinations, Curriculum and Syllabus through the following methods and it is approved by PAB and Board of Studies etc.

- Feedback from employers.
- Societal and Industrial projections.
- Feedback from Alumni.
- Feedback from the faculty, students and parents.
- Evaluation of availability of experts, expertise, training, tools and techniques.
- Review on feasibility.
- Addressing the global challenges.
- Trend analysis.

Normally a maximum of 20% of courses undergo major changes. In recent revisions, most of the departmental programmes underwent 10% of major revision and rest with minor revision.

1.3.4 What are the value-added courses offered by the College and how does the College ensure that all students have access to them?

Value added courses on various engineering software packages/core areas offered in the college are given below.

Sl. No.	Name of the Department	Value added courses offered
1	Aeronautical Engineering	CAD, Hyper Works, CATIA, CFD and ANSYS.
2	Automobile Engineering	Hyper Works, CATIA, and ANSYS.
3	Civil Engineering	AutoCAD, STAAD Pro, REVIT Architecture MS- Project, E TABS, Primavera, Auto plotter
4	Computer Science and Engineering	C and C++ Programming, HTML, PHP and MySQL, Web Designing, Machine Learning using Octave, NS2 Simulator, System Maintenance, Web Designing using Photoshop.
5	Electrical and Electronics Engineering	Intelligent Control using MATLAB, Integrating new & renewable energies, Hands-on training programme on MATLAB, Embedded System hands on training programme, Solar Photovoltaic Technology, Hands on training on PCB fabrication, Arduino Programme for Electrical Engineers, VLSI Design Techniques, Recent Trends in power electronics & drives.
6	Electronics and Communication Engineering	Analog Applications, Real Time Systems, Mixed Signal Controllers, Internet of Things(IoT)
7	Electronics and Instrumentation Engineering	Virtual Instrumentation Training, PLC Programming and its Applications, Advanced Techniques for Test and Measuring Equipments, Distributed Control Systems Training by Yokogawa, Introduction to MATLAB Programming, Circuit Design, Simulation and PCB Design, Industrial Automation.
8	Mechanical Engineering	Hyper Works, Pro-E, CATIA, Solid Works and ANSYS, CNC Programming and Training.
9	Mechatronics Engineering	Robot Programming, Relay Logic and PLC & SCADA, LaboratoryVIEW, Embedded C Programming.
10	Bio-Technology	Human excellence courses, General elective subjects
11	Information Technology	Oracle 10G, Multimedia / Web Design, .NET, Wireless Embedded Systems, Research issues and simulation tool support in high speed wireless networks.
12	Textile Technology	Hindi classes, Apptitude class, Soft skill trainings, Technical trainings
13	Fashion Technology	Hands on Training/Work shop, Guest Lectures
14	MBA	Capstone Simulation, Career Readiness Program, Business Analysis.
15	MCA	Subject-wise technical skill- enhancing courses, CCNA certification course

The courses are offered after regular college working hours thereby ensuring that all the students have a chance to attend them. Some courses are offered during the weekends, summer/winter vacations. The infrastructure facilities available in the departments are made accessible to the students during the conduct of the programmes.

1.3.5 Has the College introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?

Yes; the priority areas listed by the National Skills Development Corporation (NSDC) are covered by the various programmes offered by the College as given below.

- Tamilnadu State Government – TNCDW Ltd Chennai - Mahalir Thittam is sponsored by Skill Training Programmes for Women Self Help Groups, Men Youth and Adolescent Girls.- 20 Programmes from 2007 to 2009 of Rs. 19, 72,300 (711 Participants)
- Tamilnadu State Council for Science and Technology for Conducting Training Programme for women self help groups – 1 Programme- Rs. 20,000.
- Renovated Marutham Co-Optex, Coimbatore by Visual merchandising and window display -Increased Profit by using visual merchandising in Marutham Co-Optex, Coimbatore.
- Tamilnadu State Government –ICDS, Chennai is sponsored by Vocational Fashion Technology and Computer Skill Training Programmes for Adolescent Girls from 2013 to 2014 of Rs. 30, 000
- Tamilnadu State Government –ICDS, Chennai is sponsored by Vocational Fashion Technology and Computer Skill Training Programmes for Adolescent Girls from 2014 to 2015 of Rs. 30, 000
- Tamilnadu State Government –ICDS, Chennai is sponsored by Vocational Aari Embroidery Skill Training Programme for Adolescent Girls from 2014 to 2015 of Rs. 30, 000.

1.4 Feedback System

1.4.1 Does the College have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

Yes. The feedback is obtained through the ISO documents, course end feedback systems and programme end feedback systems.

In addition to that, the Institute encourages the participation of all the stakeholders in planning, implementation and evaluating the academic programmes. It collects the feedback from them about POs which indirectly reflect on the curriculum. The Institute has several mechanisms to obtain feedback from current as well as outgoing students and stakeholders. The institute gets regular feedback from student, alumni, parent, and industry related to the areas of curriculum indirectly and on delivery mechanism. Feedback from students on the ongoing academic activities is collected through the feedback forms available in Intranet.

Feedback is also obtained through personal interaction with students during the meetings like Class Committee meetings, Academic Improvement committee meetings between students and Principal. The consolidated outcome is communicated to the respective authorities /HoDs/Faculty. The feedbacks are also used to organize the programs and courses to take care of the contents beyond syllabi and the suggestions made are taken into consideration during the subsequent Board of Studies and Academic Council meeting.

1.4.2 Does the College elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods adopted to do the same - (conducting webinar, workshop, online forum discussion etc). Give details of the impact on such feedback.

Yes.

- Feedback on curriculum is obtained from national and international faculty experts, when they are invited for conducting workshops, national/international seminars/conferences.
- On receipt of feedback from them, necessary revision will be made in the curriculum after getting the approval from BOS concerned and Academic Council.
- Online discussions with other lead university faculty are also held by the members of faculty to upgrade the Curriculum to meet the global challenges.

There is an example from Information Technology department and the details are furnished.

BOS member – Dr.S.K.Ramesh

Dean College of Engg. & Computer Science.

State University of Northridge, California.

Subcommittee meeting will be conducted during his visit to India. Every time feedback from the expert on curriculum and syllabus will be collected through online system.

1.4.3 Specify the mechanism through which alumni, employers, industry experts and community give feedback on curriculum enrichment and the extent to which it is made use of.

- Several Alumni members are entrepreneurs and many hold management positions at leading industries/organization. Feedback from them is collected when they visit the college, alumni meet and during their presence in the BOS meeting.
- Employers are invited to offer their comments / opinion on the curriculum, when they visit the college for workshops, seminars, conferences, BOS meeting and academic council meeting.
- Community feedback collected from parents during the Parent - Teacher meetings and by informal community contacts.
- Feedback is analyzed during the departmental meetings and in the HOD's meeting. The modified curriculum and syllabus incorporating the changes are sent to the Board of Studies members consisting of employers / industry nominees and senior professors from leading Institutions and later discussed in detail in the BOS meeting. Then, the Curriculum Development Cell is notified about the changes in the Curriculum and Syllabus for approval of BOS, Standing Committee and Academic Council.

1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the Institution in ensuring effective development of the Curriculum?

Quality sustenance and quality enhancement measures with reference to curricular design and development / academic flexibility / feedback from stake holders can be witnessed through the result of CO, PO, PEO and GA.

The Institution is adopting the OBE Process to ensure that the required outcomes (knowledge, skills and attitude / behavior) are acquired by the learners of the programme.

Adhering to the OBE process in mind, our educational system has been framed to provide the needful scope for the learners through the CBCS that will pave the path to strengthen their knowledge, skills and attitude / behavior. CBCS offers flexibility to learners by including interdisciplinary electives and industry based courses.

- Program Advisory Board meeting comprising representatives from all the stake holders
- Feedback received from students, alumni and employers
- Individual subject feedback – feedback from staff handling the individual courses
  Program Assessment Committee meeting – to check the gaps to be filled by the curricular and co-curricular features to achieve the program outcomes of the program
- Sub-committee meeting – To check the curricular and co-curricular requirements of individual modules
- Board of Studies meeting – Discussions and review of the formulated curriculum and recommendations are submitted to the Academic Council for approval. Its functions include framing the syllabi for various courses, reviewing and updating syllabi from time to time, introducing new courses of study, determining details of continuous assessment etc.
- Academic Council - Scrutinize and approve the proposals with or without modification of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications.

Any additional information regarding Curricular Aspects, which the Institution would like to include.

The additional information regarding curricular aspects of our Institutions includes the following aspects.

Examination improvements / Highlights (2007 – 2015)

- Workshop for Setting the 'Revised Bloom's taxonomy' based Question Paper for our Autonomous Examinations was conducted and the same has been implemented.
- Introduction of Fast Track Programme from fifth semester for the students who maintain a CGPA of 8.5 and above in fourth semester and have passed all courses in first appearance, to facilitate them to pursue their internship / industrial

projects on a full time basis, without any concern for theory courses in eighth semester.

- Periodical revisions /modifications / additions of new courses in the curriculum by the introduction of new regulations and syllabi (i.e) 2009, 2013, 2014 and 2015.
- Introduction of industry based one credit courses to meet the requirements of modern industry.
- Introduction of human excellence as one/two credit course to enlighten the students on the rich heritage and culture of our nation and its ethical values.
- Design and implementation of communication skill laboratory courses are in to improve the language skills of our students of all branches.
- QP setting and Evaluation of end semester examination answer papers were improvised in a ratio of 50% external and 50% internal subject experts.
- Introduction of dummy number system and OMR based evaluation for internal tests / model examinations / end semester examinations during the academic year 2013-2014 onwards.
- Periodical conduct of QP scrutiny and passing board by the external subject experts.
- Conduct post academic audit of end semester QP and external audit on evaluation of answer scripts.
- After the publication of eighth semester regular examination results, a special supplementary examination is offered to students who have failed in any of the theory courses in any of the semesters.
- Introduction of supplementary examinations from the academic year 2014-2015.
- Timely publication of end semester examination and supplementary results in the college web site/student corner.
- Implemented Online Student Attendance and mark entry in MIS software successfully.
- Automatic Calculation of CAM mark by MIS software.
- Communication of students' test performance to the parents through SMS.
- Implementation of good remunerative package for examiners compared to other autonomous Institutions.
- Effective utilization of Google drive/ email / sms for examination related assignments to the internal and external examiner ship.

- Conduct of end semester evaluation under the supervision of Chairman / chief examiners.
- Anna University Representative (AUR) in the conduct of end semester theory examinations is assured.
- Printing and distribution of end semester and consolidated statement of grade sheets in non-taxable sheets with six security features including student photograph.
- In our incessant efforts to improve on the institute – parent interaction, we have introduced a system called CARE 360^0 to monitor student performance semester wise (Complete Academic Review for Enhancement) students' performance in end semester examination, extracurricular and co-curricular activities report from 2015-16 onwards.
- Students internal test mark, CAM mark, examination seating arrangements and end semester examination result are published in student's corner in KCT website.

Club Activities

- **Arts**

  Fine arts, Dance and music

- **Entrepreneurship**

  LEED, Namma Café, studio KCT

- **Literature**

  Sahitya, Tamil Mandram, Qubate, Humour Club

- **National Cadet Corps**

  Boys Wing, Girls Wing

- **Social**

  National Service Scheme , Youth Red Cross , Red Ribbon Club , Volunteer Blood Donation Club ,Gandhian Youth Movement ,Vivekanandha Youth Movement , Nature Club , Rotaract Club , Namadhu Pangu ,Road Safety Patrol , Young Indians , Manavalakalai Mandram

- **Technical**

  Ham Club, Society of Automotive Engineers, Students for the Exploration and Development of Space, Kumaraguru Innovators Club

Professional activities

- BAJA
- Supra
- Go Carting
- Dirt bike
- Quad corc
- Design competitions

Others

- Remedial class
- Bridge courses
- Engineering Immersion Boot Camp
- Blending of Department students in first year class

Social Immersion Project (SIP)

All the students of first year UG programmes are provided with a two credit course to engage in social immersion project. This is part of curriculum and regulation 2015. The students in small batches will visit villages to engage in societal challenges to provide solutions. The solutions can be beyond engineering and technology. Expertise of NGOs and faculty involved in societal work is utilized.

In addition to this, the quality of teaching is ensured through Academic Audit which comprises higher officials of the college and the audit is conducted once in 6 months in the following aspects.

Theory Course

a.	Individual time table of faculty	As provided by HoD
b.	Student name list	As enrolled
c.	Lesson plan (with syllabus)	As per ISO format
d.	Class notes	Content: Objective, relevant subject material, question bank 9descriptive and objective type)
e.	Internal test and model exam question papers	Actual test question papers
f.	Details of assignment given	Copy of assignment

g.	Copy of corrected assignment submitted by students	Photocopy of one assignment submitted by a student
h.	End semester question paper	Question paper of the previous 3 years
i.	Teaching beyond the syllabus (mandatory-Three hours per semester)	Relevant document
j.	Best and worst test answer scripts	To be photocopied and filed
k.	OHP, PPT and other teaching aids used	Copy as available

Laboratory Course

a	Cycle of experiments (with syllabus)	As per ISO format
b.	Number and details of experiments beyond the syllabus	As planned / conducted
c.	Laboratory work book	As per the format enclosed (should be available before the start of the semester)
d.	Model laboratory exam question papers	Actual model exam question papers
e.	Master record	This record will contain the readings / calculations of a trial run conducted by the laboratory in-charge (Teaching faculty) on all the equipments in the laboratory.

Documents of Class Advisors

- Class log book
- Student attendance records
- On-duty / Medical leave file
- Student records
- Marks register

CRITERION II: TEACHING – LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 How does the College ensure publicity and transparency in the admission process?

The publicity and transparency in the process of admission are well ensured.

Publicity:

Kumaraguru College of Technology is one of the premier Institutions in the State of Tamil Nadu. Over a period of three decades, KCT has earned reputation not only in the Coimbatore region within the State of Tamil Nadu but also at the National level, through its strength in academics, excellent linkage with industries, well designed value added programmes to nurture and turn out a true professional. By virtue of these credentials, the Institution remains as one of the most sought after destinations for quality learning by aspiring students. Many of the alumni have become successful professionals, academicians, entrepreneurs, thus serving society in more than one way. The achievements of the graduating students are ample testimony to the education and values imparted by KCT during their study.

Publicity is also ensured through the following means:

- Informative college website www.kct.ac.in
- Events and programmes are featured on the newspapers regularly
- Participation of the college in Educational conferences, Industrial Exhibitions and regular conduct of Alumni Meets
- Participation in ranking at National level (NIRF, Magazines)
- Active participation in civic campaigns such as Voter awareness, Swachh Bharath Mission, etc. and welfare programmes such as health awareness, road safety etc.

The Institution hosts competitions for students of colleges and schools at International and National levels in sports. Children and teachers from schools in the state are invited for

campus tour as a part of regular outreach programmes and are oriented continually by organizing extra-curricular activities.

Transparency

The admission procedure is transparent. Out of the total UG annual intake, 65% seats are filled through the Tamil Nadu Engineering Admissions (TNEA) Single Window System of Anna University, Chennai which ensures transparency so that aspirants get admission into Engineering Colleges of Tamil Nadu based on rank list. The remaining 35% of the seats are filled under Management Quota by the process as per University guidelines and Government norms.

In the case of PG admissions, 50% of the seats of M.E / M.Tech programmes are filled based on the score in GATE / Tamil Nadu Common Entrance Test (TANCET) through Tamil Nadu Common Admissions (TANCA) and 50% of seats of MBA/ MCA programmes are filled by single window counseling system by Anna University, Chennai based on TANCET score. The remaining 50% of the seats of M.E./ M.Tech./ MBA/ MCA programmes under Management quota are filled by Consortium of Self Financing Professional, Arts and Science Colleges as per Government and University regulations.

2.1.2 Explain in detail the process of admission put in place for UG, PG and Ph.D.programmes by the College. Explain the criteria for admission (Ex. (i) merit, (ii) merit withentrance test, (iii) merit, entrance test and interview, (iv) common test conducted by stateagencies and national agencies (v) others followed by the College?

S.No.	Programme		Criteria for Admission
1.	UG (B.E./B.Tech)	Regular	Merit. Based on marks obtained in HSC qualifying examination.
		Lateral Entry	Merit. Based on marks obtained in Diploma examination.
2.	PG (M.E./M.Tech./MBA/MCA)		Merit. Based on Tamil Nadu Common Entrance Test conducted by Anna University, Chennai.
3.	Ph.D.		Merit. Based on Entrance Test and Interview.

UG Programmes

Admission Process

Out of the sanctioned annual intake for admission, 65% of seats are filled through **Tamil Nadu Engineering Admission (TNEA) Single Window Counseling**. In this process, the students aspiring to join engineering in Tamil Nadu apply through TNEA. The TNEA

admission will be based on a pass in the HSC (Academic) or its equivalent with a minimum average percentage in Mathematics, Physics and Chemistry. The overall rank list and community wise rank lists and counseling schedule based on the rank will be published in Anna University, Chennai website. The candidates, through an open transparent system of counseling, opt for the Institute and the branch of study of their choice during counseling. The remaining 35% of the seats of the annual intake are filled as the Management Quota. The complete list of the selected candidates is approved by the Directorate of Technical Education (DOTE).

Qualifying Examinations & Eligibility Criteria

The eligibility criteria for the admission are:

A pass in the HSC (Academic) or its equivalent with a minimum average percentage in Mathematics, Physics and Chemistry put together as given below:

HSC(Academic)

S. No.	Community	% of Aggregated Marks
1.	OC	Minimum average of 50% and above in Mathematics, Physics and Chemistry
2.	BC/BCMuslim	Minimum average of 45% and above in Mathematics, Physics and Chemistry
3.	MBC/DNC	Minimum average of 40% and above in Mathematics, Physics and Chemistry
4.	SC/SCA/ST	Minimum average of 40% and above in Mathematics, Physics and Chemistry

Selection Procedure:

Normalization of Marks: As per Tamil Nadu Government norms, the marks obtained by the students in the relevant subjects in the qualifying exam conducted by various Boards or Authority shall be equated with the marks obtained by the students in the same subjects in the qualifying exam conducted by the State Board of Tamil Nadu by adopting the method of normalization. A merit list will be prepared based on the total marks of 200(weight of Mathematics is 100, Physics 50, Chemistry 50).

UG Lateral Entry Admission to II Year B.E. / B.Tech.:

Government of Tamil Nadu has prescribed minimum eligibility marks for admission to II year B.E. /B.Tech. Degree programmes under lateral entry scheme for Diploma and B.Sc. candidates. The admission is through single window system organized by Directorate of Technical Education, Government of Tamil Nadu. The minimum eligibility marks for the candidates is presently:

S.No.	Community	% of Aggregate Marks
1.	OC	55%
2.	BC/BC Muslim	50%
3.	MBC/DNC	45%
4.	SC/SCA/ST	Mere pass in qualifying examination

Computation of eligibility Marks for Lateral Entry Admission:

Programme	Eligibility Marks
Full time Diploma/ B.Sc.	Overall percentage of marks obtained by the candidate from 1st semester to 6th semester
Lateral Entry Diploma	Overall percentage of marks obtained by the candidate from 3rd semester to 6th semester
Sandwich Diploma	Overall percentage of marks obtained by the candidate from 1st semester to 7th semester
Part time Diploma	Overall percentage of marks obtained by the candidate from 1st semester to 8th semester

PG Programmes

Admission Process

Admission to the PG Programmes (M.E./M.Tech./MCA/MBA) is through score in GATE / Tamil Nadu Common Entrance Test (TANCET) through Tamil Nadu Common Admissions (TANCA). Tamil Nadu Common Entrance Test (TANCET) is conducted by Anna University, Chennai. In addition to TANCET, for MBA and MCA programmes, an entrance test is conducted by Consortium of Self Financing Professional, Arts and Science Colleges in the state of Tamil Nadu.

Eligibility Criteria

M.E. / M.Tech.

A pass in a recognized Bachelor's degree or equivalent in the relevant field and obtained at least 50% marks (45% in case of candidates belonging to reserved category) in the qualifying examination of B.E. / B.Tech. degree programme.

MBA

A pass in a recognized Bachelor's degree of minimum 3 years duration and obtained at least 50% mark (45% in case of candidates belonging to reserved category) in the qualifying examination of:

10+2+3 years pattern (or)

10+3 years Diploma + 3 years pattern (or)

B.E./B.Tech./B.Arch./B.Pharm. (or)

10+2+AMIE or 10+3 Years Diploma (awarded by the State Board of Technical Education) + AMIE

MCA

A pass in a recognized Bachelor's degree of minimum 3 years duration with Mathematics at 10+2 level or at Graduate level and obtained at least 50% marks (45% in the case of candidates belonging to reserved category) in the qualifying examination of:

10+2+3 years / 4 years pattern (or)

10+3 years Diploma + 3 years pattern (or)

10+2 + AMIE (or) 10+3 years diploma (awarded by the State Board of Technical Education) + AMIE

MCA Lateral Entry

A pass in a recognized Bachelor's degree of minimum 3 years duration in BCA, B.Sc. (Computer Science/ Information Technology) with Mathematics at 10+2 level or at Graduate level and obtained at least 50% marks (45% in the case of candidates belonging to reserved category) in the qualifying examination of :

a) 10+2+3 years Pattern

Ph.D.

Admission Process:

- Candidates desirous of registering for Ph.D. Programme shall apply in the prescribed application form downloaded from the University website, fill in all the necessary details and submit through proper channel wherever applicable, before the due date as indicated in the notification issued from time to time. Normally, the University shall issue notification for Ph.D. admission twice in a year.
- The applications of the eligible candidates shall be processed by Committees constituted by the Director (Research) for the purpose of selection. The composition of such committees shall be decided by Director (Research) with the approval of Vice-Chancellor, taking into account the number and nature of applications received.
- The Centre for Research shall screen the applications as per the eligibility norms, and the Centre for Entrance Examinations shall be responsible for the conduct of test for eligible candidates. Based on the performance of the test and cut off marks recommended by the Research Board, the successful candidates shall be short listed.

Educational qualifications for Ph.D. are given in the table below:

S.No.	Programme	Qualification for Admission
1.	Ph.D. Degree in Engineering/ Technology	M.E./M.Tech. / M.S. (By Research) in the relevant branch of Engineering or Technology
2.	Ph.D. Degree in Science and Humanities	M.Sc. / M.S. (By Research) in the relevant branch of Science and Humanities / M.C.A /M.A.(English/ Communication/ Mass Communication/ Journalism/ Media Arts)
3.	Ph.D. Degree in Management Science	MBA/ Post Graduate Diploma in Business Management or Administration awarded by Indian Institute of Management (IIM)/ M.S. (By Research) in Management Sciences

2.1.3 Does the College have a mechanism to review its admission process and student profiles annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?

The admission is based on Tamil Nadu Engineering Admissions (TNEA) counseling and the Institution has no role in the admission process. The analysis of the students is done annually with respect to category wise cut-off marks, geographic location, gender, etc. The

Institution analyzes the student profiles immediately after their admission into the college to gain insight into:

- Opening and closing cut off marks - community wise
- Geographical distribution of candidates
- Gender classification
- School of study, Board and Medium of study.

The outcome of the analysis is helpful to:

- Identify the students coming from the medium of instruction other than English and train them to improve the communication skills.
- Identify the vocational group and lateral entry students to develop their analytical skills by conducting special classes in Mathematics and Physics.

2.1.4 What are the strategies adopted to increase / improve access to students belongingto the following categories

∗ SC/ST

∗ OBC

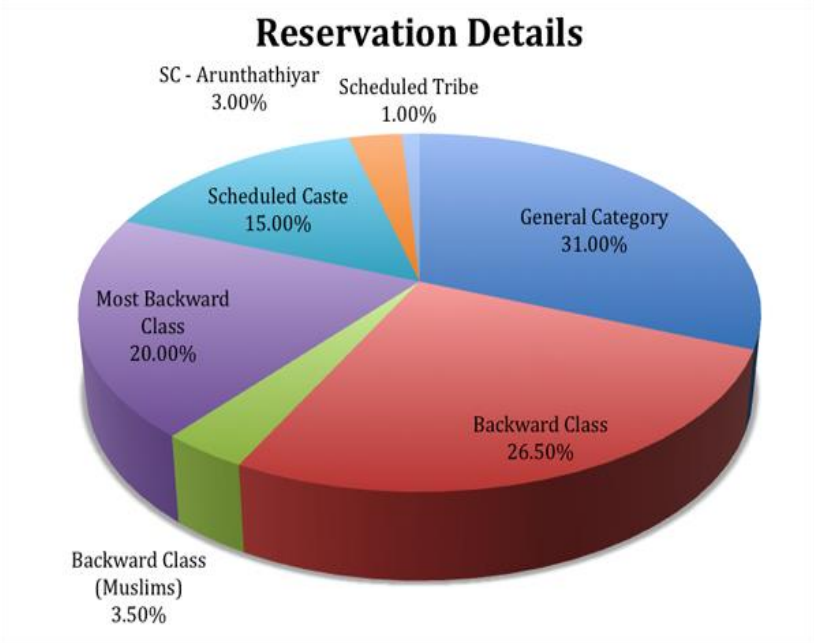
∗ Women

∗ Different categories of persons with disabilities

∗Economically weaker sections

∗Outstanding achievers in sports and extracurricular activities

Reservation has been a way for the Government to uplift the weaker segment of our community. The pie chart below shows the details of reservation of engineering seats to different segments of our society. Tamil Nadu native candidates alone will be considered for communal reservations.



ST / SC / MBC & DNC / BC / BCM (BC Muslim) candidates are eligible for selection under Open Competition in addition to the reservations made for them.

Special Categories

Apart from the general reservation of seats, Anna University also provides reservation for the following special categories. This is applicable to all the affiliated colleges under Anna University, Chennai. The below are consolidated numbers and distributed across all the affiliated colleges.

Children of ex-service men: 150

Children of freedom fighters: 10

Physically Handicapped: 3 % (Orthopedic: 1% / Hearing impaired 1% / Visually impaired 1%)

Sports Quota: 100

a. SC/ST/OBC

The State agency TNEA has its communal reservation policies for students from SC/ST and OBC. The Institution abides by the reservation policies of the Government. A conducive environment is provided for the SC/ST students ensuring good learning. The Institution aids the student in obtaining all the government scholarships.

Scholarship Details

S. No.	Name of the Scholarship	2013-2014		2014-2015		2015-2016	
		No. of Students	Amount (Rs.)	No. of Students	Amount (Rs.)	No. of Students	Amount (Rs.)
1	BC / MBC Welfare Scholarship	1114	73,29,000	1167	79,12,735	1156	78,53,740
2.	SC / ST – GOI Post Matric Scholarship	390	43,43,400	449	50,24,100	444	50,01,650
3.	First Graduate	964	1,92,80,000	1309	2,61,60,000	1250	2,50,00,000

b. Women:

The single window system does not have a provision for special reservation of women candidates. To encourage the admission of women candidates, the Institution provides :

- Hostel accommodation to all students with all amenities.
- Exclusive play grounds, shops, food outlets inside ladies hostel.
- Security systems to take good care of inmates.
- Resident tutors to comfort those who have problems.

c. Different categories of persons with disabilities:

The single window counseling system supports reservation for differently-abled students. Support mechanisms for the differently-abled students include:

- Lift
- Ramp Facilities
- Availability of wheel chair

d. Economically weaker sections

Candidates from economically weaker sections are supported through government scholarships. The college ensures that the scholarships reach the students on time. The First Graduate scholarship scheme introduced by the Government of Tamil Nadu encourages the first graduate from a family to pursue professional education. The tuition fees concession is for economically backward students by the Institution.

e. Outstanding achievers in sports and extracurricular activities:

The single window counseling system has reservations for outstanding achievers in sports.

Extra-Curricular activities

- Financial assistance is given for participating in National and International level sports events
- Financial/ Logistics assistance is provided for NSS/ NCC activities.
- Financial assistance is given for doing innovative projects and participating in conferences

2.1.5 Furnish the number of students admitted in the College in the last four academic years.

Categories	2012-2013		2013-2014		2014-2015		2015-2016	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	132	75	131	67	129	75	115	68
ST	5	3	7	4	11	2	5	2
OBC	984	519	993	525	1017	499	1040	492
General	87	76	92	55	95	57	92	62
Others	Nil							

2.1.6 Has the College conducted any analysis of demand ratio for the various programmes offered by the College? If so, indicate significant trends explaining the reasons for increase / decrease.

The number of applications and the demand ratio for the programmes offered is not known since the admissions are made through the Directorate of Technical Education. However, based on the opening cut off marks for a particular programme, the indication is obtained to either increase/decrease the intake for the programme.

The number of students admitted in UG and PG programmes for the academic year 2015-2016 is shown in the table below:

Programmes	Number of applications	Number of students admitted (2015-2016)	Demand Ratio
UG:			
1. B.E. Civil Engineering	Admissions are made through DoTE, Govt. of Tamil Nadu	111	NA
2.B.E Mechanical Engineering		180	
3.B.E Electrical and Electronics Engineering		118	
4. B.E. Electronics and Communication Engineering		179	
5. B.E. Computer Science and Engineering		121	
6. B.Tech. Textile Technology		61	
7.B.Tech. Information Technology		59	
8. B.E. Mechatronics Engineering		60	
9.B.Tech. Fashion Technology		58	
10.B.Tech. Biotechnology		60	
11. B.E. Electronics and Instrumentation Engineering		57	
12. B.E. Aeronautical Engineering		59	
13. B.E. Automobile Engineering		62	
PG			
1. M.E. Industrial Engineering	Admissions are made through DoTE, Govt. of Tamil Nadu	11	NA
2. M.E. Computer Science & Engineering		19	
3. M.E. Communication Systems		14	
4. M.E. Applied Electronics		13	
5. M.E. Energy Engineering		9	
6.M.Tech. Textile Technology		0	
7. M.E. Structural Engineering		18	
8. M.E. CAD/CAM		9	
9. M.E. Power Electronics & Drives		13	
10.M.Tech. Apparel Technology		0	
11.M.Tech. Biotechnology		7	
12. M.E. Embedded Systems		13	
13.MCA		47	
14.MBA		180	

2.1.7 Was there an instance of the College discontinuing a programme during last four years? If yes, indicate the reasons.

No.

2.2 Catering to Student Diversity

2.2.1 Does the College organize orientation / induction programme for fresher? If yes, give details of the duration of programme, issues covered, experts involved and mechanism for using the feedback in subsequent years.

Yes.

a. B.E./B.Tech.

Engineering Immersion Boot Camp (EIBC) for freshers is conducted to make the freshers comfortable with KCT campus life and committed in pursuing the Engineering programme.

The objectives of the Boot Camp are

Higher Education – To remove the mold of school educational system and introduce them into Higher Educational culture

Technical Education – To introduce them into the concept, potential and objectives for technical education

Goal Setting – To help the students define their path ahead

KCT Introduction and Orientation – Students will be introduced, oriented and immersed into the Legacy, Culture, Values, Objectives, Systems and Expectations of KCT.

Induction into the Specific Course– Freshers will be introduced to the course of their choice, its curriculum, regulations and prospects.

Details of the Programme

EIBC is organized for 3 days and the above mentioned objectives are broadly discussed through group discussions and immersions. After the formal welcome of B.E. /B.Tech. freshers on Day One, parents are oriented about the legacy and focus of the Institution that aims to fulfill the dreams and aspirations of the students.

In the afternoon on the same day, the students are taken to their respective Departments and the different avenues open for them to explore and excel in their chosen field of interest are discussed. In the evening, the freshers are divided into different batches,

called Brigades, for the Engineering Immersion Boot Camp conducted on the following two days. The objective of the camp is to guide the Engineering aspirants to have a smooth transition from school to college, understand the nuances of engineering education and graduate as engineers.



Orientation Programme -Engineering Immersion Boot Camp (EIBC) 2015

Format of EIBC

Alumni - Student Lead – Faculty Facilitated

An immediate passed out Alumni leads the efforts in coordination with current 4th and 3rd years facilitated by a faculty.

Mixed Small Groups

The entire plan is built on segregating the entire batch into 30 Groups. The initial part of the EIBC has interdepartmentally mixed group with heterogeneous gender, geography and school background.

Conversation is the Language – Mood is the Activity

EIBC is built on a format of conversations to ensure there is engagement and discussion. The Lead team introduces most of the objectives, then the group immerses into conversation about the objectives to bring out an understanding. EIBC tries to ensure that students are in a mood of activity based understanding.

Architecture of EIBC Format and Grouping

Each Subdivided Group has the following structure:

Brigade 1 – Each of the 40 Sub Groups are named differently and has the following positions:

Brigade Major – An Alumni and lead member is responsible for the 3 days and ensures that the objectives of the EIBC are achieved for his/her Brigade.

Brigade Captains– 2 or 3 students of the current 3rd and 4th year are the Brigade Captains.

First Captain – Ensures all infra, support needs for the Group during EIBC.

Second Captain – Ensures that every cadet is present, engaged and involved.

Brigade Cadets– Every fresher is called a Cadet and together they form a Brigade

Lead Cadet 1 – To ensure cadets are involved and engaged.

Lead Cadet 2 – To support Major and Captains.

Lead Cadet 3 – Time Management and ensuring the delivery of expectations.

Brigade Marshall - A faculty who facilitates, enables, ensures and supports the process.

Selection - Formation of the Brigade

A Brigade is formed by a systematic selection from a smart segregation with an objective to formulate an interesting mix that brings about discussion, comfort, engagement for future study and work.

A proper Brigade has a mix of people in the following manner:

Geography– Rural and Urban, Districts

Language– Medium of Study, Mother Tongue

Admission– Counseling and Management Quota

Gender– Male and Female

Department – Ensure there is a good mix of departments

This process is done preferably through an IT process but it is done otherwise manually.



Engineering Immersion Boot Camp (EIBC) 2015 – Brigade 37 Group

b. PG (M.E./M.Tech./MCA)

The orientation programme for PG students are conducted in the respective Departments for one day. The agenda of the orientation programme includes:

- Welcoming the freshers.
- Overview of the Department by HOD.
- Presentation on regulation, curriculum, and outcome based education, laboratory facilities and career opportunities by senior faculty.
- Interaction with senior faculty and students.

c. MBA

The college organizes orientation programme for freshers of the MBA programme, the duration of the program is for two days. The orientation programme gives them an opportunity to meet faculty members, seniors and it is also used as a platform for interaction between parents and the business school. Feedback is collected and used for future programme agenda.

The Orientation starts with:

- Welcome address
- Overview of KCT & Felicitation
- Inaugural Address
- Hostel facilities & Guidelines
- Life at KCT
- Parents One O One
- Panel Discussion- Alumni & Industry
- Grooming and Etiquette
- Life style and health

2.2.2 Does the College have a mechanism through which the "differential requirements ofstudent population" are analyzed after admission and before the commencement ofclasses? If so, how are the key issues identified and addressed?

Yes. The Institution has a system of profiling to identify the differential requirements of student population.

a. Profiling

Profiling is a data collection plan of a student. It is done as one gets admitted into the Institution for UG and PG programmess. The details are collected in different titles as General, Academic, Personal background, Extracurricular, Future interest, Admission, Expected infra and Process.

Students fill these online by themselves, once they get into the Institution i.e. in their first year and assisted by profiling coordinator. Most of these are options that the system will let them choose, but a few can be written where they required to provide details.

This is done with the intention to have a detailed background on a student and to help groom their personality, preparing them to be a better engineer. Further, details are added as CARE 360^0. The class advisors are given rights to upgrade the profile of an individual at every level of their accolades.

Profiling is done for the last two years and will be carried for the further years.

Apart from the student profiling, Student Record (ISO Document ACD16A(01)) is prepared for each student and it is maintained throughout the programme. The record has the following details:

- Higher secondary course (Academic/Vocational)
- Cut-off Marks
- Quota through which admission was made (Government Quota/ Government Quota (First Graduate)/Management Quota)
- School Studied
- Board of School
- Medium of Instruction
- Community
- Place of Residence
- Parent Details
- Mother Tongue
- Blood Group
- Rural / Urban background

Data Analysis: Based on the data, special classes are conducted for the students to enable them to cope with the curriculum. Based on medium of instruction, Vocational Stream in

HSC and Biology at plus two, the students are given coaching on Technical English, Basic Maths and Science and C programming respectively.

Pre-Assessment Test: A pre-assessment test is conducted. This will enable to identify the areas where students may require extra assistance.

b. Lateral Entry students

From the observations made on students admitted through lateral entry scheme during the past, the following key issues have been identified and are addressed:

Lack of Programming Skills –Bridge courses are conducted to enhance the Programming skills of the students during third semester of their study.

Rural Background - Students hailing from rural background are required to overcome their language barriers and also improve their soft skills. To improve the communication skills, the Language Laboratory is made open to all students.

Mathematics/ English - Lateral entry students admitted in the third semester are given special attention by arranging special classes for subjects like Mathematics and Technical English.

BEC Course - Business English Certificate (BEC) is conducted to help the students to develop a wide variety of communication skills in English which will allow them to handle challenging situations in a professional manner. It addresses grammatical skills as well as improves business English vocabulary. Hence, the students gain confidence and acquire necessary communication skills.

2.2.3 Does the College provide bridge /Remedial /add - on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty- wise?

Yes, the college provides bridge, remedial and add-on courses to the students. Remedial / special classes are conducted after working hours.

a. Bridge Courses

i) UG (B.E./B.Tech.)

Bridge courses are conducted for the first year B.E./B.Tech students to facilitate a smooth transition to imbibe Engineering education. Bridge courses are focused on developing the competency of the students through intensive training in Mathematics, English, Computer

Science, Physics and Chemistry. An online pre-assessment test is conducted to evaluate their aptitude and reasoning ability, learning style and personality traits. Based on the performance of students, they are categorized as:

Blue – Advanced

Red – Intermediate

Green – Beginner

Syllabus for each group is distinct. Course contents of Bridge courses are:

English - Word building, Simulating real-life situations, Paying attention to detail by watching Movie (Activity after watching movie), Short presentations on interesting general topics, Hints Development, Pronunciation practice

Mathematics - Matrices, Vector algebra and Solution of system of equations, Differential Calculus, Integral Calculus etc.

Chemistry - Basic Concepts of Chemistry, Thermodynamics, and Environmental Chemistry.

Physics - Electronics, Magnetism etc.

Computer science - C Language Basics, Arrays and Strings, Functions including recursion, Storage classes and Pointers, and most significant basics of computers.

At the end of bridge courses, an online post assessment test is conducted.

ii) MBA

The bridge courses are conducted for first year MBA students for 10 days and it covers the following topics:

- How to ace assignments
- Technology enabled learning-module
- Knock out presentation
- Framework for analyzing cases
- Can I be Entrepreneur
- Skill enhancement for placement
- Basis of accounting
- How to make oral /PPT presentation
- How to learn from peers
- Essentials of pre course reading
- Creative Thinking
- Introduction to value added courses
- Tips to use social media
- How to write Thought paper
- Technology enabled learning
- New reading
- How to read the course plan
- How to participate in Institution administration
- How to use library and on line journals
- How to build managerial skills

iii)Lateral Entry Students

Bridge courses are conducted for lateral entry students immediately after they join in the second year, to enable smooth transition into college study from polytechnic college. The bridge course includes the following:

- Engineering Mathematics
- Physics
- Technical English
- Programming fundamentals

b. Remedial and Special Classes

At the end of internal tests, the list of students who failed in the courses are prepared and analyzed. Based on the requirement of the students, remedial classes are conducted. If students fail in the analytical courses, special classes for mathematics are arranged to improve the performance in the respective courses. The performance of the students in the internal test are sent to their parents through SMS and for the students parents not having mobile number ACD 15 format is prepared and sent to their parents by the class advisor.

Remedial classes are conducted for the students who failed in the end semester examinations to facilitate them to get pass in the arrear examinations. Special classes are conducted for slow learners. Remedial classes and special classes are conducted for the students after working hours.

Details of remedial classes are given in 2.2Annexure I

c. Add-On Courses

One credit courses: Students can opt for one credit industry oriented courses for a minimum of 15 hours duration, which will be offered by experts from industry on specialized topics apart from prescribed courses of study of the programme. Students can complete such one credit courses during the semesters 5 to 7 as and when these courses are offered by any of the departments. There is no limit on the number of one credit courses a student can register and successfully complete during the above period.

List of One Credit Courses

i) UG(B.E./B.Tech.)

Sl. No.	Course Title	Industry that will offer the course
Department of Aeronautical Engineering		
1.	U14AEIN01 – Wind Turbine Design and Testing	Wind Turbine Industry
2.	U14AEIN02 – Theory and Practice of Aeronautics with Industrial Applications	Aerospace Industry
3.	U14AEIN03 – Aircraft Design Approach	Aerospace Industry
Department of Automobile Engineering		
1.	U14AU*I*N01- Overview of Motorsports Engineering	Automobile Industry
2.	U14AU*I*N02- Automotive Styling	Automobile Industry
3.	U14AU*I*N03- Electronic Engine Management Systems	Automobile Industry
4.	U14AU*I*N04- Vehicle Service Management	Automobile Industry
5.	U14AU*I*N05- Vehicle Maintenance	Automobile Industry
Department of Civil Engineering		
1.	U14CEIN01- Total Station Survey	Construction Industry
2.	U14CEIN02- Tender Document Preparation	Construction Industry
3.	U14CEIN03-Building Bye-Laws And Approval Drawing Preparation	Construction Industry
4.	U14CEIN04-Construction Planning Using Software	Construction Industry
5.	U14CEIN05-Green Building Audit	Construction Industry
6.	U14CEIN06-Environmental Quality Modeling	Construction Industry
7.	U14CEIN07-Application Of Remote Sensing And GIS In Civil Engineering	Construction Industry
8.	U14CEIN08-Introduction To Indian Traditional Architecture	Construction Industry
Department of Computer Science Engineering		
1.	U14CSIN01 Computer Crimes, Security and Cyber Laws	HCL Technologies
2.	U14CSIN02 Business Analytics	HCL Technologies
3.	U14CSIN03 Ethical Hacking	HCL Technologies
4.	U14CSIN04 Linux System Administration	HCL Technologies
Department of Electrical and Electronics Engineering		
1.	U14EEIN01 Electrical Systems in Automobile	Dept. of Automobile, KCT

2.	U14EEIN02 Civil Construction for Power System	Dept. of Civil, KCT & TNEB
3.	U14EIIN02 DCS Fundamentals And Industrial Communication Protocol	Dept. of E & I, KCT, YOKOGAWA India Ltd.,
4.	U14EEIN03 Siemens Course	Dept. of E & I, KCT
5.	U14EEIN04 Emerging Technologies in Solid State Drives	M/s, Versa Drives, CBE
Department of Electronics and Communication Engineering		
1.	U14ECIN01 Analog Applications	STEPS Knowledge Services P Ltd, Coimbatore
2.	U14ECIN02 Real Time Systems	STEPS Knowledge Services P Ltd, Coimbatore
3.	U14ECIN03 Mixed Signal Controllers	STEPS Knowledge Services P Ltd, Coimbatore
4.	U14ECIN04 Cloud computing	eHelium, Chennai
5.	U14ECIN05 Internet of Things(IoT)	STEPS Knowledge Services P Ltd, Coimbatore
Department of Electronics and Instrumentation Engineering		
1.	U14EIIN01 Programmable logic controller	Siemens Limited Registered & Corporate Office 130, Pandurang Budhkar Marg, Worli, Maharashtra, Mumbai – 400 018
2.	U14EIIN02 DCS fundamentals and Industrial communication protocol	Yokogawa India Limited. No 115 Kothari Building 2nd Floor, Mahatma Gandhi Salai, Nungambakkam, Chennai - 600034,
3.	U14EIIN03 Field instruments and process control instrumentation	Honeywell Automation India Limited. EON Free Zone, Kharadi, Pune, Maharashtra - 411014

Department of Mechanical Engineering		
1.	U14MEIN01 Advanced Geometrical Dimensioning and Tolerancing	1.TUVRheinland 41, Shristi Mahal, II Level, 8th Street, Tatabad Coimbatore Ho, Coimbatore – 641001. 2. UMS Technologies Ltd 1062,Gopal Bagh, Avinashi Road, Coimbatore 3.COINDIA CAD Solutions COINDIA Complex (Near SiTARC), 1st Floor, 340/342, Avarampalayam Road, K.R.Puram (po), Coimbatore **4.The Coimbatore Productivity Council** "Vyshnav Building"(4th Floor), Opp. K.G. Big Cinemas, 95-A, Race Course, Coimbatore-641018.
2.	U14MEIN02 Implementation of statistical process and control	
3.	U14MEIN03 Lean for world class manufacturing	
4.	U14MEIN04 Good shop floor practices for manufacturing excellence	
5.	U14MEIN05 Team Dynamics	
6.	U14MEIN06 Lean management tools	
7.	U14MEIN07 Value stream mapping for improving process performance	
8.	U14MEIN08 Value Engineering- Concepts and Applications	
Department of Mechatronics		
1.	U14 MCIN01 Laboratoryview Associate Developer	National Instruments
2.	U14 MCIN02 Robot Certification	Fanuc Robotics, ABB Robotics, KUKA Robotics
3.	U14 MCIN03 CAD software	Autodesk, Catia, Solid works, Pro E
4.	U14 MCIN04 PLC certification	Siemens, Allen-Bradley, Fanuc
Department of Biotechnology		
1.	U14BTIN001 Dairy Technology	Sakthi Dairy, Pollachi
2.	U14BTIN002 Mushroom Technology	Mushroom Foundation of India, Coimbatore

3.	U14BTIN003 Pilot plant and Industrial Fermentors	Golden Bioculture, Tiruchengode
4.	U14BTIN004 Bioethanol Technology	Sakthi Sugars, Appakudal
Department of Fashion Technology		
1.	U14FTIN01 Design of experiments	Research Institute/consultants
2.	U14FTIN02 New trends in printing	Apparel Industry
3.	U14FTIN03 Waste elimination and value stream mapping in apparel industry	Apparel Industry
4.	U14FTIN04 Application of six sigma in apparel manufacture	Apparel Industry
5.	U14FTIN05 Certification procedures for product and process in apparel industry	Apparel Industry/ Certification Agencies
6.	U14FTIN06 Sewing machinery dynamics	Apparel Machinery Manufacturers/ Suppliers
7.	U14FTIN07 Draping Techniques	Designers
8.	U14FTIN08 Recent Industrial Engineering Practices in Apparel Industry	Apparel Industry/ Consultants
Department of Information Technology		
1.	U14IT*IN*01Innovation and Entrepreneurship	California State University, Northridge
2.	U14IT*IN*02 ERP and Business Applications	Charan Software, Coimbatore
Department of Textile Technology		
1.	U14TX*I N*01 – Work Study in Sewing Line	Garment Industry
2.	U14TX*I* N02 – Retail Management	Garment Industry
3.	U14TX*I* N03 – Fancy Yarns	Spinning Industry
4.	U14TX*I* N04 – Erection and Commissioning of Textile Machines	Spinning Industry
5.	U14TX*I* N05 – Workload and Work Assignments	All Textile Industry
6.	U14TX*I* N06 – ERP in Textiles	All Textile Industry
7.	U14TX*I* N07 – Export Documentation	All Textile Industry

ii) MBA

Add on- Certification Programs offered in the MBA department are:

- Lean Six Sigma Green Belt-two programs by Juran, Head quartered at Connecticut, USA,

- Lean Six Sigma Yellow Belt- two programs by Juran, Head quartered at Connecticut, USA
- NSE's Certification in Financial Markets (NCFM) by National Stock Exchange of India Limited
- Tally 9.3 by the Institute of Computer Accountants
- Corporate Taxation by the Institute of Computer Accountants
- Competency Mapping & Development by Staff & Faculty of KCT Business School &Sakthi Sugars
- Sales Management & Selling Skills by Retailers Association of India
- Certified Recruitment Analyst by Middle Earth HR, Mumbai
- Diploma in Banking and Finance- two programs by Indian Institute of banking & Finance
- Laws Relating to Industrial Relation by Coimbatore Productivity Council
- SAP, eDrishyaa IT India Pvt. Ltd., Coimbatore
- Corporate Taxation, Institute of Computer Accountants, Coimbatore
- International Logistics , CII, Chennai
- Business Analysis , International Institute of Business Analysis, USA
- Performance Management System , Human Resource Development Centre, New Delhi
- Psychometric testing , Human Resource Development Centre, New Delhi

2.2.4 Has the College conducted a study on the incremental academic growth of different categories of students; - student from disadvantaged sections of society, economically disadvantaged, physically handicapped and slow learners etc.? If yes, give details on how the study has helped the College to improve the performance of these students.

Yes. Students of each class are categorized into A, B and C based on their academic performance. Remedial classes are conducted for the students having arrears and special classes for slow learners.

The Institution has Ward-Counselor system to mentor the students. A group of students are attached with a faculty of the Department who acts as a counselor. The students from disadvantaged sections of society, economically disadvantaged, physically challenged

and slow learners are monitored and their improvement is taken care of by the Ward - Counselor.

The Class Advisor, Ward - Counselor and programme coordinator regularly monitor and counsel different categories of these students and motivate them to improve their academic performance.

The students of **disadvantaged sections of society** are encouraged by awarding **Mahatma Gandhi Merit Scholarship.** Mahatma Gandhi Merit Scholarship is given to1/6th of the actual strength in each class. For this award, 20% of eligible students are from SC/ST community for the I year B.E./B.Tech and all M.E./M.Tech/MBA and 17% for the II, III and IV year B.E/ B.Tech./MCA.

Economically disadvantaged students are encouraged to get Government scholarships and fees concession is given by the Institution. This has improved the performance of the students leading to a higher success rate.

2.2.5 How does the Institution identify and respond to the learning needs of advanced learners?

The Institution offers scope for advanced learners. They are identified by :

- CGPA obtained in the end semester examinations and performance in the internal tests.
- Attitude and performance in the class room.
- Class room interaction.
- Participation in Departmental activities.

For the fast learners:

a. Fast track system is introduced for advanced learners. The students could enroll for one additional course from 5th to 7th semester of the programme, giving them the academic flexibility and allow them to do full time project work or internships in industries or R&D establishments, during 8th semester of the programme.

b. iQube functioning in the campus helps them to develop their innovative ideas into prototype thus helping them for patenting and commercialization of the product.

c. Super 60 is a project to identify and nurture the top 60 students of KCT class of 2016 with high motivation and initiation towards developing a meaningful, impactful career. The expected outcome is to find career opportunities in top notch differential companies that provide better salary, enhanced position or greater impact.

d. Discover Your Destination Campaign (DYDC) is an initiative of the placement cell to enable the student to choose the right career based on his/her strengths and passion. DYDC is carried out with different stages.

Stage 0: The concept note with modules are prepared and the placement coordinators of all the departments are given an overall training for conducting this program effectively and efficiently.

Stage 1: The students are given exercises for introspection & knowing oneself. Efforts to build the student`s aspiration and to build trust and bonding between the placement coordinators and students are carried out.

Stage 2: Awareness about various avenues for the student as he moves out of the college is attempted to be clarified during this session. At the end of this stage the student is able to decide whether they want to register for the placement process or to opt out for other choices.

Stage 3: A pre-assessment test is carried out in order to understand the students' capabilities and to help them refine it further.

Stage 4: Intensive training as per the requirements of students at different levels is imparted during this stage.

Stage 5: A post-assessment test is carried out that covers the aptitude tests as required by various companies.

Stage 6: An entry test to decide if a student is eligible for placement is carried out. Only those who clear this stage are inducted into the actual placement process. Students are given only few chances to clear this stage.

e. The advanced learners are encouraged to participate in project/design competitions and workshops, conferences and enroll in one credit course / on-line course.

2.2.6 How does the Institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

The college caters to the needs of differently-abled students by the following means and ensures adherence to government policies.

- Their mobility inside the college is ensured by providing ramps and lifts.
- Convenient rest room facilities are provided both in the campus and in the hostels.
- Wheel chairs are available in the campus.
- Differently-abled students are permitted to use their tailored vehicles within the campus.
- The college has a hospital for immediate medical assistance within the campus.
- Examinations are conducted in the ground floor for physically challenged students and classrooms are also allocated in the ground floor where possible, considering the need of the students.
- Scribe facility is also provided.

2.3 Teaching-Learning Process

2.3.1 How does the College plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan and evaluation blue print, etc.)

a. Academic Calendar

The Academic calendar is prepared prior to the beginning of every academic year with the following details: Reopening date, last day of instruction class, schedule of internal tests retest for eligible students, model practical examinations, submission of project reports, end semester practical exams, end semester theory exams, project viva voce and the like.

b. Timetable

The timetable is planned well in advance before the commencement of classes for each semester. The timetable is planned for five days of the week, 8 periods of 50 minutes duration each. Day order time table is given for working Saturdays. There is a time table coordinator for the Institution who ensures that the workload to every faculty member is as

per the prescribed norms. The time table incorporates Ward-Counselor Meeting, Library period, class room allocation, faculty assigned for theory, practical and tutorial classes.

c. Course plan (ISO Document ACD03 /ACD 04)

At the beginning of each semester, once the courses are allocated, the faculty members prepare a course plan of the course and it is reviewed and approved by the Head of the Department. The course plan includes Course outcomes, Mapping of course outcomes with programme outcomes, topics to be taught, teaching aids for each topic, number of periods allocated to cover each topic, assignment and minor projects for the courses, references and any deviation in the lesson plan is recorded.

Course plan (Sample) is given in 2.3Annexure I

d. Evaluation Methods

The total mark for each course (Theory and practical) is 100, comprising two components as given below:

Continuous Assessment Marks (CAM) - 50 Marks
End Semester Exam (ESM) - 50 Marks

The performance of the student is continuously assessed by internal tests and model exam. The evaluation blue print for regulations R2009, R2013, R2014 and R2015 are available in the KCT website.

2.3.2 Does the College provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?

Yes.

a. Course outlines and Course Schedules

At the beginning of each semester, once the courses are allocated, the faculty members prepare a detailed plan of the course delivery which includes:

- Syllabus along with list of prescribed text and reference books and websites
- Detailed course schedule, which includes topics to be covered, modes of delivery planned, number of periods allocated for the topics.
- Types of assignment.

- Course Outcomes.
- Mapping of course outcomes and programme outcomes.

b. Effectiveness of the process

Attendance details of the students and topics covered in the class are logged into the Management Information System by the faculty and reviewed by the Head of the Department periodically. A course committee is formed comprising of all the faculty handling the course, with the senior most faculty being the course coordinator. The course committee meets 2 or 3 times in a semester to prepare the lesson plan, decides the portions for the internal tests, assignment patterns and periodically review the attainment of course outcomes.

There is an interaction between representative students and faculty members handling the classes in the class committee meeting which is held twice in a semester. In the class committee meetings, feedback is obtained from faculty and students on syllabus coverage, content delivery, assessment and evaluation and any other matter related to academics as well as co - curricular and extra - curricular activities.

An Academic Audit is conducted once in a semester to audit the course file. The course file consists of lesson plan, course material prepared for that particular course based on the lesson plan, tutorial problems for analytical courses, contents beyond the syllabus, assignments, sample internal test papers and old question papers.

Internal ISO audit is conducted twice in a year and external surveillance audit is conducted once in a year. In these audits, the quality of the teaching learning process and continuous improvements are reviewed.

2.3.3 What are the courses, which predominantly follow the lecture method? Apart fromclassroom interactions, what are the other methods of learning experiences provided to students?

Almost all the courses except laboratory courses and projects need the conventional lecture methods. Apart from these, the following are the other methods being practiced in the campus for the better learning experiences:

- Tutorial
- Hands on/ Demonstration
- Quiz
- Group Discussion
- Seminars/Workshops
- Guest lecture
- Alumni Interactions
- Assignments

- Modelling
- Presentation
- Survey Camps
- Minor/ Major projects
- Field visit

The field visit includes:

Industrial visits: The students are encouraged to visit industries once in every year so that they get practical experience of learning how things are applied in industries.

In-plant Training: The students are encouraged to undergo in-plant training during vacations which will improve their skill towards industrial culture.

Internships: The final year students are allowed to go on internship in various companies and do projects. This will bridge the gap between the Institution and industry practices and make the students more employable once they are graduated.

2.3.4 How "learning" is made more student-centric? Give a list of participatory adopted by the faculty that contribute to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

Apart from regular lectures, the Institution is more interested in active learning which contributes to the holistic development and improved self learning. College follows OBE, which focuses on learner-centric approach in terms of Graduate Attributes, in all the UG and PG programmes. Multiple choice questions are included in the question paper which helps the students in attending competitive examinations and placements.

a. **Tutorial periods** for analytical courses are planned in which the students are given problems related to the course. Individually or forming a team, the students solve the given problems with the help of the faculty. By the end of the session, the solutions are discussed for all the problems.
b. **Assignment Patterns** introduced in regulation R2014 and R2015 make the students actively participate in the learning process and the self learning ability of the students is improved. GATE exam questions are given in the written assignments to improve the problem solving skills. Any one of the following assignment pattern is followed for each course:
    - 2 Written Assignments
    - 1 Written Assignment + 1 Presentation
    - 1 written Assignment + 2 Written Objective Types
    - 1 Minor Project
    - 2 presentation

The presentation part of the assignment improves the presentation skills of the students which are useful during placement.

Group Presentation ensures the effective participation of students in the presentation and makes the students interactive.

Minor Project as a part of assignment makes the students to understand the course in a better way and able to apply the knowledge in the real time applications.

Apart from the assignments, student participation in learning is improved by motivating the students to:

- Take up Industry projects
- Go for Internships
- Participate in design / project contests
- Undertake Industrial visits and training to know about contemporary industrial practices.
- Apply for funded projects
- Present technical papers in conferences
- Participate in other extracurricular activities such as NCC and NSS programmes and various club activities.

2.3.5 What is the College policy on inviting experts / people of eminence to provide lectures/ seminars for students?

The Institution provides budget for inviting experts/ people of eminence to provide lectures /seminars. Honorarium and Travelling Allowance are provided for the invited experts. The Institution has professional societies (ISTE, IETE, IEEE, CSI, IE, SAE, IET and ISA) and Associations under each Department. Under the banner of Department Association and Professional Societies, each Department invites experts in the relevant field of specialization to deliver lectures / seminars which enrich the students' knowledge in advanced topics. State level/ National seminars, workshops are conducted by inviting eminent resource persons from reputed National & International Universities/ Institutes/ Industries/ Research circles. Alumni are also invited to share their experience in the industries.

2.3.6 What are the latest technologies and facilities used by the faculty for effective teaching? Ex: Virtual laboratories, e-learning, open educational resources, mobile education, etc.

The Institution is ready to adapt latest technologies and facilities to be installed and used for the benefit of the students. Following are the technologies and facilities used by the faculty for effective teaching.

- The Institution is selected for Virtual Laboratory Nodal Centre (VLNC) for virtual laboratories.
- All the Departments are well equipped with portable equipment like laptops, OHPs and LCD projectors.
- Multi-media projectors in the classrooms for Power point presentation.
- Faculty can access journals and IEEE Transactions, Science Direct etc.
- E-books can be downloaded.
- Wi-Fi connectivity is available at various places in the campus to facilitate mobile education.
- Webinars and MOOC materials are used by the faculty for effective teaching.
- NPTEL online video lectures.
- Collaboration tool NetOp is used to conduct interactive lectures with live demo.
- Free open source simulators are used to demonstrate core technical concepts viz NS2/NS3.
- Cloud environment (Google Drive) is used to interact with students.
- Conduction of workshop and online test on Free and Open Source Software (FOSS) by IIT, Bombay.
- EDUSAT programme by Anna University, Chennai

2.3.7 Is there a provision for the services of counselors / mentors/ advisors for each class or group of students for academic, personal and psycho-socio guidance? If yes, give details of the process and the number of students who have benefitted.

Yes.

Class Advisor

Head of the Department allots one faculty member to be the Class Advisor for a particular batch of students throughout their period of study. The role of Class Advisors is as follows:

- To motivate and closely monitor the performance of the students

- To build a strong alumni base for the Institution by maintaining a meaningful rapport with students and parents.
- To maintain all important documents of the students for reference/ inspection by all committees.
- To work closely with the ward counselor on matters related to students attached to the ward counselor and update their student record of the students of the class.

Ward Counselor (Mentor)

By guiding and counseling students, teachers can create a greater sense of belongingness amongst our student community. To help the students in planning their courses and for general guidance on the academic programme, the Head of the Department allots a certain number of students to a teacher of the Department who shall function as ward counselor throughout their period of study.

The ward counselor monitors the courses undertaken by the students, checks attendance and progress of the students and counsels them periodically. The ward counselors ensure that each student is made aware of the various options for growth and students are monitored and guided to become overall performers. The ward counselors update and maintain the ward counselor record of each student attached to them. The ward counselors also help the class advisors to update the green card of students attached to them. The ward counselor may also discuss with the class advisor and HoD and parents about the progress of the students.

Student Counselor

The college has a full time Student Counselor. Counselors play a major role in shaping the students who have socialogical and psychological issues. Students are sensitized about the values, usage of social media, cyber crime, keeping up professional boundary with opposite gender.

The Counselor interacts with students who are struggling with the following problems:

- Stress
- Homesickness
- Low self esteem
- Addictions
- Anxiety
- Depression
- Sleep disorder

2.3.8 Are there any innovative teaching approaches/methods/ practices adopted/put to use by the faculty during the last four years? If yes, did they improve the learning? What methods were used to evaluate the impact of such practices? What are the efforts made by the Institution in giving the faculty due recognition for innovation in teaching?

Yes.

Innovative teaching approaches/methods/ practices adopted/put to use by the faculty in the new student centric learning paradigm called OBE.

- Use of animations to trace the working of technical concepts.
- Discussing analogies during lectures to explain technical concepts.
- Mapping the subject topics with current trend and presenting the same as group presentations in the classroom.
- Discussion of real time case studies.
- Use of CBTs, YouTube videos, presentations, and animations.
- Conducting quiz in the core courses.
- Use of intranet web portals in the laboratories.
- Organizing guest lectures and workshop for programming papers with industry experts/alumni.
- Industrial visit for current updates.

Improvements in the learning

Improvements are visible in terms of:

- Involvement of students in submitting the assignments and problem solving.
- Student participation in inter-collegiate competitions that include paper presentation, poster presentation, project presentation.
- Participation in National and International conferences and symposia.

Methods used to evaluate the impact of such practices

- Academic performance
- Feedback from students, alumni and employer.

Faculty Recognition

Innovative teaching methodology used is one of the components of the Performance Appraisal and Development System (PADS) to evaluate the performance of the faculty. Research makes the faculty member become competent in teaching and hence the faculty members are recognized by distributing awards on Teacher's Day for publication of papers in National and international Journals and completion of Ph.D. Faculty members are also

awarded for getting funds for students' projects and research projects from external agencies. Faculty is awarded 'Engal Asan' who is selected by students through online voting as a part of Teacher's Day celebrations. Dr.Radhakrishnan award is given to selected faculty based on their contribution to research and academic activities.

2.3.9 How does the College create a culture of instilling and nurturing creativity and scientific temper among the learners?

To nurture creativity and scientific temper among students, the college has various initiatives as below:

- To augment critical thinking among students, various group discussions, debates, exhibition, seminars, workshops are organized. In addition, students also participate in seminars and present papers on new ideas/emerging areas.
- Students are encouraged to actively participate in various clubs activities.
- Institution motivates students to take up industry defined problems for their projects.
- Alumni members in India and abroad are invited to interact with the students and share their experience.
- Minor projects are carried out as prescribed in R2014 and R2015 in every semester.



Mini Project Contest Level - II organized by Department of Electrical and Electronics Engineering held on February, 2016

The following clubs are actively involved in inculcating and imparting skills to nurture creativity:

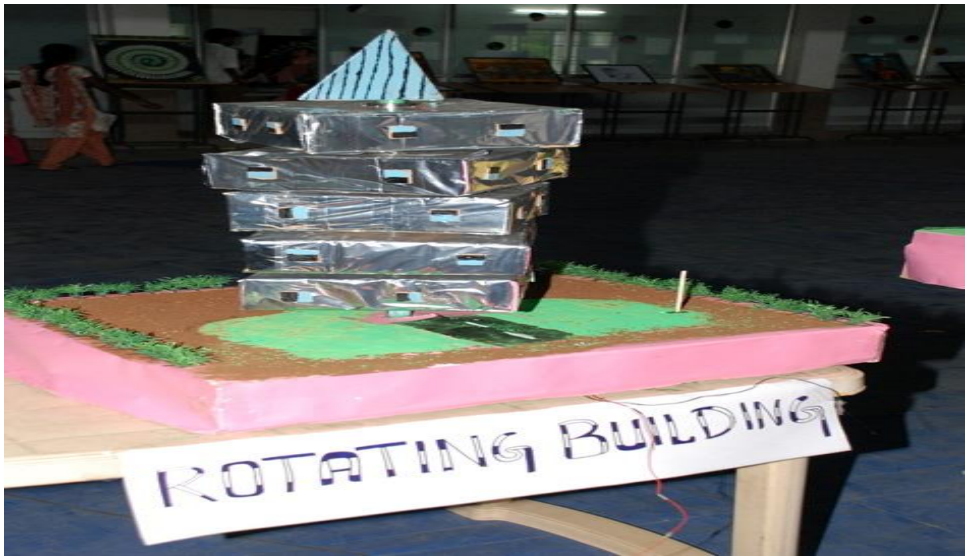
a. Kumaraguru Innovators Club (KIC) is a student initiative towards innovation, started in the year 2013 exclusively for I year under graduate students. The members work towards learning new technologies through innovations which would be beneficial to the society.

SCIFEST is conducted by KIC in association with Department of Science and Humanities. The tagline, "We dream the science that triumphs", sums up the aim of event to bring out the talents of students of the first year. This provides a platform for budding engineers to show their potential in various fields of science and engineering in different scenarios. It is also be an event where the participant self realizes his or her strengths in various arenas of science. In order to achieve our aim, different events are conducted in different themes and of different types from projects to workshops which tune the engineer in each one of the participants.

This is the mega event with a list of 9 technical events and 2 techno- entertainment events namely Project display, Paper presentation, Science Quiz, Workshop on Microcontrollers, Workshop on basic Robotics, Extempore, Minute to win it, Code Chef, Brain Teasers – Neuro Linguistic Program, Art gallery and Photo Gallery. More than 600 students benefited from this event.



Project Display at Science Exhibition SCIFEST, May 2015



Project Display at Science Exhibition SCIFEST, May 2015

b. **iQUBE** is a Technology Incubation Centre at KCT that acts as a mentoring platform for students to realize their ideas into product. iQUBE is specially meant for students to improve and excel in their technical experience. It has a research and development laboratory where one can experiment their idea with available resources in the laboratory. The Thrust Domains of iQube are Robotics, Artificial Intelligence, 3D Designs and Fabrications, Circuit Designs, PCB Design & Fabrication, Audio and Image Processing, Web Development, App Development (Mobile & PC) and Sky Computing.

The activities of iQUBE are:

- Provide work place and guidance to realize ideas into projects.
- Provide funds for innovative and industrial projects.
- Conducts workshops, hands on training and guest lectures to improve the technical skills.
- Organize events like Engineers day and Product design challenge to motivate the students to display their creativity.

c. **KCT Yugam,** an Inter-Collegiate Techno cultural fest event aimed at stimulating the youth to elevate aspirations, fight challenges and to achieve big. The event is an amalgam of workshops, competitions, inspirational talks, music, dance and proshows.



Haptic ARM Workshop as a part of KCT Yugam, February 2016

d. KCT HAM club – Promotes amateur radio operation among students as a useful hobby. The club organizes classes for operating HAM equipment. The club is also involved in obtaining permission from the Government Departments for HAM aspirants.

e. GARAGE- It is a fabrication laboratory and is established with a view to help the students with their projects. It is also the place where the Supra, Baja and Efficycle teams fabricate their vehicles for the Society of Automotive Engineers (SAE) events.

f. SAE COLLEGIATE CLUB KCT – A student enrolls in this club by paying the fee subscribed by SAE India. The members of this club get access to SAE International programmes and services globally enabling them to practice world class standard productivity and quality. It provides a forum for members to informally exchange ideas on technology and other modern concepts. It provides a student platform where they can apply their theoretical knowledge to involve in SAE projects such as BAJA, SUPRA, EFFICYCLE and other competitions.

g. The college has various student forums/ clubs to inculcate fraternity, leadership and team work in the young minds allowing them to explore beyond the fixtures of curriculum and to improve their social skills.

2.3.10 Does the College consider student projects a mandatory part of the learning programme? If so, for how many programmes is it made mandatory?

- **Number of projects executed within the college**
- **Names of external Institutions associated with the college for student project work**
- **Role of faculty in facilitating such projects.**

Yes, The College considers student project as mandatory for all the UG and PG programmes. All the UG and PG students carryout Phase-I and Phase-II Projects in the pre-final and final semester of the programme respectively. Besides, Minor projects are carried out as prescribed in the curriculum of R2014 and R2015 in every semester.

The percentage of number of in house and industrial projects is given in the table below:

S.No.	No. of Projects (%)		
	Academic year	In-house	Industry
1.	2015-2016	63.10	36.90
2.	2014-2015	57.60	42.30
3.	2013-2014	66.24	33.77
4.	2012-2013	68.98	31.00
5.	2011-2012	81.61	18.39

Role of Faculty members in facilitating projects:

- Faculty members offer their expertise, ideas and assistance in enabling students to complete their project work.
- Faculty members are also responsible for evaluating the projects of the students through reviews and make suitable recommendations.
- The review committee helps the student to proceed in the proper direction and submit a detailed dissertation in the stipulated time.
- In case of the projects being done in the industry, the faculty guide interacts with the guide in the industry to follow up the progress of the project.

The list of industries involved in student projects are given in 2.3Annexure II

2.3.11 What efforts are made to facilitate the faculty in learning / handling computer aided teaching/ learning materials? What are the facilities available in the College for such efforts?

The Institution makes all the efforts to facilitate the faculty in learning /handling computer-aided teaching/ learning materials:

- Faculty Training Programmes are conducted whenever new systems are introduced.
- Faculty are provided with PCs/ Laptops with internet facility
- Institution has Internet connectivity of 256 Mbps
- LAN connectivity is provided in the campus

2.3.12 Does the College have a mechanism for evaluation of teachers by the students / alumni? If yes, how is the evaluation used in achieving qualitative improvement in the teaching-learning process?

Yes, Feedback is obtained from the student on each course by the class advisor twice in a semester (middle and end of the semester). Feedback is given by the students regarding the performance of faculty.

Feedback collected from students is analyzed based on the following metrics:

- Class room delivery
- Level of preparedness / Understandability of lectures
- Teaching aids
- Involvement and promptness in correcting test / assignment papers
- Ease of maintenance of order
- Temperament
- Intellectual stature
- Integrity (honesty, impartiality, fairness)

The following is inferred from the metrics:

- Quality of teaching
- Teaching effectiveness
- Maturity of the faculty
- Overall performance

The feedback is reviewed by Head of the Department and corrective action is taken, if necessary.

Induction Programmes are conducted to the new faculty members to become good and effective teachers. Senior faculty members share their experiences with the junior faculty.

The Institution has launched KCT Learning and Development Academy (KLDA). The scope of KLDA is to train faculty in Teaching and Learning, Research, Personal Skills, Professional Skills and Leadership. Programmes are conducted by KLDA regularly.

2.3.13. Does the Institution face any challenges in completing the curriculum within the planned time frame and calendar? If yes elaboratoryorate on the challenges encountered and the Institutional approaches to overcome these.

No.

2.3.14. How are library resources used to augment the teaching-learning process?

The main aim of the central library is to provide information services and access to print and e-resources to support the informational needs of the student and faculty community. The fully computerized central library is well equipped with modern facilities and resources in the form of books, printed and electronic journals, CD-ROMs, on-line databases, audio video cassettes, project reports, etc. Open Access System is being followed to access the books and journals.

The library has a collection of nearly 1,03,636 volumes of books, 9,568 back volumes of journals and 4,556 project reports from various branches of engineering, technology and sciences. 178 National and 9893 International print and online journals are being subscribed annually.

The library also has fully subscribed access to the external resources which help the students in project phase to down load the publications for literature survey and provides rich information in preparing articles for conferences and journals. The list of external resources is given below:

- IEEE
- Elsevier (Science Direct)
- INDEST (Indian Digital Library on Engineering Science and Technology)
- McGraw Hill Access Engineering Library
- ASTM Digital Library
- EBSCO (Management)

- J-GATE Electronic Directory Service by Informatics
- BCL (British Council Library)
- ASCE (American Society of Civil Engineers)
- Nature (Nature and Scientific American)
- DELNET (Developing Library Network)

In addition to the well stocked and fully automated central library, each Department of KCT has its own Departmental Library to facilitate easy access to the faculty.

The library is open to staff and students from 8.00 a.m. to 11.00 p.m. on all working days and 8.30 a.m to 4.30 p.m on holidays. The extended working hours enable the students to prepare assignments, presentations. Reprographic facilities are also available in the library.

The final and pre final year students borrow 12 books, second year students borrow 10 books and first year students borrow 8 books. Faculty get 25 books and technical staff get 10 books. A book bank is also available for the students who avail the post-matric scholarship offered by Government of India. Presently 2,047 books are available under this category.

Library has books apart from text and reference books which enrich the knowledge of students and faculty beyond the course content. The Outcome Based Education System forces the students to utilize the library for preparing assignments and presentations. Apart from class room teaching, the students and faculty access learning resources through library services on Internet/Intranet INDEST or other similar membership archives:

NPTEL Courses

IITs and IISc Bangalore have developed curriculum based video and web courses as a collaborative project under the head NPTEL (National Programme on Technology Enhanced Learning). At present it includes 129 web and 110 video courses in engineering, science and humanities. These courses are accessed / downloaded from http://10.1.105.24/localg/

Institutional Repository

Institutional Repository (IR) is a digital archive of an intellectual product created by the faculty and students of an individual Institution and accessible by the users within the Institution in e-form. At present project reports are loaded in the IR. Faculty and students can access the link through the intranet based library website at http://10.1.105.24/opac/index.asp

2.3.15. How does the Institution continuously monitor, evaluate and report on the quality of teaching, teaching methods used, classroom environments and the effect on student performance.

The Institution has a well established system to monitor, evaluate and report on the quality of teaching, teaching methods used, class room environment and effect on student performance.

Monitoring System

a. Head of the Department continuously reviews the record of class work (ACD07) maintained by the faculty fortnightly to confirm adherence to course plan.

b. Class committee Meeting

Every class has a class committee constituted by the HoD. The members of the class committee are:

i) Chairperson (Faculty who is not teaching any course for the class).

ii) All teachers handling courses for the class.

iii) Students (a minimum of 6 consisting of 3 boys and 3 girls on pro-data basis)

The functions of the class committee include the following:

i) Clarify the regulations of the programme and the details of therein.

ii) Inform the student representatives the academic schedule including the dates of assessments and the syllabus coverage for each assessment.

iii) Inform student representatives the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory/ drawing/ project work/ seminar etc.) the breakup of marks for each experiment/ exercise/ module of work is clearly discussed in the class committee meeting and informed to the students.

iv) Discuss and sort out problems experienced by students in the class room and laboratories.

- The class committee meeting is constituted within first week of commencement of any semester.
- The Chairperson of the class committee invites the class advisor/ward counselor and Head of the Department to the meeting of the class committee.
- The Principal may participate in the class committee meeting.
- The Chairperson is required to prepare minutes of every meeting, submit the same through the Head of the Department to the Principal within two days of

the meeting and arrange to circulate the same among the students and teachers concerned. Points requiring action by Management are brought to the notice of the Management by the Principal.

- The class committee meetings are to be conducted within one week from the date of commencement of the semester, one week before the 2nd internal test and one week before the 3rd internal test.
- During the first meeting of the class committee, the students are to be informed about the nature and weightage of assessments as per the frame work of the Regulations. During these meetings the student representatives meaningfully interact and express opinions and suggestions of the students of the class to improve the effectiveness of the teaching – learning process.

c. One period/week is allotted in the time table for Ward-Counselor meeting. The students discuss their difficulty in understanding the course, method of teaching, problems faced in the theory and practical classes with their counselor which enables the effective teaching learning process.

d. Student feedback is obtained from the student on each course by the class advisor twice in a semester (middle and end of the semester). Feedback is given by the students. From the feedback, quality of teaching, effectiveness of the teaching, maturity of the faculty and overall performance are inferred. The HoD reviews the feedback and corrective actions are taken if necessary.

e. Course End Survey is collected at the end of the semester for each course. The students give feedback on syllabus content, delivery methods and assessment methods.

f. Alumni feedback is collected to know the effectiveness of the curriculum vis-à-vis application in their career. They also provide feedback on teaching methodology and other facilities during their course of study.

g. Feedback is obtained from the employer to know the performance of the graduating students from the Institution.

h. The Institution has a Centre for Academic Excellence which conducts academic audit once in a semester. The course file of each faculty is checked during the audit. The course file contains the lesson plan, course material prepared for that particular course based on the lesson plan, assignments given to the students, tutorial problems for

analytical courses, contents beyond the syllabus, assignments, internal test papers and old question papers.

i. The Institution is ISO 9001:2008 certified and surveillance audit is conducted once in a year by the external agency and internal audit is conducted twice in a year.

Evaluation

As a part of continuous assessment, internal tests are conducted. The performance of students in the tests are analyzed and slow learners are identified from first internal test marks. Special classes are scheduled to improve their performance in the next following tests. Results of the end semester examinations are reviewed. Result analysis meetings are conducted by the Principal with HOD and faculty to review the student performance in the end semester examinations which is followed by a discussion to improve the performance of the students. Remedial classes are planned for the students having arrears.

2.4 Teacher Quality

2.4.1 What is the faculty strength of the College? How many positions are filled against the sanctioned strength? How many of them are from outside the state?

Positions of the faculty members are filled considering the workloads and the Student – Teacher Ratio as per the norms of AICTE, New Delhi. The Institution has sufficient number of faculty members as per the required norms. All positions are filled against the sanctioned strength.

Sanctioned Faculty Strength	395 nos
Positions Filled	395 nos
Faculty from outside the state	30 nos

2.4.2 How are the members of the faculty selected?

- Vacancies are identified with respect to the staff-student ratio and cadre ratio, service requirements and specialization.
- Advertisements are published in newspapers and official website regarding the vacancies.
- Faculty selection is based on four step process namely telephonic interview, online test, Technical Interview coupled with class demonstration and personal interview.

- Online tests are conducted to shortlist the candidates. There are two stages in the online test. In Stage one, marks of all candidates appeared for the test are taken and a cut-off mark is decided by the Principal and in stage two, marks are evaluated for the candidates who scored the marks above the decided cut-off marks.
- The short listed candidates who scored above the cut-off mark are called for interview through mail and phone communication.
- The interview panel consists of HOD, senior teaching faculty, inter disciplinary teaching faculty, external academic expert, Alumni and HR team members.
- Candidates will be further shortlisted for personal interview by the Principal and the Joint Correspondent.
- Offer letters and appointment orders are issued to the selected candidates and are appointed on probation basis for a period of two years. Upon completion of the probation period regularization of their service is made after the performance evaluation.
- Promotions are given to internal faculty members once in a year based on the need in the department. Members who satisfy the eligibility criteria are assessed and based on their performance they are promoted.

The format of the selection committee with respect to peer review interview process is as detailed below:

Panel Members

I. For Class Demonstration

1. One Professor
2. Assistant Professor -2nos
3. Fast Track /Good /Average Students – UG or PG (7 nos.) - Students having good score, presented papers, involved in various extracurricular and Co-curricular activities are called for the class demo.
4. HR Team
5. Interview Coordinator of the respective Department
6. Principal / Joint Correspondent

II. For Technical Round

1. Joint Correspondent
2. Principal
3. Head of the Department
4. Professor from other department
5. Alumni member
6. External Academician
7. HR Team

III. For Final Selection:

1. Joint Correspondent
2. Principal
3. Head of the Department
4. HR Team

2.4.3 Furnish details of the faculty

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent Teachers							
D.Sc./D.Litt.							
Ph.D	17	15	15	12	20	12	90
M.Phil	--	--	--	--	18	38	56
PG	4	0	13	12	135	84	249
Temporary Teachers NIL							
Ph.D							
M.Phil							
PG							
Part Time Teachers NIL							
Ph.D							
M.Phil							
PG							

2.4.4 What percentage of the teachers have completed UGC-CSIR-NET, UGC-NET, and SLET exams? In that, what percentage of teachers are with PG as highest qualification?

For engineering colleges, qualifying UGC-CSIR-NET, UGC-NET, and SLET exams are not applicable. However many of the faculty members in the Science and Humanities department are qualified in the above exams and the details are given below.

Percentage of faculty members completed UGC-CSIR-NET, UGC-NET, and SLET exams	10.34 %
In that faculty members having PG as their highest qualification	100%
Faculty members having PhD qualification	8.26%

2.4.5 Does the College encourage diversity in its faculty recruitment? Provide the following departments-wise details.

S.No	Department	% of faculty who are product of the same College	% of faculty from other Colleges within the State	% of faculty from other States	% of faculty from abroad
1	Aeronautical Engineering	-	66.66	33.33	-
2	Automobile Engineering	-	90.90	9.09	-
3	Biotechnology	7.14	78.57	14.28	-
4	Civil Engineering	11.53	80.76	7.69	-
5	Computer Science and Engineering	40.62	59.37	-	-
6	Electrical and Electronics Engineering	13.79	79.31	6.89	-
7	Electronics and Communication Engineering	9.09	81.81	6.81	2.27
8	Electronics &Instrumentation Engineering	8.33	83.33	8.33	-
9	Fashion Technology	35.71	57.14	7.14	-
10	Information Technology	41.17	52.94	5.88	-
11	Mechanical Engineering	8.33	79.16	12.50	-
12	Mechatronics Engineering	33.33	58.33	-	8.33
13	Master of Business Administration	-	82.60	13.04	4.34
14	Master of Computer Science	12.5	87.5	-	-
15	Science and Humanities	-	96.66	3.33	-
16	Textile Technology	26.66	53.33	20.00	-

2.4.6 Does the College have the required number of qualified and competent teachers to handle all the courses for all departments? If not, how do you cope with the requirements? How many faculty members were appointed during the last four years?

Yes. The college has required number of qualified and competent teachers to handle all the courses of all the departments as prescribed by AICTE. Further to bridge the gap between the theory and field practices, renowned guest speakers from various industries and other reputed Institutions are regularly invited to deliver special lectures.

Because of additional intake, introduction of new programmes and migration, faculty members are appointed and the total number of faculty members appointed during the last four years is 234.

Academic Year	No. of Faculty Appointed
2015-2016	48
2014-2015	59
2013-2014	62
2012-2013	65

2.4.7 How many visiting Professors are on the rolls of the College?

Total number of visiting professors of the College is 20. The details of the visiting professors are listed in the table below.

Name of the Department	Name of the visiting Professor	Details of the visiting Professor	Course handled
CE	Dr.T.Sathyamurthy	Director, REACH foundation, Chennai(Rural Education and Conservation of Heritage Foundation)	Traditional Architecture
	Dr.Arun Menon	Assistant Professor, IITM Chennai	
	Dr.Chitra Madhavan	School of Planning and Architecture, Chennai	
	Er.S.Rajendran	Conservation Architect, Tanjore	
	Architect R.Sakthi Murugan	Conservation Architect, Tanjore	
	Prof.G.Balaji	Professor & Head,	

		Department of Architecture, Thiagarajar College of Engineering, Madurai	
EIE	Mr.Vijaya Narayana	Steps Knowledge Pvt ltd. Coimbatore	Microprocessor and Microcontroller Laboratory Aug – Oct 2015
	Mr.Siva Kumar	StarcomPvt ltd Bangalore	Data Acquisition and simulation laboratory Aug – Oct 2015
	Mr.Naveen	VI micro system Bangalore	Data Acquisition and simulation laboratory Aug – Oct 2015
IT	Mr. Planaiappan	Charan Technologies	ERP and its business applications
	Mr. Jimmy Gandhi	California State University	Innovation and Entrepreneurship
MBA	Thiruvengadam SA	COO, V3 Consulting	Supply Chain Management & Business Process Re-engineering
	MohitJaggi	Area Sales Manager-FMCG	Consumer behaviour
	Soundararajan V	GM Learning & development, ELGI Equipments	Training & Development
	Sivarajan SKA	Technical Lead, Nous Infosystem	Software Project management
	Raveendran N	Sr. General Manager, Sakthi Finance	ERP
	Vijayaraghavan R	Head Training, Sakthi Finance	Merchant Banking & Financial Services
	Dr.Shanmugam R	Retired Prof. BSMED	Merchant Banking & Financial Services
	K.Karunanidhi	Chief Life Insurance Advisor, Agent Recruitment Officer Life Insurance Corporation	Insurance & Risk Management
	Prof. Ayyasamy KR	Former Assistant Director RBI	Legal Aspects of Business

2.4.8 What policies/systems are in place to recharge teachers? (e.g: providing research grants, study leave, nomination to national/international conferences/Seminars, in service training, organizing national/international conferences etc.)

The Institution aims at promoting research development, consultancy and other such profession-promotion activities involving the faculty members at various levels as detailed below:

Research grants

- The faculty members are encouraged to apply and get funding for research projects from various nodal agencies like MoEF, UGC, DST, AICTE etc. The faculty members who exhibit initiative and drive by getting substantial grants for R & D work or for strengthening the infrastructure in the institute are suitably encouraged by giving due weightage in Performance Appraisal Development System (PADS) review.
- The faculty members are also encouraged to avail KCT Management Funded Research Project scheme as one of the resources for their research work.
- The Management encourages faculty members to undertake testing and consultancy services by providing 40% of the funds obtained as incentive to the faculty involved.
- Every year the faculty members are awarded for their research publications during the teachers day celebrations.
- Faculty members are encouraged to attend conferences and seminars at national and international levels.
- Special programs are organized regularly by involving scientists and experts from the research institutes at the Institution level.

Study leave & on-duty

- The faculty members are encouraged to pursue Ph.D course. The college also sponsors a registration fee of Rs.10,000/- per year for three years and on-duty is provided during the course for the faculty members registered for Ph.D.
- The College encourages the faculty members to carryout postdoctoral research works at foreign Universities through sabbatical leave.
- The faculty members are encouraged to Fellowship programmes for doing academic research at leading Institutions like IITM.

Nomination to National/International conferences

- Faculty members are permitted to participate and present technical papers in National/International Conferences/Seminars with on-duty and financial assistance for registration fees and travel expenses.

- Faculty members are encouraged to act as Resource persons to chair technical sessions in National/International conferences and to act as Board of Studies members in various Institutions with on-duty.

Service training

- Induction programmes are regularly organized for new/fresh faculty members to enrich the teaching-learning process.
- Training programmes like Infosys Campus Connect programmes and WIPRO mission 10X are organized.
- Training and awareness sessions are conducted on Outcome Based Education (OBE) organized regularly by the Centre for Academic Excellence.
- Experts from reputed Institutions and industries are invited to train the faculty members on Outcome Based Education and to adopt advanced teaching methodologies.
- Outbound training for senior and mid-level faculty is arranged. The details are as follows:

S.No	Title of the Program	Venue	Date	Number of Faculty attended
1	Leadership on "Good to great", organized by KCT in association with Attittya Training & HR Consultants Pvt Ltd, Pune	Hotel Highland, Ooty	21.01.2016 & 22.01.2016	37
2	Faculty Development Program in collaboration with VIT University, Vellore	A Block Seminar Hall, Mechanical Engineering Block, KCT campus	03.09.2012 to 05.09.2012	35
3	Leadership Workshop on Effectiveness and Vision	Karl Kubel Institute for Development Education, Anaikatti Road, Mankarai, Coimbatore – 108	22.01.2010 & 23.01.2010	30



Participants of Outbound training - Leadership on "Good to great" at Hotel Highland, Ooty during 21st and 22nd Jan 2016

Organizing National/international Conferences/Seminars

- The faculty members are encouraged and provided financial assistance to organize National/International Conferences, Workshops, Faculty Development Training Programmes in the Institution.
- Due weightage is given in the PADS review for organizing conferences/seminar by the faculty in the Institution.

2.4.9 Give the number of faculty who received awards / recognitions for excellence in teaching at the state, national and international level during the last four years.

Name of the Department	Name of the faculty with designation	Details of awards / recognitions for excellence in teaching at		
		State level	National level	International level
CE	Dr.G.L.Sathyamoorthy Associate Professor	-	Outstanding Alumni Award - Thiagarajar Polytechnic College, Salem (2013-14)	-
	Dr.K.Ramadevi Associate Professor	-	Outstanding Faculty Award –	-

			Venus International Foundation (2014-15)	
ECE	Dr.A.Vasuki Professor & HOD	Best faculty award in the year 2012-13 from Cognizant Technologies, Coimbatore	-	-
	Dr.M.Bharati Associate Professor	Elite+ Gold Medalist in MOOC course (NPTEL) (2015-16)	-	-
	Dr. Raghav Menon Associate Professor	Elite+ Gold Medalist in MOOC course (NPTEL) (2015-16)	-	-
CSE	Mr. G. Kanagaraj Assistant Professor I	-	Infosys campus connect – Bronze faculty partnership award 2015	-
	Mr. V. Senthilkumar Assistant Professor I	-	Infosys campus connect – Silver faculty partnership award 2015	-
	Ms. G.Shobana Assistant Professor I	-	Best Group Project Award - (Foundation Program 4.0)- Infosys during 2015	-
	Dr. L. Latha Associate Professor	-	Best Ph.D Thesis Award by Computer Society of India during 2014	-
EEE	Mr. B.Karunamoorthi Assistant Professor (SRG)	-	-	IEEE – Best paper award 2015-2016

	Mrs. V.Sharmiladeve Associate Professor	IEEE Best Student Branch performance 2010-2011	-	-
	Dr.R.Kavitha Assistant Professor III	IEEE Best Student Branch performance 2010-2011	-	-
	Dr.R.Kavitha Assistant Professor III	-	Certificate of appreciation for mentoring Texas Instruments project during 2015.	-
FT	Dr. J. Srinivasan Professor& Head	-	Best Engineer Award from IEI (2015-16)	-
	Dr. V. Krishnaveni Assistant Professor III	-	Best Citizen of India Gold medal award (2014-15)	-
	Dr. V. Krishnaveni Assistant Professor III	-	Young Faculty Award – Venus International Foundation (2014-15)	-
	Dr. G. Ramakrishnan Senior Associate Professor	-	Outstanding Faculty Award – Venus International Foundation (2014-15)	-
IT	Dr. Ramalatha Marimuthu Professor & HOD	-	-	MGA leadership award(2012-2013)
		-	-	ABI change agent award (2012-2013)
		-	-	Spring 2014 Systers Pass-It on award (2014-2015)

	Mr.E.A.Vimal Assistant Professor III	-	Infosys-Bronze partnership award (2013-14)	-
ME	P.Sadasivan Associate Professor	Outstanding Fellow in Mechanical Engineering, IEI Coimbatore Chapter	-	-
		-	National foundation for Entrepreneurship Development, during 2013-14	-
MBA	Dr.Mary Cherian Professor	Senior Educator and Scholar award National Foundation for Entrepreneurship Development (NFED) during 2014	-	-
S & H	Dr. P. S. Syed Shabudeen Professor	-	Outstanding Faculty Award – Venus International Foundation (2014-15)	-
	Dr. U.S.Shoba Associate Professor	-	Outstanding Faculty Award – Venus International Foundation (2014-15)	-
TXT	Dr.K.Thangamani Professor	Best Engineer award, Institution of Engineers, Tamilnadu chapter, during 2014	-	-

2.4.10 Provide the number of faculty who have undergone staff development programmes during the last four years. (Add any other programme if necessary)

Academic Staff Development Programmes	Number of faculty			
	2015-16	2014-15	2013-14	2012-13
Refresher courses	56	48	39	32
HRD programmes	22	5	8	5
Orientation programmes	46	24	21	12
Staff training conducted by the College	124	73	51	58
Staff training conducted by University / other Colleges(FDP)	53	70	71	59
Summer / Winter schools, Workshops, etc.	41	100	91	62
Any other (please specify) National / International conference, SDP, STTP	27	60	59	71
Total	369	380	340	299

2.4.11 What percentage of the faculty have

*** been invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies**
*** participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies**
*** presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies**
*** teaching experience in other universities / national Institutions and others**
*** industrial engagement**
*** international experience in teaching**

Department	Particulars of faculty (%)					
	Invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies	Participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies	Presented papers in Workshops / Seminars/ Conferences conducted or recognized by professional agencies	Teaching experience in other universities / national Institutions and others	Industrial engagement	International experience in teaching
AUTO	-	0.1	0.1	0	73	0
AERO	25	83	50	50	25	-
BT	33	87	73	40	7	-
CE	39	58	58	-	7	-
CSE	-	-	13	13	-	-
ECE	8	85	68	10	13	3
EEE	23	93	75	72	23	-
EIE	25	83	50	50	25	-
FT	47	100	100	13	100	-
IT	6	100	65	-	-	-
MECH	16	72	79	65	42	-
MCE	8	92	25	25	25	
MBA	60	26		85	30	5
MCA	11	88	88	68	-	-
S & H	-	47	-	-	-	-
TXT	60	100	100	70	50	-

2.4.12 How often does the College organize academic development programmes for its faculty, leading to enrichment of teaching-learning process?

*** Curricular Development**

*** Teaching-learning methods**

*** Examination reforms**

*** Content / knowledge management**

*** Any other (please specify)**

- Academic development programmes for the faculty members are organized regularly by the Centre for Academic Excellence.
- Experts from reputed Institutions and industries are invited to train the faculty members on Outcome Based Education and to adopt advanced teaching methodologies.
- Training on Open source software and tools are arranged to enrich the teaching-learning process.
- Experts from reputed Institutions and industries are invited to deliver guest lectures on advanced topics in relevant fields of engineering.
- Faculty members are encouraged to attend WIPRO Mission 10X programmes and programmes organized by Infosys Ltd, IBM Technologies etc.

1. Curricular development

- Brainstorming programmes are arranged regularly for the design of curriculum and syllabus development.
- Training and awareness programme on Outcome Based Education are organized.
- Curriculum and Syllabi are formed by Board of Studies with members from NITs, IITs, Anna University Nominee, Experts from reputed Industry and Alumni.
- Faculty Development Programmes are frequently organized for the faculty members to keep them updated with the latest trends in the industry and the societal demands.
- Faculty development programmes, seminars, workshops, conferences in contemporary and novel areas are regularly organized to improve and update the knowledge of faculty members.
- Guest lectures are arranged with the academicians from premier Institutions and experts from industry to develop knowledge on advancements and current technologies.

- The Programme Assessment Committee (PAC) of each department meets at the end of every semester to discuss on changes required in the curriculum and it is also discussed in the Programme Advisory Board (PAB) meetings.
- Industry Interaction meetings are frequently arranged for the faculty to become aware of the curriculum needs of the industry.

2. Teaching-learning methods:

- Faculty Development Programmes are organized every semester to enrich the knowledge in various courses.
- Induction programmes are conducted every year for newly joined faculty.
- Training on Outcome Based Education (OBE) is provided for all faculty members.
- Faculty members are encouraged to attend certification courses from leading training and learning centres like British Council, NIIT, AUTODESK etc.
- Special training is given to the faculty members for setting the internal / end semester examination question papers.

3. Examination reforms which lead to teaching learning process:

A team of members from CoE and Centre for Academic Excellence Department visit the premier Institutions to study the effective examination systems adopted there.

The following reforms have been introduced in the CoE office for the past four years:

- "Revised Blooms Taxonomy" based Question Paper setting is introduced and training on question paper setting to meet Outcome Based Education is done.
- Dummy number system and OMR based evaluation for internal tests / model examinations / end semester examinations have been introduced from the academic year 2013-2014.
- Fast Track Programme is offered for the students who maintain a CGPA $\geq$ 8.5 in each semester continuously and have passed all courses in first appearance. Students can opt for the fast track programme from the Fifth Semester. The three elective courses of the Eighth semester can be taken in the earlier semesters (maximum one per semester) by the students. This will enable the students to be completely free from theory courses in the Eighth Semester. This facilitates the students to pursue internship / industrial projects on a full time basis.

- Supplementary examination system has been introduced for the benefit of the students from the academic year 2014-2015.
- Accelerated mode for completing the eighth semester courses has been introduced for final year students to enable industry internships.
- Management Information System (MIS) has been introduced to monitor the Attendance and mark entry successfully.
- Effective utilization of social media networks like Google drive/ Email / SMS for examination related assignments to the internal and external examiners.
- Non-tearable end semester and consolidated statement of grade sheets with six security features including student photograph have been issued to the students.
- To improve the institute – parent interaction a semester wise Complete Academic Review for Enhancement (CARE 360^0) Report has been introduced from 2015-16 which includes students' performance in end semester examination, extracurricular and co-curricular activities.
- A web portal on KCT website has been created in order to intimate the students regarding their internal test mark, CAM mark, examination seating arrangements and end semester examination results.

4. Content / knowledge management

- Faculty members are encouraged to pursue NPTEL and MOOC conducting courses for updating knowledge.
- They are also encouraged to participate in FDPs, STTPs, workshops, guest lectures pertaining to contemporary themes in the respective areas of engineering and technology.
- The faculty members maintain individual course files for the respective courses taught by them in a prescribed format given by the Centre for Academic Excellence with the following details: Student name list, Syllabus, Course plan, Ice breaking sessions, Course materials like class notes, slides, Assignment questions and corrected copy of assignments, Question papers of internal tests/model exam/end semester exam, Corrected answer scripts of internal tests/model exam and CO assessment with mapping.
- Online journals are made available for easy access of the faculty members.

- Sufficient number of Text, Reference and general are purchased in the library for all courses every year.

5. Other teaching-learning processes

- Faculty members are encouraged to take-up training in industries / Institutions of higher order.
- Faculty members are encouraged to avail Sabbatical leave for any of the industry-institute partnership programmes / faculty exchange programmes for a period of 30 days and more.
- Faculty members are encouraged to do testing &consultancy services.
- One credit courses in all disciplines of Engineering and technology have been introduced in order to cater the needs of the industry.
- The curriculum and syllabi are designed by including industry experts and academic experts from reputed Institutions as Board of Studies (BoS) members.
- Continuous improvement is noted in batch size, learning methods are done by using flipped class rooms.
- KCT Learning Development Academy (KLDA) launched during 4th September 2015 is committed to provide resources and initiate activities designed to enhance an ongoing sense of scholarly community and to support the faculty of KCT in their continuing quest for excellence in research, teaching, outreach, and leadership. The larger vision of KLDA is capacity building of the faculty in the region through National and International partnerships.

  The goals of KLDA are:

  - Support a culture of excellence in teaching
  - Share best practices in pedagogy among KCT faculty
  - Respond to individual faculty needs for professional development related to teaching, learning and assessment
  - Advance innovations through the scholarly activities of teaching, learning, and assessment.
  - Facilitate interdisciplinary connections and collaborations

Various workshops organized by KLDA are detailed below:



The first workshop on "How to make lectures interesting and dynamic" was held on 14.09.2015 in the KLDA Centre. Shri. Shankar Vanavarayar, JC inaugurated the session. 14 participants were actively involved in the workshop. Prof. Bhaskar, Centre for Academic Excellence facilitated the session



The Fifth workshop of KLDA on October 3, 2015, forenoon session on "Managing Time Effectively" was well attended by 18 faculty from different departments of KCT. The session was facilitated by Mr. Vijayaraghavan, Head Finance, Sakthi Excellence Academy.



Workshop of KLDA on November 14, 2015, on "Teaching Pedagogue for Different Learning Styles" was well attended by faculty from different departments of KCT. The session was facilitated by Ms. Jeyappriadhevi, MD of Kriyative Learning solution International private limited

2.4.13 What are the teaching innovations made during the last five years? How are innovations rewarded?

The following are major innovations made in teaching during the last five years:

- ✓ One credit courses with industry based curriculum
- ✓ Group presentations / Assignments (home / group)
- ✓ Self-learning courses
- ✓ Field/Industrial visits
- ✓ In-plant training
- ✓ Industrial Internships
- ✓ Minor projects in each semester and Major Project work
- ✓ Human excellence courses as an integral part of curriculum

The following are various content delivery methods adopted:

- ✓ Open source software and tool for minor and major projects
- ✓ Lecture combined with discussions and Tutorial sessions
- ✓ Guest Lectures
- ✓ Demonstration using Models
- ✓ Group Discussion
- ✓ Survey Camp

- ✓ Organizing Workshops
- ✓ E-learning through NPTEL and MOOC courses
- ✓ Virtual classes by EDUSAT – Anna university -Satellite based education
- ✓ Case studies
- ✓ Hands-on-training on software and advanced equipment
- ✓ Technical Quiz
- ✓ Brain-Storming sessions
- ✓ Teaching aid- Audio-visual aids, Multimedia aids, Presentation slides, PowerPoint presentations

The above innovations reward the teaching-learning process in the following ways:

- Improvement in placement, success rate and knowledge up gradation.
- More number of internships and industry related projects using open source software and tool.
- Good performance in competitive examinations which leads to pursue higher studies in leading institutes and placement in government and private sector.
- The innovative methods of teaching are rewarded suitably through Performance Appraisal Development System (PADS).

2.4.14 Does the College have a mechanism to encourage

*** Mobility of faculty between Institutions for teaching?**

*** Faculty exchange programmes with national and international bodies?**

If yes, how have these schemes helped in enriching quality of the faculty?

Yes. The college encourages interaction of faculty members between Institutions.

- Faculty members are encouraged to deliver guest lectures in other Institutions and are provided with on duty.
- Faculty members are permitted to participate as resource person in International / National Conferences / Workshops / Seminars / FDP / STTP conducted by other Institutions.
- Expert members from reputed Institutions and industries are invited for delivering special lectures at KCT.
- Faculty members are encouraged to act as Doctoral Committee members for research scholars of other Institutions.

- Adjunct faculty members are appointed in few departments.
- One-credit courses have been introduced which will be handled by experts from leading industries enrich the practical knowledge.

Details of faculty exchange programmes

Details of faculty exchange programme	Faculty involved	Outcomes of the programme
Name of the Department: Automobile Engineering		
Key note address on "pedagogy" at Nehru Institute of Technology on 06/12/2014	Dr.S.John Alexis / Professor	Established a professional contact between faculty of other Institutions and industry Experts
Delivered Guest Lecture on "Recent trends in Vehicle Design" at Karpagam University on 21/08/2015	Prof. S. Sivakumar/ Assoc. Prof.	
Delivered Guest Lecture on **"**Rankine Cycle" at SNS College of Engineering, Coimbatore on 10/09/2015	Prof. S. Sivakumar/ Assoc. Prof.	
Delivered a Guest Lecture on "Recent trends in Automobile" Nehru Institute of Technology on 23/01/2015	Prof. S. Sivakumar/ Assoc. Prof.	
Delivered Guest Lecture on "Thermodynamics in Air Compressor & Refrigeration" at SNS College of Technology on 25/02/2015	Prof. S. Sivakumar/ Assoc. Prof.	
Delivered a guest lecture on " How to make yourself industry ready" at Dr. Mahalingam College of Engineering & Technology on 24/04/2015	Prof. S. Sivakumar/ Assoc. Prof.	
Name of the Department: Civil Engineering		
Supervisor for five PhD scholars, Anna University since 2009 and viva-voce awaited for one scholar	Dr.J.Premalatha Professor & HOD	Knowledge sharing
Doctoral Committee member for one PhD scholar, Anna University since 2010	Dr.J.Premalatha Professor & HOD	Knowledge sharing
Handled Advanced Structural Engineering Laboratory for ME Structural Engineering students (Full time & Part time) of Anna University Regional Centre Coimbatore	Dr.J.Premalatha Professor & HOD	Trained students on various testing techniques

(2013-14 & 2014-15)		
Supervisor for two PhD scholars, Anna University since 2010	Dr.P.Eswaramoorthy Professor	Knowledge sharing
Doctoral Committee member for five PhD scholars, Anna University since 2008	Dr.P.Eswaramoorthy Professor	Knowledge sharing
Acted as a Resource person in National level workshop on Advanced Surveying Equipments and Techniques at Karpagam College of Engineering during Aug 2015	Dr.GL.Sathyamoorthy Associate Professor	Knowledge sharing
Acted as a Keynote speaker in the National workshop conducted on "Renewable Energy Resources: Indian Scenario" by K.S.R College of Technology, Nammakal (Aug 2014)	Dr.GL.Sathyamoorthy Associate Professor	Knowledge sharing
Supervisor for two PhD scholars, Anna University since 2015 and viva-voce awaited for one scholar	Dr.K.Ramadevi Associate Professor	Guiding PhD scholars and knowledge sharing
Doctoral Committee member for five PhD scholars, Anna University since 2015	Dr.K.Ramadevi Associate Professor	Knowledge sharing
Handled Advanced Structural Engineering Laboratory for ME Structural Engineering students (Full time & Part time) of Anna University Regional Centre Coimbatore (2013-14 & 2014-15)	Dr.K.Ramadevi Associate Professor	Trained students on various testing techniques
Resource person and delivered a special lecture in the Anna University approved Faculty Development Programme On Structural Analysis II (16th to 22nd December 2015)	Dr.K.Ramadevi Associate Professor	Knowledge sharing
Resource person and delivered a special lecture in the Anna University Sponsored Faculty Development Programme On CE6402 Strength of Materials (7th to 13th December 2015)	Dr.K.Ramadevi Associate Professor	Knowledge sharing
Resource person and delivered a special lecture in the AICTE sponsored Faculty Development Programme on Technical Textiles (16th to 28th November 2015 - Two weeks)	Dr.K.Ramadevi Associate Professor	Knowledge sharing

Resource person and delivered a special lecture in the Anna University Sponsored Faculty Development Programme on "Analysis of Arches in Structural analysis - I", held at Jansons Institute of Technology, Coimbatore on 11.06.2013	Dr.K.Ramadevi Associate Professor	Knowledge sharing
Fellowship for doing academic research at IITM, Chennai through Indian National Academy of Engineering (INAE). (27th April to June 18th 2015)	Dr.N.Ramsundram Assistant Professor II	Gained knowledge and trained a student on the research topic
Name of the Department: Computer Science and Engineering		
Delivered Guest Lecture on "Association rule mining and Associative classification with research issues" at Veltech university on 12.09.2015	Mr. S.P.Siddique Ibrahim Assistant Professor I	Interaction with outside world
Delivered Guest Lecture on "Code Optimization and Code Generation" at RVS College of Engineering, Coimbatore on 05.03.2015	Dr. D. Chandrakala Professor	Interaction with outside world
Name of the Department: Electronics and Communication Engineering		
National level Seminar on Digital Signal Processing, Adithya Institute of Technology on 20.09.2014	Ms.M.Alagumeenakshi Ms.S.N.Shivappriya	Knowledge sharing
Guest Lecture on optical Communication at SNS College of Technology on 19.09.2014	Mr.S. Logeshkumar	Knowledge sharing
Guest Lecture on Routh Hurwitz criterion at SNS College of Technology on 19.09.2014	Mr.S. Logeshkumar	Knowledge sharing
Name of the Department: Electrical and Electronics Engineering		
Supervisor for 8 PhD scholars, Anna University since 2009	Dr.Rani Thottungal HoD /EEE	Gain exposure to recent technological development in field of power system and power electronics
Doctoral Committee member for 6 PhD scholars, Anna University since 2009	Dr.Rani Thottungal HoD /EEE	Interaction with other institutes and knowledge sharing
Supervisor for 12 PhD scholars, Anna University since 2011	Dr.R.Mahalakshmi Professor/EEE	Gain exposure to recent technological

		development in field of Power systems and power Electronics
Doctoral Committee member for 4 PhD scholars, Anna University since 2011	Dr.R. Mahalakshmi Professor /EEE	Interaction with other institutes and knowledge sharing
Name of the Department: Management Studies		
Supervisor for 9 PhD scholars, Anna University since 2007	Dr.V.R.Nedunchezhian Professor	5 scholars have completed Ph.D. Currently, supervising 4 scholars registered (between 2010-15).
Doctoral Committee member for 10 PhD scholars, Anna University since 2007	Dr.V.R.Nedunchezhian Professor	Currently, DC member for 4 scholars (between 2010-15)
Name of the Department: Science & Humanities		
Guest Lecture on "Interesting mathematical facts" at PSGR Krishnammal College for Women on 01.09.2015	Dr.V.R. Nedunchezhian	Course completely taught for the students of SIIMS Pollachi to take up the Anna University Examinations
Guest Lecture on "Interesting mathematical facts" at PSGR Krishnammal College for Women on 01.09.2015	Dr.A. Shantha Associate Professor (Mathematics)	Knowledge Sharing
Guest Lecture on " General Mathematics and Statistics" Sri Krishna Arts and Science College on 11.08.2015	Dr.A. Shantha Associate Professor (Mathematics)	Knowledge Sharing
Guest Lecture on "Three dimensional Analytical Geometry" at M.Kumarasamy college of Engineering on 31.11.2015	Dr. Marudhachalam Assistant Professor- III	Knowledge Sharing
Special Lecture on "In-service Programme for English teachers in the schools- Written Composition", at Hindustan college of Education on 03.09.2015	Mr. B. Arokia Lawrence Vijay Assistant Professor(SG) English	Knowledge Sharing And campus connect
Seminar on Enhancement of Communication English among	Mr. B. Arokia Lawrence Vijay	Knowledge Sharing

Students Sankara College of Science and Commerce on 09.03.2015	Assistant Professor(SG) English	
Board of Studies External Member, Sri Ramakrishna Engineering College on 20.11.2014	Dr.K. Devadoss Professor of English	Knowledge Sharing
Board of Studies External Member, Dr.Mahalingam College of Engineering and Technology on 09.04.2015	Dr.K. Devadoss Professor of English	Knowledge Sharing
External Member - Board of Studies, Nandha Engineering College on 15.04.2015	Dr.K. Devadoss Professor of English	Knowledge Sharing
Journal Editorial Member for the Journal Innovare Academic Sciences during 2014-2015	Mr.R. Mayildurai Assistant Professor Chemistry	Knowledge Sharing
Special Lecture on Environmental Science and Engineering at Nandha Engineering College on 15.04.2015	Mr.R. Mayildurai Assistant Professor Chemistry	Knowledge Sharing
Supervisor for 2 PhD scholars, Anna University since 2012	Dr.Shoba.U.S Associate Professor Chemistry	Interaction with other institutes and knowledge sharing
Supervisor for 1 PhD scholar, Anna University since 2015	Dr.K.Sampath Assistant Professor Chemistry	Interaction with other institutes and knowledge sharing
Supervisor for 2 PhD scholars, Anna University since 2014	Dr.A. Santha Associate Professor Maths	Interaction with other institutes and knowledge sharing
Doctoral Committee member for 1 PhD scholar, Karunya University since 2011	Dr.K.Devadoss Professor English	Interaction with other institutes and knowledge sharing

Details of faculty handling one credit courses

Name of the Department	Name of the visiting Professor/ Industrialist	Name of the Course
EEE	**Mr.Sivakumar &Team** GM/R&D TVS Motors,Hosur , India	Automotive Embedded System

Details of Adjunct faculty members

S.No	Programme	Faculty Name / Designation	Course Code/ Course	Percentage of Classes
1	MBA	Mr.Vijayaraghavan R Lead Trainer, Sakthi Excellence Academy	MBA 630-Merchant Banking and Financial Services	33%
		Mr. Karunanidhi LIC	MBA 632-Insurance and Risk Management	100 %
2		Mr.Austin PM CEO,Max Value Talent Central Chennai	MBA 638-Consumer Behavior	80 %
4		Mr.Raveendran Sr. General Manager – Enterprise wide solutions, Sakthi Finance Ltd.	MBA 665-Enterprise resource planning	100 %
5		Mr.P.Prabakaran Country Head – Training and Consulting, TUVRheinland India Private Limited	MBA 659-Business Process Reengineering	50%
6		Mr. G. Balasubramaniam / Company Secretary, ROOTS Multi Clean Ltd	MBA 648-Industrial Relations and Laboratoryour Welfare	25%
7		Dr.S.Narasimhan, Consultant	MBA 656-Total Quality management	100%
8		N. Padmapriya, Free lance Hindi Tutor	P15BAP110/ Elementary Hindi	100%
9		Ms.Sashirekha V, Art of Living	P15BAP112/ Yoga	100%
10		Shobana Kumar (Free lancer)	P15BAP111/ Film Appreciation	100%
11		Coimbatore Art & Theatrical Society	/P15BAP113/ Theatre	100%
12		External Faculty Ms.Jeyapriya, Managing Director, Priya Mr.Vishwanathan	P15BAP114 Business Innovation	100%

		Sahasranamam, General Manager – Coimbatore Innovation and Business Council (CIBI)		

2.5 Evaluation Process and Reforms

2.5.1 How does the College ensure that all the stakeholders are aware of the evaluation processes that are operative?

The evaluation processes that are operative are disseminated to the stakeholders in the following ways:

- Detailed information about the evaluation methods and the Examination schedule is given in the Regulations book at the time of admission in a course and also in the Academic Calendar at the beginning of a semester.
- The evaluation process is explained to the parents during regular parents meeting and to the students in Engineering Immersion Boot Camp (EIBC).
- Induction programmes are organized for all students at the beginning of second year by the respective departments in which the evaluation processes are explained.
- The Academic calendar having examination schedule for internal tests and end semester exams is prepared during the start of academic year by the office of the Controller of Examinations and intimated to the students in class committee meetings and the same is displayed in the departmental notice boards.
- The students are made aware of the evaluation processes in the class committee meetings and displaying in the notice boards.
- Regular notification regarding examination is also a feature of the teaching-learning and evaluation process of the Institution.
- The Regulations, Curricula and Syllabi are also published in the College web site http://www.kct.ac.in/.
- Course outcome evaluation process is communicated by faculty handling the courses, class advisor, ward counselors and HOD at the beginning of every semester.

2.5.2 What are the major evaluation reforms initiated by the College and to what extent have they been implemented in the College? Cite few examples which have positively impacted the evaluation management system?

The following major evaluation reforms are initiated by the College to motivate the students to take part in the industry related project works and to make the industry ready and employable.

- Fast track courses have been introduced during fifth semester for the students who are having a CGPA $\geq$ 8.5 in all semesters to complete their eighth semester courses earlier, so that the students can undergo internship or project work in industry during their eighth semester.
- Accelerated mode system is a proactive system which is introduced for the final year students ensuring majority of students to undergo internship and project works at leading industries / Institutions.
- Outcome Based Education has been adopted since 2014.
- Choice Based Credit System has been introduced in Regulation 2015.
- Credit system is introduced to all UG/PG programmes since 2012.
- Assignment / Mini projects / Group Presentations are introduced in CAM.
- To enhance the presentation skills and communication skills of the students, technical seminar is introduced.
- Minimum attendance is made as mandatory to appear for the end semester examination and it has no weight in the continuous assessment marks.
- Bloom's Taxonomy is followed for setting of the internal and end semester question papers.
- QP patterns are modified in accordance with the competitive exams like UPSC, GATE exam pattern with Part A comprises of multiple choice, multiple selection, matching type, sequential type and Assertion and Reasoning type in R2014 and R2015.
- To ensure the quality and OBE, all internal test question papers are scrutinized by the respective course coordinators. For R2014, the internal test III has been made as multiple choice online tests.
- Supplementary examination is conducted immediately after the announcement of End Semester Exam results for Regulation 2014 and 2015.

- After the publication of Eighth semester results, a supplementary exam will be offered to students who have failed in any of the theory courses in any of the semesters.
- Dummy number system has been introduced in internals tests also for regulations 2014& 2015.
- 50% of the question papers are set and valued by the External examiners.
- KCTSMARTAPPS website is created for the benefit of students to know their CAM earned in the respective courses and to make it transparent.
- The internal tests for CAM evaluation have been reduced to 2 nos. instead of 3 nos.
- Management Information System (MIS) is used to intimate the performance of the students in the internal and end semester exam to the parents through SMS.
- For few courses in Management studies, the following reforms are initiated by the Institution.
- For many of the internal components the assessments are done through learning management system Moodle, the results of which are automated and the students are aware of their results as soon as they complete the test.
- Adoption of Multiple Assessment Methods: Different assessment patterns are adopted through a variety of pedagogies so that the student has access to multiple avenues of showcasing his understanding and knowledge of the subject.
- Online Assessment for Statistics and Operations research courses: The Statistics and OR courses were assessed using Laboratory based assessment instead of a paper pencil exam. MS Excel and TORA software's were used in teaching the courses as well as for internal and final examinations.

The positive impacts of the major reforms on evaluation management system are:

- Introduction of Dummy number system for internal tests and end semester examination has improved the transparency of the evaluation system.
- The supplementary exam offered after the publication of eighth semester results facilitates the failed students to complete the programme and helps them achieve graduation within the minimum stipulated period.
- The question paper pattern for internal tests and end semester examination with Bloom's taxonomy has exposed the faculty members and students to various knowledge levels.

- OMR based evaluation for internal tests / model examinations / end semester examinations have improved accuracy and saves time.

2.5.3 What measures have been taken by the Institution for continuous evaluation of students and ensuring their progress and improved performance?

Department level:

- Monitoring performance of students in all internal tests.
- Special classes for Lateral entry students especially for the courses like Mathematics, Technical English and analytical courses.
- Special classes for slow learners
- Remedial classes are conducted by the course coordinators for failed (RA) students.
- Home Assignments are given to improve the academic performance of the students.
- Preparation of Test Performance Report for analyzing test results and immediate corrective actions (As per ISO ACD 35 format)
- Performance of students is informed to their parents and counseling for the students is done whenever necessary in the presence of parents.
- Supplementary exams are conducted to improve the CAM marks during the subsequent semester.
- Tutorial periods are conducted in order to give exercises to the students and also to closely monitor their learning ability and achievement. Courses which require more practice, includes critical thinking, Analysis and design problems.
- The complete data of individual students are maintained at department level [as per ISO format ACD 16A(01) for UG and ACD 16B(01) for PG] by the respective class advisors. The credentials like performance in examinations, awards won, participation in technical events, seminars and conferences and disciplinary issues (if any) of the individual students are recorded by the class advisor.

Institution level:

- The internal assessment marks are informed to the students through class advisor and made available in the website (www.kctsmartapps.ac.in).

- Result analysis review meetings are conducted at Institution level for every department immediately after the publication of results to assess the performance of the students and faculty members.
- Special classes for all students are conducted exclusively for Mathematics courses at Institution level.
- Supplementary exams are conducted immediately after the announcement of results for the benefit of the students.
- Summer courses are conducted for the students who are not meeting the minimum attendance criteria.

2.5.4 What percentage of marks is earmarked for continuous internal assessment? Indicate the mechanisms strategized to ensure rigour of the internal assessment process?

❖ Equal weightage (50%) is given for continuous internal assessment marks and end semester examination marks for all theory and practical courses. The detailed split up of marks for theory and practical courses are as detailed below.

Regulation 2009

I. Internal / External Assessment Parameters For Theory and Elective Courses (R2009)

S. No.	Components for CAM	Duration of the test in Hrs.	Marks (max.)
01.	Internal Test - I	2	10
02.	Internal Test - II	2	10
03.	Internal Test - III	2	10
04.	Model Exam	3	20
05.	Assignment / Seminar	-	5
06.	Attendance	-	5
Total			50

II. Internal / External Assessment Parameters For Practical Course (R2009)

Items	Marks (Maximum)
Observation	10
Record	10
Model Practical	25
Attendance	05
Total	50

III. Internal / External Assessment Parameters For Project work (R2009)

The evaluation of the project work done by the student will be carried out by a committee constituted by the Principal on the recommendation of HoD. For each programme one such review committee will be constituted. There will be 3 assessments (each for 100 mark maximum) during the semester by the review committee. The student shall make a presentation on the progress made by him / her before the committee. There will be equal weightage for all 3 assessments. The total marks obtained will be reduced for 95 and the remaining 5 marks will be given for attendance.

IV. Technical Seminar & Mini project

These courses will be evaluated internally.

Regulation 2013

I. Internal / External Assessment Parameters For Theory and Elective Courses (R2013)

Internal (50 marks)		External (50 marks)
Parameter	**Max. Marks**	End semester exam is conducted for 100 marks and converted to 50 marks
3 tests x 10 marks (Best of the two tests)	20	
Model Exam	20	
Assignments / Seminar	5	
Attendance	5	
Total	**50**	**50**
Total marks (Max)	**100**	

II. Internal/ External Assessment Parameters For Practical Course (R2013)

Items	Marks (Maximum)
Observation	10
Record	10
Model Practical	25
Attendance	05
Total	**50**

III. Internal / External Assessment Parameters For Project work (R2013)

The evaluation of the project work done by the student will be carried out by a committee constituted by the Principal on the recommendation of HoD. For each programme one such review committee will be constituted. There will be 3 assessments (each for 100 mark maximum) during the semester by the review committee. The student shall make a presentation on the progress made by him / her before the

committee. There will be equal weightage for all 3 assessments. The total marks obtained will be reduced for 95 and the remaining 5 marks will be given for attendance

IV. Technical Seminar & Mini project

These courses will be evaluated internally.

Regulation 2014

I. Internal / External Assessment Parameters For Theory and Elective Courses (R2014)

Internal (50 marks)		**External (50 marks)**
Parameter	**Max. Marks**	
3 tests x 10 marks (equal weightage for all the tests)	30	End semester exam is conducted for 100 marks and converted to 50 marks
2 group presentations x 5 marks The process for awarding marks for presentations is based on the following: 2 group presentations (the number of members in the group should match the number of theory courses in the semester)	10	
Assignments Process for awarding marks for assignments is based on **any one** of the following: • 2 Written Assignments • 1 Written Assignment + 1 Presentation • 1 Written Assignment + 2 Written Objective Tests • 1 Minor Project • 2 Presentations	10	
Total	**50**	**50**
Total marks (Max)	**100**	

II. Internal / External Assessment Parameters For Practical Course (R2014)

Internal (50 marks)		**External (50 marks)**
Parameters	**Max marks**	
Workbook	30	End semester practical exam is conducted for 100 marks and converted to 50 marks
Model exam I	10	
Model exam II	10	
Total marks	50	50
Total marks (Max)	100	

III. Internal / External Assessment Parameters For Project work (R2014)

Phase I			Phase II		
Internal (100 marks)		External	Internal (50 marks)		External (50 marks)
Parameters	Max marks	Max marks	Parameters	Max marks	Max marks
Review I	100	Nil	Review I	100	Evaluation is based on Project report and Viva-voce examination conducted for 50 marks each and converted to 50 marks
Review II	100		Review II	100	
			Review III	100	
Total marks	100	Nil		50	50
Total marks (Max)	100			100	

The mechanisms strategized to ensure rigour of the internal assessment process are:

- Review of result analysis in the class committee, department meetings and HOD's meetings.
- Feedback / Suggestions from students regarding exam procedures, QP patterns etc.
- All the internal test question papers are scrutinized at department level to ensure the quality of the question papers.
- Any deviation in the evaluation of answer scripts in the internal test is immediately solved as per procedure given by the COE and the updated marks of the students are entered in MIS software.
- The performance of the students in the internal exams is intimated to the parents immediately after the evaluation.

2.5.5 Does the College adhere to the declared examination schedules? If not, what measures have been taken to address the delay?

Yes, the college adheres to the declared examination schedule. Academic calendar is prepared by the office of the Controller of Examinations and issued to all the students and faculty members at the beginning of the every academic year indicating the schedule of the examinations. The schedules are strictly followed as per the academic calendar.

2.5.6 What is the average time taken by the College for declaration of examination results? Indicate the mode / media adopted by the College for the publication of examination results e.g., website, SMS, email, etc.

- Examination results will be declared within 30 days.
- The mode / media adopted by the College for the publication of examination results are as follows:-
  - KCT website (www.kct.ac.in)
  - SMS
  - Intranet (kctsmartapps)
  - Hard copy in the Notice Board
  - Complete Academic Review for Enhancement - CARE 360^0 (Students Performance Report)

2.5.7 Does the college have an integrated examination platform for the following processes?

*** Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.**

*** Examination process – Examination material management, logistics.**

*** Post examination process – attendance capture, OMR based exam result, auto processing, generic result processing and certification.**

Yes. The office of the COE has integrated software for the above said procedures except online payment gateway.

I. Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.

Time Table Preparation & Issue of Hall Tickets

- A circular is sent to all the departments calling the students to apply for examinations. This notification is issued at least fifteen days prior to the last working day in each semester.
- Based on the nominal roll, student-wise examination application forms are generated and are sent to the departments for distribution to the individual students.

- The students pay the examination fees and send the duly filled-in applications to the Controller's Office through the respective class advisors along with a copy of the receipt of the amount paid by the student.
- The list of students with shortage of attendance is obtained from Academic Section.
- The hall tickets are distributed to the individual eligible students.
- To prevent impersonation, the hall ticket is printed with the photograph of the student.
- A tentative time table is prepared and sent to all departments for verification and clash of dates.
- Based on the inputs from the departments, a final time table is prepared and displayed in all the Notice Boards of the college.
- For regular students, the examinations are conducted on alternate days. In the scheduling of examinations, it is ensured that no student writes two examinations in a single day.

Question Paper Setting

- The examination process starts with the preparation of a Nominal Roll for each semester.
- The Nominal Roll contains the names of all the eligible candidates along with the course titles for the given semester.
- After two to three weeks from the date of commencement of the semester, each department is requested to send the following:
    - ✓ Attested copy of curriculum
    - ✓ Attested syllabi of each of the courses of the semester including the electives
    - ✓ model question paper in the format provided
    - ✓ a panel of question paper setters (external members)
- From the panel of question paper setters, the Controller chooses the external examiner, contacts the examiner, gets his/her consent and then a formal appointment letter is sent.
- The experience criterion for setting question papers for semester examinations is 5+ years of experience in engineering education of the given stream; senior industry personnel are also eligible for setting question papers.
- After the receipt of question papers, all the question papers are subjected to a scrutiny by a maximum of two or three senior faculty members of the department. The corrections and changes in the question papers are carried out and are advised to keep them strictly confidential.

- Controller Office Staff under the guidance and supervision of the Controller make final corrections (spelling errors, standardizing the format etc). The question papers are printed previous day of the examination and kept in sealed covers under lock and key.

Practical Examinations

- Practical examinations are conducted prior to the commencement of theory examinations.
- A circular is sent to all departments informing the period of practical examinations and calling for a panel of external and internal examiners.
- From the panel, the Controller chooses the external examiner for each of the practical examinations, contacts the examiner, gets his/her consent to act as external examiner; a formal appointment letter is sent to the external examiner. A copy of the appointment letter is also sent to the department for making the necessary arrangements for the smooth conduct of the practical examination.
- The external examiners are selected from reputed Institutions with a minimum experience of more than 5 years.

Theory Examinations

- The odd semester examinations are conducted in Nov/Dec and the consecutive supplementary examinations are conducted in the month of February.
- The even semester examinations are conducted in Apr/May and the consecutive supplementary examinations are conducted in the month of July.
- The final time table (as outline above) is published in intranet and internet for the wider dissemination amongst the student community including the arrear candidates (some of who may not be studying currently in the college).

1. Anna University Web Portal Data Updation

- Data required by Anna University for the final year students of UG & PG programmes are updated in the Anna University Web Portal usually in the month of March/April for getting provisional and degree certificates.

II. Examination process – Examination material management, logistics.

- All the theory examinations are monitored by Anna University Representative (appointed by Anna University); Chief Superintendent (any one of the Heads of the Departments or

senior professors of KCT appointed by Principal/COE); Squad members (two senior professors per session appointed by the Principal/COE).

- One examination hall invigilator is appointed for every 25- 30 students.
- The question papers, Attendance sheets and covers are issued to the University Representative and Chief Superintendent on the day of the examination.
- A Malpractice Committee constituted by the Principal awards punishment and issues memorandum. The punishments for malpractices are as per Anna University norms.
- The faculty members handling the courses are permitted to go through the question paper after the elapse of at least 30 minutes from the commencement of the examination. Small mistakes like data missing in the question papers are corrected immediately with the consent of the Anna University Representative and the corrections are announced in the examination halls.
- Comments from the faculty members (e.g. out-of-syllabus questions, wrong choices in the multiple-choice questions, vague and ambiguous questions etc) are collected by the Controller. These are presented to the Chairman of the concerned Board during the Central Valuation for necessary action.
- The answer paper covers and attendance sheets are handed over to the Controller of Examinations after the completion of the exam.

III. Post examination process – attendance capture, OMR based exam result, auto processing, generic result processing and certification.

Central Valuation

- Dummy numbering system has been introduced to improve impartiality of the valuation process.
- A panel of examiners for valuation (both internal and external) is obtained from the department.
- From the panel of external examiners for central valuation, the Controller chooses the external examiner, contacts the examiner, gets his/her consent and then a formal appointment letter is sent. Appointment letters to the internal examiners are also sent.
- For each department, a Central Valuation Board is constituted with a Chairman. The Chairman is usually the Head/Director of the Department. For every 10 examiners, one Chief Examiner may be appointed by the Chairman.

- Tabulators are appointed to check the correctness of the total marks and also to check whether any question has not been valued. The tabulators are appointed at the level of Laboratory Assistant.
- For a fair evaluation, necessary instructions are issued through the Board Chairman / Chief Examiners.

Result Processing

- The internal marks submitted by the MIS are entered to add with external marks later.
- The external marks scored by the students are entered by two data entry operators independently. They are counterchecked by software for the correctness of the marks entered.
- The internal and external marks are processed by software to obtain the final results of individual students. Statistics before and after moderation are generated by the software.
- The Result Passing Board is constituted by the KCT Chairman with the Principal as Board Chairman. The other members are from Anna University, other Educational Institution and Industry. All the Head/Directors of the Departments are also the members of the Result Passing Board.
- The Result Statistics and Analysis is presented in the Result Passing Board by the Controller.
- After the deliberations, the results are passed with or without modifications as recommended by the Board. Deliberations of the meeting are recorded as minutes for future implementation.
- The students can apply for revaluation. A subject expert (other than the faculty who valued the paper first) revalues the paper and the results declared. The procedure followed is as per Anna University norms.
- Arrear / Supplementary Examinations
- The failed students are given an opportunity to write arrear / supplementary examination within a period of one month instead of waiting for a full semester. The examination process is same as adopted for regular examinations (Time Table; Conduct of examinations; Central valuation; Result Processing & Publication; Revaluation etc).

Post-Audit of Examination Process

- To improve the examination process particularly with regard to quality of question papers and the standard of valuation, a post-audit of the examination process is conducted.
- Senior professors from reputed Institutions are appointed to conduct the post-audit with a set of queries on the quality of question papers, the standard of valuation of answer scripts and the quality of answer keys prepared for evaluation.

Distribution of Grade Sheets

- The grade sheets for each of the students is printed every semester and sent to the concerned departments for distribution.
- For final year students (after the completion of all the semesters), a consolidated mark sheet is also given.

Provisional and Degree Certificates

- Details of all the eligible candidates with Classification and CGPA are prepared and sent to Anna University for getting the degree certificates.

2.5.8 Has the College introduced any reforms in its Ph.D. evaluation process?

- ❖ The Institution is an approved research centre for pursuing Ph.D studies under the affiliation of Anna University, Chennai.
- ❖ The entire evaluation process is governed by Anna University, Chennai and hence no reforms in the Ph.D evaluation process can be introduced by the college.

2.5.9 What efforts are made by the College to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved process and functioning of the examination division/section?

The controller of examinations is responsible for conduct of all Autonomous examinations, and it is his duty to arrange for preparation, scheduling, conducing of Semester examinations and all other incidental matters connected with examinations. The controller of examinations in the execution of his office reports to the Principal periodically in the performance of his/her duties.

Suggestions for improvement in the processes are gathered from the faculty as well as student representatives (during class committee meetings), and these are discussed for any improvements/reforms.

A separate examinations office is allotted with adequate number of supporting staff and faculty members to monitor the distribution and collection of answer booklets.

- Dummy numbered and OMR based evaluation is followed.
- Post audit and QP review of internal test & end semester examinations is conducted periodically.
- Centralized examination system is followed for internal test and end semester examinations.

2.5.10 What is the mechanism for redressal of grievances with reference to evaluation?

Students who are not satisfied with the grades awarded can seek redressal by the methods given in the following table:

Sl.No	Redressal Sought	Methodology	
		Regular exam	**Arrear exam**
1.	Re totaling	Apply for photo copy of answer book / Then apply for re totaling	Apply for photocopy of answer book / Then apply for re totaling
		(within 5 days of declaration of result)	
2.	Revaluation	Apply for photo copy of answer book / Then apply for revaluation after course expert's recommendation	Not permitted
		(within 5 days of declaration of result)	
3.	Challenge of evaluation	Apply for photo copy of answer book / Then apply for revaluation after course expert's recommendation / Next apply for challenge of evaluation	Apply for photocopy of answer book / Then apply for challenge of evaluation after course expert's recommendation
		(within 3 days of publication of revaluation results)	

Challenge of Evaluation

a) A student can make an appeal to the CoE for the review of answer scripts after paying the prescribed fee.

b) CoE will issue the photo copy of answer script to the student.

c) The faculty who had handled the subject will evaluate the script and HoD will recommend.

d) A Committee consisting of 2 experts appointed by CoE will review and declare the result.

f) If the result is in favour of the student, the fee collected will be refunded to the student.

h) The final mark will be announced by CoE.

These are applicable only for theory courses in regular and arrear end semester examinations.

2.6. Student Performance and Learning Outcomes

2.6.1 Does the College have clearly stated learning outcomes for its programmes? for staff are made aware of these?

Yes. Since the Institution is adopting the Outcome Based Accreditation system, the learning outcomes are clearly defined for all programmes.

- Programme Educational Objectives (PEOs) and Programme Outcomes (POs) are prepared for every programme and displayed at various places (classrooms, Laboratorys, walls, Department libraries) in every department.
- The Course Outcomes (COs) of all the courses of the respective programmes clearly stated in the regulation book and in question papers.

Students and faculty members are made aware on the learning outcomes as given below.

- The learning outcomes are disseminated to the students through Engineering Immersion Boot Camp (EIBC) and through college web site (www.kct.ac.in.)
- The faculty members are made aware of learning objectives through display boards, Faculty meetings, Training programmes, College website, Department Advisory Board meetings, and Industry Interaction meetings.
- The faculty members are provided training on outcome based education and students are made aware of the learning outcomes during the beginning of every course through the respective course coordinators.

2.6.2 How does the Institution monitor and ensure the achievement of learning outcomes?

All the departments conduct the module coordinators meet, Programme Assessment Committee meet and Programme Advisory Board meet periodically to ensure the

achievement of learning outcomes. The Institution monitors and ensures achievement of learning outcomes through various direct and indirect tools.

A. Direct Assessment Tools:

Assessment for Theory Courses: Students are examined and monitored continuously for each course of study in the program. The performances of the students in each course are assessed regularly based on assignments, three internal tests and one model examination. The internal test is conducted during the dates specified in the college calendar. Model examination is conducted after completion of the course syllabus. The details of marks scored by the students in the internal test, assignments, model examination are entered in the personal logbook of individual faculty members as well-as in the MIS software in order to update student's record in Controller of Examination (CoE) office and to share the information to parents as well. For the final semester exam results, 50 percent weightage is given for Continuous Assessment Marks (CAM) which includes all internal tests and assignments and 50 percent weightage is given for the end semester examinations.

End Semester Examination for Theory Courses: The end semester examination for theory courses is conducted with the same pattern of question papers and duration as that of the model theory examination. The evaluation is for 100 marks. However, the question paper pattern for courses in engineering graphics and drawing, etc. is designed differently to suit the specific need of the courses.

Assessment for Practical Courses: Students are examined for all practical courses based on the observation, record and performance in the model exam. The end semester examination for practical course is conducted by an internal and an external examiner appointed by the Controller of Examination with the prior approval of the Principal.

Assessment of Project Work

The evaluation of the project works done by the students are carried out by a committee constituted by the Principal on the recommendation of HOD. For each programme one such review committee is constituted. There are 3 assessments (each 100 mark maximum) done by the review committee during the semester. The students are expected to make a presentation in front of the committee on the progress made by him/her. There is an equal weightage for all 3 assessments.

B. Indirect Assessment Tools:

Programme Exit Survey: At the end of the programme, the program exit survey is conducted in the form of questionnaires and feedback and is received for the modification of course content, COs and POs.

Alumni Survey: Graduates' feedback after one to two year of graduation is received in the form of questionnaires (questions framed indirectly in such a manner covering the Programme Outcomes (POs) and PEOS) and suitable corrective actions are initiated to modify the courses and course outcomes as per the expectations of stake holders for the benefit of current students.

Employer Survey: Being one of the essential tools for the induction of new courses, modifications of the existing courses, its outcomes and to bridge the gap between the industry and curriculum, after two to three years of graduation of the students, the employer survey is done from the employers where the students of our Institution are excelling at their work and doing positive contributions to the society.

Apart from the above mentioned indirect tools, the Extra and Co-Curricular activities by the students, the number of students passed in the competitive exams like UPSC, TNPSC, GATE, and TANCET are also included to support the assessment of program outcomes, if necessary.

2.6.3 How does the Institution collect and analyse data on student learning outcomes and use it for overcoming barriers of learning?

- Feedback from students regarding course outcomes are collected at the end of every semester for all courses, reviewed and counseled by HOD.
- Based on the feedback obtained from the stake holders like Parents, Alumni, industry experts and Board of studies experts, the curriculum and syllabi is modified to meet the industrial requirements.
- Those suggestions which could not be included in the curriculum are given in the form of student enrichment programmes like trainings/workshops/guest lectures etc.
- Based on the current trend one credit industry oriented courses have been introduced in the 2013, 2014 and 2015 curriculum.
- Result analysis report as per ISO format [ACD 35(02)] is prepared by all departments in each semester and the performance of the students in ESE is reviewed to assess the student learning outcomes.

- The deficiencies in attainment of course outcomes are analyzed by the course coordinator and the necessary corrective measures are adopted.
- Remedial classes are arranged for slow learners and failed students.
- The performance of students in internal tests and project works are evaluated by the department and discussed in class committee meetings. Based on the feedback from the students, necessary steps like extra classes, solving more problems etc. are taken to improve the learning outcomes.

The above data collected on student learning outcomes through various tools are used for overcoming barriers of learning.

- The changes in the curriculum and teaching-learning process are made.
- The level of attainment of outcomes helps the faculty members to reiterate / innovate various delivery methods for better understanding.

2.6.4 Give Programme-wise details of the pass percentage and completion rate of students.

S.No	Academic year	No. of students appeared	No. of students successfully completed the programme	Pass %
B.E. Aeronautical Engineering				
1	2014-2015	74	57	77.03
	2013-2014	55	55	100
	2012-2013	61	61	100
	2011-2012	67	64	95.52
B.E.Automobile Engineering				
2	2014-2015	71	64	90.14
B.Tech. Bio Technology				
3	2014-2015	55	54	98.18
	2013-2014	55	55	100
	2012-2013	54	53	98.15
	2011-2012	53	51	96.23
B.E. Civil Engineering				
4	2014-2015	71	64	90.14
	2013-2014	65	65	100
	2012-2013	65	63	96.92
	2011-2012	62	61	98.39
B.E. Computer Science and Engineering				
5	2014-2015	140	123	87.86
	2013-2014	65	65	100
	2012-2013	66	63	95.45
	2011-2012	65	62	95.38

B.E. Electronics and Communication Engineering				
6	2014-2015	139	130	93.53
	2013-2014	126	126	100
	2012-2013	128	126	98.44
	2011-2012	132	130	98.48
B.E. Electrical and Electronics Engineering				
7	2014-2015	70	70	100
	2013-2014	68	68	100
	2012-2013	65	65	100
	2011-2012	65	65	100
B.E. Electronics and Instrumentation Engineering				
8	2014-2015	73	69	94.52
	2013-2014	57	57	100
	2012-2013	64	61	95.31
	2011-2012	65	64	98.46
B.Tech. Fashion Technology				
9	2014-2015	71	66	92.96
	2013-2014	59	59	100
	2012-2013	64	64	100
	2011-2012	68	68	100
B.Tech. Information Technology				
10	2014-2015	68	58	85.29
	2013-2014	59	59	100
	2012-2013	66	66	100
	2011-2012	63	61	96.83
B.E. Mechanical Engineering				
11	2014-2015	142	132	92.96
	2013-2014	134	134	100
	2012-2013	133	124	93.23
	2011-2012	61	61	100
B.E. Mechatronics Engineering				
12	2014-2015	70	69	98.57
	2013-2014	71	71	100
	2012-2013	65	61	93.85
	2011-2012	63	61	96.83
B.Tech. Textile Technology				
13	2014-2015	69	68	98.55
	2013-2014	63	63	100
	2012-2013	65	65	100
	2011-2012	64	59	92.19

M.E. Structural Engineering				
14	2014-2015	17	17	100
	2013-2014	17	17	100
	2012-2013	18	18	100
	2011-2012	18	18	100
M.E CAD CAM				
15	2014-2015	18	18	100
	2013-2014	18	18	100
	2012-2013	18	18	100
	2011-2012	16	16	100
M.E. Energy Engineering				
16	2014-2015	18	18	100
	2013-2014	15	15	100
	2012-2013	17	17	100
	2011-2012	16	16	100
M.E. Industrial Engineering				
17	2014-2015	25	25	100
	2013-2014	25	25	100
	2012-2013	24	24	100
	2011-2012	24	24	100
M.E. Power Electronics and Drives				
18	2014-2015	17	17	100
	2013-2014	17	17	100
	2012-2013	18	18	100
	2011-2012	17	17	100
M.E. Embedded Systems				
19	2014-2015	17	17	100
	2013-2014	18	18	100
	2012-2013	18	18	100
	2011-2012			
M.E. Applied Elecrtonics				
20	2014-2015	17	17	100
	2013-2014	18	18	100
	2012-2013	18	18	100
	2011-2012	17	17	100
M.E. Communication Systems				
21	2014-2015	22	22	100
	2013-2014	24	24	100
	2012-2013	24	24	100
	2011-2012	24	24	100

M.E. Computer Science and Engineering				
22	2014-2015	22	22	100
	2013-2014	25	25	100
	2012-2013	25	25	100
	2011-2012	23	23	100
M.Tech. Apparel Technology				
23	2014-2015	7	7	100
	2013-2014	12	12	100
	2012-2013	12	12	100
	2011-2012	16	16	100
M.Tech. Textile Technology				
	2013-2014	13	13	100
	2012-2013	10	10	100
	2011-2012	15	15	100
M.Tech. Bio Technology				
25	2014-2015	17	17	100
	2013-2014	18	18	100
	2012-2013	16	16	100
	2011-2012	17	17	100
Master of Computer Applications				
26	2014-2015	130	122	93.85
	2013-2014	57	57	100
	2012-2013	54	54	100
	2011-2012	55	55	100
Master of Business Administration				
27	2014-2015	180	153	85
	2013-2014	168	159	94.64
	2012-2013	108	107	99.07
	2011-2012	60	54	90

Any additional information regarding Teaching, Learning and Evaluation, which the Institution would like to include.

In order to enhance teaching-learning and to bring practical flair, the facilities such as iCUBE (a Technology Incubation Centre at KCT) and CEAD (Centre of Excellence in Advanced Design) have been created which enable students to innovative and creative ideas leading towards better learning.

CRITERION III:

RESEARCH CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Does the College have a research committee to monitor and address the issues of research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

Yes.

- The Institution has a core Research Review Committee (RRC) to monitor the progress of the research activities.
- The RRC consists of Dean (Research and Development), and a team of members at the Professor level one each from Mechanical Engineering, Biotechnology and Mechatronics Engineering as members.

Composition of Research Review Committee:

Sl.No	Name of the Committee member	Designation	Position
1.	Dr. S. Thangasamy 	Dean (R and D) thangasamy.s.cse@kct.ac.in deanrnd@kct.ac.in	Chairman
2.	Dr. R. Manivel 	Professor, Mechanical Engineering manivel.r.mec@kct.ac.in	Convener
3.	Dr. S. A. Pasupathy 	Sr.Assoc.Professor &Head (i/c), Mechatronics hod.mce@kct.ac.in	Member
4.	Dr. N. Saraswathy 	Professor and Head (i/c), Biotechnology hod.bt@kct.ac.in	Member

The role of the committee is to monitor the progress of the externally funded projects that have been sanctioned by various government funding agencies such as DBT, DST, AICTE, RuTAG, ISRO and DRDO by providing valuable technical recommendations/ suggestions/ inputs to the investigators, and also to create an ease research ambience for the smooth completion of the projects. The RRC reviews the following issues and forwards the recommendations listed below to the Head of the Institution on regular basis.

Recommendations made by RRC

- Encouraging the faculty members and students to publish research papers in peer reviewed National and International journals.
- Recommending the sponsorship requests from the faculty members and students for attending conferences abroad.
- Requesting financial support on, Patent proposals submitted by the faculty and students, and filing patents.
- Guiding and helping the faculty members to apply for the external funded research projects.
- Motivating submission of projects to funding agencies such as TNSCST, IEEE, etc. by students.
- Encouraging faculty members to take up industry link projects.
- Motivating the faculty members to explore research leading to Doctoral degree.
- Encouraging the faculty members to publish research papers in peer reviewed National and International journals.

Minutes of the meeting - RRC-sample

Annexure I:

KUMARAGURU COLLEGE OF TECHNOLOGY

MINUTES OF MEETING

Committee name: R and D Committee	***Meeting no*: 4of 2015-2016**
***Subject*:** Review of UGC Proposals submitted by faculty members and release of assessment certificates	
***Meeting Date:* 11.07.2015**	***Meeting Place*: Dean (R & D) Room, B Block**

Participants of the meeting:

Name	*Designation*	Orgn	Signature
Dr.S.Thangasamy	Dean (R &D)	KCT	
Dr.R.Manivel	Professor	Mechanical Engg.	
DR.S.A.Pasupathy	Sr.Assoc.Professor	Mechatrocnics Engg.	
Dr.N.Saraswathy	Professor and Head (i/c)	Biotechnology	

Committee Members who did not attend: **NIL**

Name	*Designation*	Orgn	Signature
NIL			

Highlights of the meeting*:*

List of UGC minor proposals reviewed are enclosed**Action Items:**

Codes: A: *Action* **C**: *Comment* **D**: *Decision* **R**: *Recommendation*

Item	Code	Description	Responsibility	Due Date
1.	R	assessment certificates for the two UGC proposals were issued	RRC	10.04.2015

Date: 13.4.2015 **PRINCIPAL**

To

Chair, *R and D Committee*

Co-Chair, *R and D Committee*

Members, *R and D Committee*

Copy to: Joint Correspondent for kind information

Impacts made in Research and Development:

- Attraction of financial grants from the external funding agencies to the tune of two Crores since 2009.
- Enhancement of infrastructure through AICTE-MODROBS scheme (Rupees Thirty three lakhs).
- Significant increase in the publication of research papers in peer reviewed National and International journals which are indexed in Scopus database.
- Sizeable number of seminars, conferences, symposia etc. has been conducted across various departments on the contemporary issues/ themes in various domains.
- Patents are filed by students and faculty members.
- Faculty members and students attended conferences in India and abroad.
- Monetary incentives are given to the faculty members having Ph.D. degree (to the tune of Rs. 6.8 lakhs per month, i.e., Rs. 81.6 lakhs/ year) encouraging the faculty members to do research.
- About ten departments (Biotechnology, Chemistry, Civil Engineering, Computer Science and Engineering, Business Administration, Mechatronics Engineering, Mechanical Engineering, Textile Technology, Electronics and Communication

Engineering, and Fashion Technology) have been recognized as research centres by Anna University, Chennai.

- Currently 157 faculty members and scholars are pursuing Ph.D. in various domains.

3.1.2 What is the policy of the College to promote research culture in the College?

The following are the steps adopted by the Institution to promote the research culture:

- Every year a significant amount is allocated in the department budget for the research activities.
- Additional equipments needed for the research work is purchased through the department budget.
- Sponsoring faculty members attending conferences in India and abroad (Travel support and registration fees)
- Recognition for research paper publications in high impact factor journals.
- Every year Performance Appraisal and Development System (PADS) is adopted to recognise the contribution of the faculty members in research.
- Fetching external fund for conducting research projects, FDP/seminar/workshop is given due weightage in the faculty appraisal.
- Every year during Teachers' Day, outstanding researcher award is given to the faculty who received maximum external fund for research and related activities.

3.1.3 List details of prioritized research areas and the areas of expertise available with the College

- Many research centres/advanced laboratorys are created within the campus to carryout research activities.
- Training the students in the potential research areas help to solve the societal problems, various departments in the college are working on prioritized thrust areas.

The list of domain/ research areas and the faculty expertise are furnished below

Sl. No.	Departments	Prioritized research area	Expertise available
1.	Automobile Engineering , ECE, Mechatronics Engineering, Mechanical Engineering	Automotive Design, Automotive Electronics & Systems, Vehicle Retailing	Prof.C.Vasantharaj, Dr.A.Vasuki Dr.S.A.Pasupathy Dr.V.Muthukumaran
2.	Aeronautical	Composite Material, CFD,	Dr.V.Muthukumaran

	Engineering Mechanical, Auto, and ECE	UAV	Prof.C.Vasantharaj, Dr.A.Vasuki
3.	Biotechnology	Food Biotechnology, Biomaterials and Environmental Biotechnology	Dr.N.Saraswathy Dr.R.Baskar Dr.T.Sathishkumar Dr.P.Ramalingam Dr.M.Shanmugaprakash
4.	Civil Engineering	Urban Infrastructure Planning, GIS Applications For Civil Infrastructure, Natural Resources Mapping using GIS	Dr.J.Premalatha Dr.P.Eswaramoorthi Dr.GL.Sathyamoorthy
5.	Computer Science and Engineering, Information Technology and MCA	Networks, Data Analytics, Digital Security	Dr.P.Devaki, Dr.Ramalatha Marimuthu, Dr.V.Geetha
6.	Electronics and Communication Engineering, Electronics and Instrumentation Engineering and Mechatronics Engineering	Process Automation & Instrumentation, Biomedical Instrumentation	Dr.A.Vasuki, Dr.V.Muthukumaran, Dr.M.Ezhilarasi
7.	Electrical and Electronics Engineering, Electronics and Communication Engineering and S & H	Signal Processing & Embedded Systems, Communication And VLSI	Dr.Rani Thottungal, Dr.A.Vasuki
8.	Textile Technology and Fashion Technology	Smart Functional Clothing, Technical, Medical Textiles, Apparel Machinery & System Engineering.	Dr.Bhaarathi Dhurai, Dr.J.Srinivasan
9.	Mechanical Engineering and Mechatronics Engineering	Materials, Energy, Advanced Manufacturing Technology	Dr.S.A.Pasupathy Dr.V.Muthukumaran
10.	Mechatronics	Robotics & Automation,	Dr.S.A.Pasupathy

	Engineering, Electronics and Communication Engineering and Mechanical	Building Automation, Applied Fluid Power	Dr.V.Muthukumaran, Dr.A.Vasuki

3.1.4. What are the proactive mechanisms adopted by the College to facilitate smooth implementation of research schemes/ projects?

➢ **Advancing funds for sanctioned projects**

- ❖ The funds received from the external funding agencies are deposited in the bank account and the transactions are properly maintained by the finance and accounts department.
- ❖ The amount required by the Principal Investigator (PI) for executing the project is released immediately in concurrence with the Head of the Department (HoD), Dean (R & D) and Principal.
- ❖ The purchase department of the Institution takes care of the recurring and non-recurring items needed for the project for which specifications are given by the PI as required.
- ❖ For each research project, a separate ledger is maintained in the finance and accounts department to keep track of the expenditure.
- ❖ The recruitment and payment of salary for the technical support staff sanctioned for research project (Research Assistant (RA), JRF, and SRF) is assisted by the HR department of the Institution. Thereby smooth running of research project by the respective PI is ensured.

➢ **Providing seed money**

- ❖ From time to time through Dean (R and D) cell, an open call for research proposals to be supported by the management is made. From each department potential research projects are forwarded by the concerned HoD to the Dean (R and D) cell.
- ❖ The RRC in consultation with experts from the various fields recommends the proposal for Institution financial support.
- ❖ This helps the potential researchers to carry out ground work and validate their idea subsequently to generate preliminary research data to support research proposals to funding agencies like DST, DBT, AICTE, BRNS, DRDO, ISRO, etc.

- **Autonomy to the principal investigator/coordinator for utilizing overhead charges**
  - ❖ The PI of the sponsored project is facilitated with the provision of laboratory facilities, literature resources, electricity, water and other relevant basic amenities for the smooth progression of the project.
  - ❖ The purchase office aids the PI in the procurement of the consumables, equipments and other related items as per the guidelines given by the respective funding agency and norms of the Institution.
  - ❖ In addition to the above, the overhead charges also utilized for purchasing minor equipments needed for the project on recommendation of the PI.

- **Timely release of grants**
  - ❖ As soon as the grant is received from the funding agency, the fund is made available for the Principal investigator (PI) to carry out the project.
  - ❖ When the PI submits a request for purchase of equipments, chemicals to purchase department, it will invite the quotations from potential suppliers and negotiate with supplier along with PI and purchase order will be issued to the supplier.
  - ❖ The HR department takes care of the monthly release of the salary to the savings bank account of JRF and technical staff.
  - ❖ An advance amount under the contingency head is released to the PI when the request is placed.
  - ❖ An advance amount for travel is released to the PI to present project progress to the expert committee, attending conferences, presenting papers as and when PI submits request.

- **Timely auditing**

  The work progress of the sanctioned funded project is monitored and finally a report of the project is submitted to the R & D cell periodically.

- **Submission of utilization certificate to the funding authorities**
  - ❖ The PI prepares the utilization certificate (UC) and statement of expenditure (SE).
  - ❖ UC/SE as per the format given by the funding agency and submits to the Finance and Account department of the Institution.

- After the completion of the sponsored projects, the necessary documents are submitted to the Finance and Account department for the verification and approval of UC and SE.
- The office checks the audited statements submitted by the PI. The verified UC/SE is counter signed by the finance officer/charted accountant and is submitted on time to the respective funding agency by the PI.

3.1.5 How is interdisciplinary research promoted?

- The importance of interdisciplinary research is inculcated to the students at undergraduate and post-graduate level and students are encouraged to conceive ideas of interdisciplinary nature for the final year project work..
- This fosters team-spirit and helps students to have an experience of working across departments and domains.
- Initiatives have been taken for the execution of interdisciplinary project work at UG and PG level from 2015-16 academic year.
- Faculty members are encouraged to attend training programme in advanced research laboratorys at national level and collaborate with other Institutions for further research.
- Process for Interdisciplinary projects is evolved to promote interdisciplinary research.
- Research clusters are formed combining various departments to carry out interdisciplinary research

Research Cluster

Sl.No	Interdisciplinary Research Area	Departments Involved
1	Automotive electronics and systems	Automobile Engineering, ECE, Mechanical Engineering, Mechatronics Engineering
2	Composite materials	Mechanical Engineering, Textile Technology
3	Biomaterials	Textile Technology, Biotechnology, Fashion Technology
4	Digital Security and Data analysis	IT, CSE and MCA

5	Signal processing and Embedded systems	ECE, EIE and EEE
6	Process instrumentation and automation	EIE, ECE and Mechanical Engineering

3.1.6 Enumerate the efforts of the College in attracting researchers of eminence to visit the campus and interact with teachers and students?

The Institution has provided a platform for the academic departments to interact/ discuss with the eminent researchers and discuss the contemporary issues related to the programme through the conduct of guest lectures, industrial visits, seminars, conferences and FDPs.

- International conferences are conducted in various current topics by the departments and eminent scientists/academicians are invited to chair various sessions.
- Scientists from various National level Institutions are invited to give keynote addresses in various national seminar/conferences.
- Industry experts are included in the various FDP/ Workshops conducted by the departments which enables the faculty members and students to get the updated knowledge on the industry requirements.
- Industry-Institute linkages are promoted to enhance skill transfer through MoUs.
- Senior academician and researchers from reputed organization are invited as experts for Board of Studies (BoS) in various departments.

The eminent researchers are invited from premier organizations such as:

- Anna University, Chennai
- Indian Institute of Technology (IIT), Madras
- Indian Institute of Technology (IIT), Delhi
- National Institute of Technology (NIT), Trichy
- Indian Institute of Science (IISc), Bangalore
- Indira Gandhi Centre for Atomic Research, Kalpakkam, Chennai
- National Remote Sensing Centre (NRSC), ISRO, Hyderabad
- Government College of Technology (GCT), Coimbatore
- Texas Tech University, Lubbock, USA
- Technical University of Liberec, Czech Republic
- National Research Centre, Textile Research Division, Egypt

- Polytechnic University, Hong Kong
- National University of Singapore (NUS), Singapore
- Swinburne University of Technology, Australia
- University of Florida, Orlando, USA
- Yokogawa Ltd,
- Titan Industries, Bangalore
- Robert Bosch Engineering and Business solutions Ltd, Coimbatore
- IBM India Research Laboratory, New Delhi
- L&T construction, Chennai
- Chettinad Cement, Chennai
- Centre for Disaster and Management, Chennai
- Karnataka State Pollution Control Board, Bangalore

List of eminent scientists, academicians and industry persons is list in 3.1 Annexure I

3.1.7 What percentage of faculty has utilized sabbatical leave for research activities? How has the provision contributed to the research quality and culture of the College?

- The Institution has provided a significant platform to the faculty members for the up-gradation of domain knowledge through the provision of On-duty and special leave.

The list of faculty members who have availed the On- duty has been furnished below:

Sl.NO	Name of the Staff	Department	Type of the sabbatical leave	Year
1.	Dr.R.Baskar/BT	Biotechnology	INSA@ Hyderabad Central University	2012-2013
2.	Dr.S.Sivamani/BT		INSA@CLRI, Chennai	2012-2013
3.	Mr.Kumaresan	Electronics and Communication Engineering	Summer Research Internship@ IIT Delhi	2015
4.	Dr.Raghav Menon		Post- Doctoral Fellowship	2016

3.1.8 Provide details of national and international conferences organized by the College highlighting the names of eminent scientists/scholars who participated in these events

- Each academic year various departments in the college organize National and International conferences regularly on emerging areas and the details of the conferences conducted is listed below.

S.No.	Year	Name of the eminent person	Name of the event
1	2015-2016	Dr.S.R.Devadasan,D.Sc, Professor of Production Engineering, PSG College of Technology, Coimbatore	National conference on "Recent trends in Automotive design, manufacturing and integration/Automobile Engineering
2		Mr.RutujKarandikar Head Manager, India	National Workshop on India's Biggest Civil Championship in association with ARK Techno solution with IIT Madras & ACES /Civil Engineering
3		Mr.P.Kalyanasundaram, Consultant NDT concrete divisions, SERC Chennai.	National Workshop on Latest Advances on NDT Techniques for concrete /Civil Engineering
4		1.Dr.A.R.Santhakumar, Former Dean, Anna University, Chennai. 2.Dr.K.Elangovan 3.Dr.K.Subramaniam, Professor & Head, Coimbatore Institute of Technology, Coimbatore.	National Workshop on Seismic Vulnerability on structures and Rehabilitation Techniques /Civil Engineering
5		Mr. V.Ramesh Babu Lawrence and Mayo	National Workshop on Modern Surveying in association with Lawrence and Mayo /Civil Engineering
6		Mr.S.Gnanavel Murugan, Technical Ultratec cement, Coimbatore	National Workshop on Training Program for Mason /Civil Engineering
7	2014-2015	1. Dr.M.P.Muthuraj Coimbatore Institute of Technology, Coimbatore. 2. Dr.V.M.Shanthi, Associate Professor, Government College of Technology, Coimbatore -13.	Faculty Development Training Programme (FDTP) on Structural Analysis II / Civil Engineering

		Dr.Vinay Kumar Dadhwal, Scientist, ISRO	National Level conference "SPECT 2015
		Mr.S.Mahesh Anand, Founder and CEO of SCS, Chennai	Work shop on SCILABORATORY
8		Er.C.Balraj Maxcadd, Coimbatore	National Workshop on Applications of ANSYS in civil Engineering /Civil Engineering
9		Er.A.Samson Raj Survey consultant,Coimbatore	Seminar on Advance Surveying Technologies /Civil Engineering
10		Er.R.Alagesan Director and Monitoring Ministry of water resources, Coimbatore	National Workshop on Advances in water and wastewater management / Civil Engineering
11		Er.J.Udhayanand Managing Partner Nivedha constructions, Coimbatore.	National Conference on ICE-15 / Civil Engineering
12		Mr.YusufTurab M.D YT Enterprises	Students Chapter on Launch of IGBC student chapter –Green Building movement /Civil Engineering
13		Mr.Santhosh Manager-sales BASF, Coimbatore.	National Workshop on Advancement in Science and Technology of concrete /Civil Engineering
14		1.Dr.N.Ramsundram Assistant Professor (SRG)/ KCT. 2.Mr.KRP.Satheesh Kumar, Assistant Professor,KCT, Coimbatore	National Workshop on Introduction to MATLABORATORY in Civil Engineering /Civil Engineering
15		Dr.Saurabh Sinha, IEEE VP – FEBE, University of Johannesburg Dr.S. K. Ramesh, Dean of the College of Engineering and Computer Science, CSUN	Workshop on "EPICS in IEEE"/Information Technology
16		Dr.V.Dodhwal Scientist and Director, NRSC, ISRO, Hydherabad. Dr.P.Prakash Deputy Director,	National Conference on Signal Processing Embedded Systems and Communication Technology, SPECT 2015 /Electronics and Communication Engineering

		Anna University, Chennai.	
17	2013-2014	Er.X.JohnBritto Ultra RMC Coimbatore. Er. M.C. Srinivasan, Ultra RMC, Coimbatore.	National Workshop on Advancement in readymix concrete /Civil Engineering
18		Dr.Meenambal Professor & Head GCT ,Coimbatore	Faculty Development Training Programme (FDTP) on Mechanics of Solids /Civil Engineering
19		Er.L.Balaji Assistant Engineering Manager L&T construction, Chennai	National Level Technical Symposium Reinfo'13 on Engineering and Economics of Reinforced concrete buildings/Civil Engineering
20		Dr. S. Venugopal Outstanding scientist & Associate Director, Indira Gandhi Centre for Atomic Research, Kalpakkam. Dr. S. Ragavan, Professor,ECE, NIT, Trichy.	4th National Conference on "Communication, Information and Telematics"(CITEL - 2014) /Electronics and Communication Engineering
21		Dr.S. K. Ramesh, Dean of the College of Engineering and Computer Science, CSUN Ms.Akila Vaidyanathan, Founder Member Executive Council, Autism Society of India Dr. Sujata Missal, Principal and HoD, Occupational therapy department, KMCH hospital and KMCH College of Occupational therapy	Preconference workshop on "Intelligent Interactive Systems and Assistive Technologies "/Information Technology
22		Mr.Sriganesh Madhvanath, Senior Research Scientist and Research Manager, HP Laboratorys Dr. Quoc Bao Vo, Senior Lecturer, Swinburne University of Technology Dr. Shengdong Zhao,	International Conference on "Intelligent Interactive Systems and Assistive Technologies "/Information Technology

		Assistant Professor, Department of Computer Science, National University of Singapore Dr.Amit Anil Nanavati, Research Staff Member, IBM India Research Laboratory, New Delhi. Dr. A. Rajaraman,Visiting Professor, IITM, NITT and Hindusthan University	
23		Dr .B.K. Behera Indian Institute of Technology Delhi, New Delhi, India Mr.JiriMilitky Technical University of Liberec, Czech Republic Dr. Dana Kremenakova Technical University of Liberec, Czech Republic Dr. Rajesh Mishra Technical University of Liberec, Czech Republic Dr. Amit Rawal Indian Institute of Technology Delhi, New Delhi, India Mohamed A. Ramadan National Research Center, Textile Research Division, Egypt Prof Jin Lian Hu,Hong Kong Polytechnic Univesity, Hong Kong Dr.B.S.Butola Indian Institute of Technology Delhi, New Delhi, India	Indo-CzechInternational Conference (ICIC2014) On Advancements in Specialty Textiles and their Applications in Material Engineering and Medical Sciences /Textile Technology
24		Mr.Prabhu Rengaswamy, Director-PM, Skava systems, Coimbatore.	National Conference on Advanced Trends in Information and Computing Sciences (NCATICS'14)/Computer Science and Engineering
25	2012-2013	1.Dr.H.Lakshmikanth Environmental officer Karnataka state pollution	National Workshop on Solid waste management and cleaner environment/Civil Engineering

		control, Bangalore. 2.Mr.A.Sudhakar Chief technical consultant Coimbatore	
26		Mr.M.Ragunathan Chairman, Association of consulting civil Engineers , Coimbatore	National Conference on Innovations in Civil Engineering ICE'13
27		Dr. VasanthKini, M.D., Titan Industries, Bangalore Mr. A. Subrahmanyam, IIT-Madras Mr. SaiSivagorthi, IISc Ms. R. Mahalakshmi, DGM, Yokogowa	National Symposium on Instrumentation (Nsi-40)/ Electronics and Instrumentation Engineering
28		Dr.ParveenWahid, University of Florida, Orlando. Dr.Magdalena, President, Antenna propagation society(IEEE).	IEEE International Workshop on Women in Electromagnetics – WIEM'13 / Electronics and Communication
29	2011-2012	Mr.G.Srinivasan Srinivas Associates (P) Ltd, Coimbatore	National Level Technical Symposium Reinfo'12 on Modern Techniques in Civil Engineering / Civil Engineering
30		Mr.V.Ramesh Chief Engineer Mega star survey, Chennai	National level Workshop on Total Station Surveying / Civil Engineering
31		Dr.S.R.R. Sethilkumar Principal, PPG institute of Technology, Coimbatore	National Conference on Innovations in Civil Engineering ICE'12/ Civil Engineering
32		Mr. R. Venugopal Vice president for commercial functions and center head, Robert Bosch Engg. and Business solutions Ltd, Coimbatore Mr. Shakthivel Manikandan, Robert Bosch Engg. and Business solutions Ltd, Coimbatore	4th National Conference on "Communication, Information and Telematics"(CITEL - 2014) / Electronics and Communication
33	2010-2011	Dr.H.Lakshmikanth Environmental officer	National Workshop on Solid waste management and cleaner environment /

		Karnataka state pollution control, Bangalore	Civil Engineering
34		Dr.S.R.R. Sethilkumar Principal, PPG Institute of technology,Coimbatore	National Conference on Innovations in Civil Engineering ICE'12/Civil Engineering
35		Texas Tech University, Lubbock, USA	7th international conference Advances In Textiles, Machinery, Non Wovens And Technical Textiles ATNT 2011 was jointly organized by the Dept. of Fashion Technology, Dept. of Textile Technology and TIFAC CORE /Fashion Technology
36	2009-2010	Dr.A.SanthaKumar Centre for Disaster and Management, Chennai. Dr.E.B.Perumal Pillai Director-School of Engg& Tech Karpagam University. Dr.V.G.SriSanti Associate Professor CIT Coimbatore Dr.S.Thenmozhi Associate Professor, GCT Coimbatore.	National Workshop on Seismic Vulnerability on structures and Rehabilitation Techniques
37		Dr.B.Matcharajan Founder & CEO Yuva tech, Bangalore	National Level Technical Symposium on Reinfo'11/Civil Engineering
38		Er.L.Balaji Assistant Engineering ManagerL&T construction, Chennai	National Workshop on Application software in Civil Engineering//Civil Engineering
39		Mr.B.Ramesh Asst Vice President Marketing Chettinad Cement Chennai	National Conference on Innovations in Civil Engineering ICE'10//Civil Engineering
40		Dr.L.S.Jayagopal Mithran Structures, Coimbatore	National Conference on Innovations in Civil Engineering ICE'09//Civil Engineering

3.1.9 Details on the College initiative in transferring/advocating the relative findings of research of the College and elsewhere to the students and the community (laboratory to land).

- The Institution organized several Seminars, Conferences, FDPs, Workshops and guest lectures for the benefit of the students to expose the contemporary issues pertaining to their domain.
- Faculty members and research scholars from inside, and outside Institutions share their research findings to the student community through the above said programmes.
- Awareness about the latest research findings are exposed to the students' though of e-journals equipped in the College central library and the students are encouraged to register the online courses available at NPTEL, MOOC etc., offered by various premier institutes inside and outside India to update and enrich their domain knowledge.
- Department of It and IEEE Educational Activities have organized "EPICS (Engineering Projects in Community Services) in IEEE Workshop" at KCT on 20th and 21st April 2015.
- Students are also mentored by the faculty members to participate in National level contests such as BAJA, SUPRA, Go-Kart, Quadtrac, NIYantra championship and Electric solar vehicle competitions which enhances their technical skills.
- Faculty members and students' are also motivated to take up the several community oriented projects for the benefit of the society. Few samples of such projects are furnished below.
- KCT Business School batch (2013-15) from February 20 - 25th 2014 in enumerating the various aspects of Coimbatore City's Infrastructural development, as part of the Mass Survey conducted for Community Engagement Project.
- The project was initiated through the organization of Initiatives of Change, Centre for Governance and conducted under the aegis of KCT-Business School (KCT-BS) and Coimbatore Municipal Corporation (CMC).
- The students visited all the 100 wards attached with CMC and collected information on the various facilities provided by CMC. It was a great experience

for the students to have met around 15,000 households across Coimbatore city and thereby obtaining information of various facets thereof. This project is considered to be a hall mark assignment which was carried out by KCT-BS.

Sl. No.	Title of the Community oriented Projects
1.	Bio-electricity production from dairy waste water through MFC technology
2.	Intelligent Device for Ankle foot Orthosis
3.	Automatic accident detection and notification system using smart phones
4.	Optimal energy solution using combined heat & power (CHP) in process industries
5.	Design and fabrication of coconut dehusker
6.	Design and Development of Image Analysis System to objectively evaluate Seam Pucker
7.	Design and Development of Hand operated Liquid Carbon dioxide Stain remover gun for Textile Application
8.	Design and fabrication of automatic milk collection machine employed in milk collection centre
9.	Effect of Aggregate replacement in Concrete
10.	Design and development of dual rotation wind turbine system
11.	Automatic potter Wheel
12.	Solar fan for rural applications
13.	Robotic Chair
14.	Semi automated dry Banana fibre twister
15.	Design and development of Eco toy making machine
16.	Semi automated cone winder for twisted dry banana fibre
17.	Textile Crafts from Pineapple Leaf Fibres
18.	Development of Textile Crafts from Banana Stem fibre
19.	Standardization of Test Procedures for Sanitary Napkins
20.	Automatic Tollgate System using RFID with Customer Medical Details
21.	Heart Rate Monitoring System
22.	Detection of foreign bodies in food by image processing
23.	Self Help Group Management
24.	WSN for Temperature Sensing using Android
25.	RFID based Security System with Biometrics for Banking Transaction
26.	Function Simulation using Robotic Glove for Fracture Re-habitation
27.	A Cognitive Approach for Stroke Rehabilitation by Acute Hand Monitoring
28.	The fabrication of semiautomatic disposable diaper manufacturing machine
29.	Development of cost effective herbal treated disposable baby diapers
30.	Development of quality control standards for fastness properties of natural dyes

3.1.10 Give details on the faculty actively involved in research (Guiding student research, leading research projects, engaged in individual or collaborative research activity etc.)

List of recognized supervisors to guide doctoral research

S.No.	Name of the department	Name of the Research Supervisor
1.	Automobile	Dr.S.John Alexis
2.	Biotechnology	Dr.N.Saraswathy Dr. R. Baskar Dr.P.Ramalingam Dr. V. Stephen Rapheal Dr. K. Kumresan Dr. J. Aravind Dr.M.Shanmugaprakash
3.	Civil Engineering	Dr.J. Premalatha Dr. P. Eswaramoorthy Dr. K. Ramadevi
4.	Computer Science and Engineering	Dr.S.Thangasamy
5.	Electronics and communication Engineering	Dr. A. Vasuki
6.	Electrical and Electronics Engineering	Dr.Rani Thottungal Dr.R.Mahalakshmi
7.	Electronics and Instrumentation Engineering	Dr. Ezilarasi
8.	Fashion Technology	Dr. J. Srinivasan Dr. G. Ramakrishnan Dr. R. Shanthi Dr. V. Krishnaveni
9.	Mechanical Engineering	Dr. V. Muthukumaran Dr. P. K. Giridharan Dr. C. Velmurugan
10.	Textile Technology	Dr. Bhaarathi Dhurai
11.	Science and Humanities	Dr. S. Gopal Dr.P.S.Syed shabudeen Dr. U. S. Shobha Dr.V. Senthilnathan
12.	Computer Applications	Dr. W. Jai singh
13.	Business Administration	Dr.Vijila Kennedy Dr.V.R.Nedunchezhian Dr.Kirupa Priyadarsini Dr. R. Hemanalini

- The faculty members pursuing Ph.D. are provided in **3.1 Annexure II.**
- The UG and PG curriculum provides a mandatory major project work during the final semester, and henceforth, both the UG and PG students have to take up the major project work, and few departments offer mini-project work in the prefinal semester. The Post Graduate students generally take up their project work in two phases (Phase I and II) and actively explore the research problems and find suitable solutions.
- The outcome of the research may be the developments of techniques, products, and presentation of research findings in Seminars, Conferences, Symposium etc. and publication of papers in reputed journals.
- All the eligible faculty members of Engineering and Technology, MCA and MBA departments are involved in guiding the students for project work at UG and PG level.
- The faculty members are also guiding the students' projects sponsored by TNSCST, IEI, IEEE and others.

Leading Research Projects

The faculty members who are the PIs and Co-PIs of the external funded projects granted by various agencies such as DBT, DST, ISRO, DRDO, AICTE, RuTAG, IEEE, etc., are involved in research to explore effective solutions to problems existing in the industry/society.

Engaging in Collaborative Research

The faculty members are actively involved in various collaborative research projects with many Institutions and industries in specific thrust area. The partial list of collaborating Institutions/industries details are furnished below:

- M/s Keerthi International, Coimbatore, Tamil Nadu
- Cameron Manufacturing (India) Pvt. Ltd, Coimbatore, Tamil Nadu
- Common effluent treatment plant, Perundurai, Tamil Nadu
- Tamilnadu Energy solutions, Coimbatore
- California State University, USA
- Purdue University, USA
- Technische Hochschule Ingolstadt, Germany
- Tokyo Institute of Technology, Japan
- Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu
- California State University, Northridge, USA
- PRICOL Ltd., Tamil Nadu
- M/s Rimpacific Engineering Pvt. Ltd., Tamil Nadu

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization for last four years.

The details of budget sanctioned and utilised towards the research related activities for the last four years is furnished below:

Financial years	2014-15	2013-14	2012-13	2011-12
Sanctioned (Rs. in Lakhs)	18.25	23.7	30.25	22.50
Utilized (Rs. in Lakhs)	3.40	1.76	2.55	4.37
Percentage of utilization	18.63	7.42	8.43	19.42

The initiatives are taken by the College to promote the research culture and allied activities.

- Establishment of new laboratories in various specializations is done depending up on the requirement for the updated syllabus which enables students to update their skill set to carryout projects in contemporary research projects.
- College has established contacts with reputed industries like INTEL, Texas Instruments and National Instruments to set up laboratories in the departments.
- The management also supports projects relevant to social issues/ industries upon recommendation by the research committee.
- Software required for the computer laboratorys are purchased and periodically updated which are used for research projects.
- Periodically print and electronic versions of research journals are purchased.
- The college also sponsor for the presenting research findings in national and international conferences with on-duty and financial aid for the faculty members.

3.2.2 What are the financial provisions made in the College budget for supporting student research projects?

- All the departments offer the mini project and major project work (UG and PG) as part of the curriculum to inculcate research culture among the students.
- Apart from the mandatory financial commitment, additionally the Institution has created iQUBE (Technology Incubation Centre at KCT) that aims at students/alumni working on their ideas to see it as a product; http://www.kct.ac.in/centres/iqube/. iQUBE is specially meant for students from various disciplines to improve and excel

their technical experience. It has an R & D laboratory where one can experiment the idea with the available resources and financial support may be extended for the outstanding projects that may be converted into a prototype models.

- Financial assistance are also offered for special/ selected student projects with significant research impact (e.g. BAJA design contest)
- Additional equipments are purchased to carry out student research projects and list of such equipments are available to carry out student research projects in the respective departments.

The budget details for students projects for last four years are summarized below.:

Financial years	2014-15	2013-14	2012-13	2011-12
Student's projects (Rs.in Lakhs)	9.64	1.10	0.31	0.25
iQUBE expense (Rs. in Lakhs)	10.59	5.23	-	-
Total expenses (Rs. in Lakhs)	20.23	6.33	0.31	0.25

3.2.3 Is there a provision in the Institution to provide seed money to faculty for research? If so, what percentage of the faculty has received seed money in the last four years?

Yes.

- There is a provision in the Institution to provide seed money to faculty for research. From each department potential research projects are forwarded by the concerned HoD to the Dean (R & D) cell.
- The RRC in consultation with experts from the various fields recommends the proposal for Institution financial support.
- This helps the potential researchers to carry out ground work and validate their idea subsequently to generate preliminary research data to support research proposals to funding agencies.

List of projects supported by the college management in last four years

Dept.	Project Title	Amount (Rs.)
BT	Development of an innovative hybrid biosorbent for the removal of metals from electroplating industry effluent	70,000
	Comparative studies on the antioxidant, phytochemical and antimicrobial activities of the pulp and peel extracts of local varieties of banana.	25,000

	Evaluation and Comparison of Antioxidant Activities in Egg Yolk Varieties: Implications in Diseases Prevention	50,000
CSE	Robust Fingerprint Identification System	15,000
	Efficient Data Exploration for E-Governance	30,000
FT	Development of Herbal Anti-Microbial Medicated Cotton and Bandages	25,000
	Development of Nonwoven Interlining from Shuttleless Loom Silk Selvedge Waste	25,000
	Development of Online Measuring Device for Controlling Sewing Machine Parameters	27,000
	Development of Merchandising Software for Apparel Industry	25,000
	Recycling of Knitted and Woven waste and Development of Product for Agricultural end use.	25,000
	Development of Multi-layered Fabrics to Prevent Bedsore	25,000
IT	Database Management System	1,00,000
ME	Investigations on the effect of heat treatment on wear properties of Al6061 metal matrix composites	35,000
	Prediction and optimization of the bead shape parameters in austenitic stainless steel claddings	40,000
	Modelling of tool flank wear and role of temperature in predicting flank wear in end milling	40,000
	Investigation of thermal performance of solar crop dryer using heat pipes	25,000
	Investigation of behavioural characteristics of Bio- Materials under surface treatments	60,000
	Fabrication and Characterization of fly ash SIC MMC	25,000
MCE	Design and fabrication of Four legged walking Robot	40,000
	Design and Development of Bipedal Walking Robot	30,000

3.2.4 Are there any special efforts made by the College to encourage faculty to file for patents? If so, provide details of patents filed and enumerate the sanctioned patents.

The Institution motivates the faculty members and students to file the patents pertaining to their area of outcomes of research work. The details of patents/ designs filed are furnished below:

Sl.No	Details of the patent	Application No.	Year of filing patent
1	Menuka Honey Wound Bandage/ Dr.Bhaarathi Dhurai and Ms. L.Sasikala, Textile Technology	Temp/E-1/23562/2015-CHE	2015
2	Natural Drug loaded Silk Sutures, Dr. Bhaarathi Dhurai and Ms.D.Sudha, Textile Technology	Temp/E-12/796/2015/CHE	2015
3	Digital Dust Evaluation Instrument / Mr.S.Sundersan, Assistant Professor, Textile Technology	Temp/E-1/39193/2015-CHE	2015
4	Design of multichamber flow splitting Muffler, Dharani V and Venkatesh/Aero	816/CHE/2014	2014
4	Robot controlled automated super market / Mr.Sathya Narayanan/ MEC and Mr.P.Sidharth/ ECE	5070/CHE/2014	2014
5	Selective process for complete removal of dyes in textile direct dye bath effluent and textile dyeing wash liquors using hydrophobic interaction chromatography matrices/Dr.P.Ramalingam/Dr.N.Saraswathy/Ms.D.Muthudharani/BT	404/CHE/2013 C.B.R. No. : 1315	2013
6	Design Manufacture and Testing of a Combined Alpha-Beta Double Piston Stirling Engine. Mr.Sakthi Kumar Arul Prakash (12BMC044), Mr. Calvin Antony Anbarasu(12BMC011)/MCE	3947/CHE/2015	2015
7	Multi Purpose Bottle cum Snack Box./ Mr.Sakthi Kumar Arul Prakash(12BMC044)	3948/CHE/2015	2015

3.2.5 Provide the following details of ongoing research projects:

Title of the project	Funding agency	Amount (Rs. In lakhs)
2015- 2016		
Extraction of residual dyes from textile dye bath effluents using solvents in multistage centrifugal extractor	DST	30.40
Enhancing Livelihood of Handloom Weavers	DST-SEED	11.54

through Technology Upgradation and Training in Samathur Block, Pollachi, in Tamilnadu" . Dr.Ramakrishnan/TIFAC CORE		
Assessment of material properties of A5083 MMC for use in UAV's operating in low temperature region (Mechanical Engineering)	Institution of Engineers (India)	0.40
2015 Study of Weld Thermal Cycle, Temperature Distribution and Cooling Rates in Weldments of Inconel 718 Alloy	Cameron Manufacturing (India) Pvt. Ltd	Goodwill
Control of Dilution in Inconel 625 Claddings	Cameron Manufacturing (India) Pvt. Ltd	Goodwill
Erosion modelling In CFD	Cameron Manufacturing (India) Pvt. Ltd	Goodwill
Fabricated Gate Valve Design	Cameron Manufacturing (India) Pvt. Ltd	Goodwill
2013 Development of banana peel protease-based wound dressing material for genital warts **(BT & TXT)**	DBT	32.87
Preparation and evaluation of in – situ forming alginale hydrogel with curcummin as bioactive wound dressing material/ **BT**	DBT- RGYI	10.40
2012 Wavelet based Image Compression/De-compression with pipelined architecture on FPGA **(ECE)**	ISRO – RESPOND	5.18
2011 Hardware Implementation of Image Enhancement Using Wavelet / Retinex Algorithms **(ECE)**	ISRO – RESPOND	4.50
FPGA Based Single Chip Implementation of AES (RIJNDAEL ALGORITHM) Encryption and Decryption with Error Correction **(ECE)**	Directorate of Extramural Research and IPR (DRDO)	6.60

3.2.6 How many departments of the College have been recognized for their research activities by National / International agencies (UGC-SAP, CAS, DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthrough due to such recognition.

- Various departments in college are recognized by the National agencies such as DST, DBT, AICTE, DRDO and International society IEEE to carryout projects by the faculty and students.

- Ten departments are recognized as research centre for carrying out research leading to Ph.D. by Anna University, Chennai.

Sl.No.	Department recognized as research Centre	Recognition detail
1	Biotechnology	Lr.No.712/IR/Renewal/ARI dated 23.12.2013
2	Civil Engineering	Lr.No.712/IR/Renewal/ARI dated 23.12.2013
3	Electronics and Communication Engineering	Lr.No.712/IR/Renewal/ARI dated 23.12.2013
4	Mechatronics Engineering	Lr.No.712/IR/Renewal/ARI dated 23.12.2013
5	Textile Technology	Lr.No.712/IR/Renewal/ARI dated 23.12.2013
6	Fashion Technology	Lr.No.712/IR/Renewal/ARI dated 23.12.2013
7	Computer Science and Engineering	Lr.No.712/IR/Renewal/ARI dated 23.12.2013
8	Management studies	Lr.No.712/IR/Renewal/ARI dated 23.12.2013
9	Chemistry	Lr.No.712/IR/Renewal/ARI dated 23.12.2013
10	Mechanical Engineering	Lr.No.712/IR/Renewal/ARI dated 23.12.2013

Significant Outcomes

- TIFAC-CORE is carrying out research on technical textile and various consultancies are offered to the textile mills in Coimbatore. DST-National Science and Technology Entrepreneurship Development (NSTED) supported Technology Business Incubator (TBI) is hosted within the campus to the tune of Rs. 15 crores (Rs.5 Crores from DST-NSTED and Rs. 10 Crores from KCT management) support the various incubatees to develop their products.

- Several research projects have been undertaken and successfully completed by the College faculty during the last four years.

- The total fund sanctioned by various funding agencies to carry out research project is Rs.154.45 lakhs.

List Departments received research funding from various National and International funding agencies

Sl.No	Name of the Department	Detail of Funding agency
1.	Biotechnology	DBT, DST, AICTE, TNSCST
2.	Civil Engineering	AICTE, TNSCST, DST
3.	ECE	ISRO-RESPOND, DRDO
4.	EEE	RuTAG, Keerthi International
5.	TXT	DBT, DST
6.	FT	DST-SEED ,AICTE, TNSCST, RuTAG, DST
7.	CSE	DRDO, CSIR
8.	ME	DST-SEED, AICTE-MODROBS, IEI, TNSCST,
9.	MCA	AICTE
10.	MBA	DST-SEED, UGC
11.	S&H	DST
12.	IT	IEEE, TNSCST,

3.2.7 List details of completed research projects undertaken by the College faculty in the last four years and mention the details of grants received for such projects (funded by Industry/National/International agencies).

Sl.No	Details	Number of Projects
1	Completed Research Projects supported by Government and Management for the last four years	45
2	Ongoing Research Projects supported by Government and Management	7

Research projects supported sanctioned by state and National level funding agencies

Sl. No.	Project Title	Amount (Rs. in Lakhs)	Funding Agency
2011-12			
1.	Development of an innovative hybrid biosorbent for the removal of metals from electroplating industry effluent	0.70	KCT Management
2.	Comparative studies on the antioxidant, phytochemical and antimicrobial activities	0.25	KCT Management

	of the pulp and peel extracts of local varieties of banana.		
3.	Iterative Detection – Decoding in OFDMA Systems for Multimedia Transmission	2.50	RPS, AICTE
4.	Modernization of Optical Communication Laboratory with Photonic Design Automation Software	11.00	MODROBS, AICTE
5.	WIE Video Project	12.50	IEEE
6.	The fabrication of semiautomatic disposable diaper manufacturing machine	2.00	RuTAG (Rural Technology Action Group, IIT, Chennai) (State Agency)
7.	Development of cost effective herbal treated disposable baby diapers	1.50	Gandhigram Trust, Dindugal (State Agency)
8.	Indo-French Project (Institute of Agronomical research, Project No 7102, Optimization of fixed bed reactor).	30.00	Indo-French collaboration
2012-13			
9.	Design and Development of Image Analysis System to objectively evaluate Seam Pucker	0.10	TNSCST research project
10.	Design and Development of Hand operated Liquid Carbon dioxide Stain remover gun for Textile Application	0.10	TNSCST research project
11.	Design and automation of ECO friendly Machinery	0.15	IEEE
12.	Development and evaluation of chitosan Nanfilm loaded with curcumin as would dressing material	14.58	Department of Bio Technology
13.	Structural Technology Centre	14.40	AICTE MODROBS
2013-14			
14.	Pilot scale fermenter	10.00	AICTE MODROBS
15.	A process development for purification of debittering enzymes based on aqueous two phase extraction	6.02	DST-FAST TRCAK

16.	Complete removal of recalcitrant dyes in textile effluents by organic solvents using multistage centrifugal extractor	24.90	DST
17.	Multimodal biometric authentication system for secured access control applications	6.70	DRDO
18.	Development of Nonwoven Interlining from Silk Selvedge Waste	8.15	Research Promotion Scheme (RPS) , AICTE
19.	Textile Craft s from Pineapple Leaf Fibres	1.50	Rural Technology Action Group (RuTAG), Govt. of India.
20.	Intelligent Device for Ankle foot Orthosis	0.08	TNSCST
21.	DST-TEDP NIMAT Project - Women entrepreneur ship development programme on sanitary napkin manufacturing	2.80	DST (EDI), Government of India, Gujarat
2014-15			
22.	Development of banana peel protease based wound dressing material for genital warts	32.80	DBT
23.	Automatic potter Wheel	1.15	RuTAG
24.	Solar fan for rural applications	0.17	
2015-16			
25.	Design and development of dual rotation wind turbine system	1.25	M/s Keerthi International, Coimbatore

3.3. Research Facilities

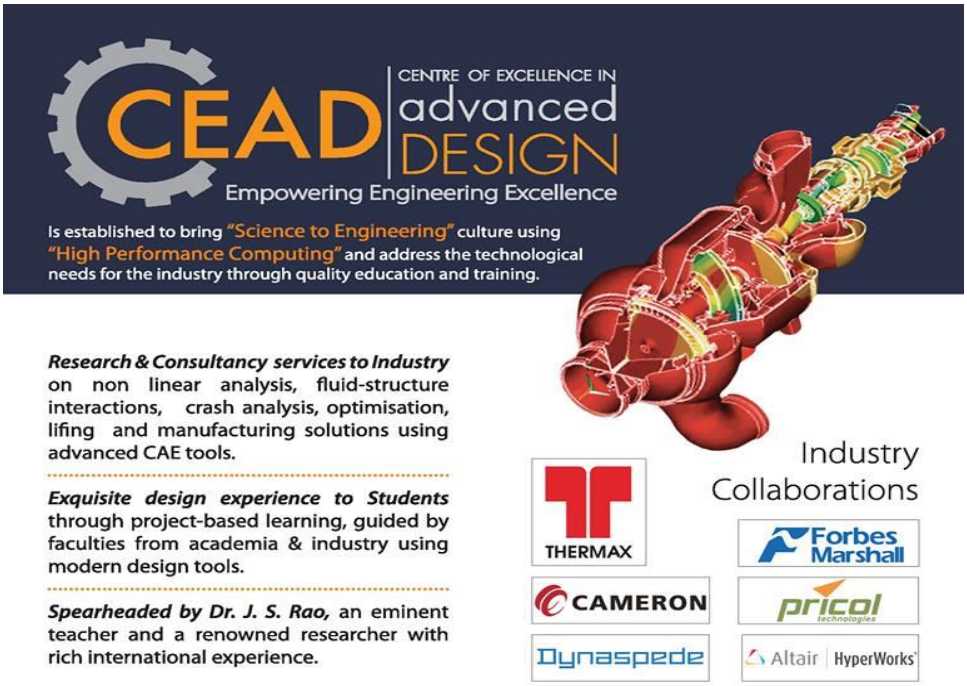
3.3.1 What efforts are made by the College to keep pace with the infrastructure requirements to facilitate Research? How and what strategies are evolved to meet the needs of researchers?

- The Institution has provided significant contribution to facilitate the research among the student and faculty by providing state of the art infrastructure in various domains.

- The facilities provided include equipments, software, consumables, internet facility, subscription to research journals such as IEEE and Science direct.
- Internet facility is created in the campus with 256mbps speed.
- Wi-Fi facility is also available in various academic blocks and hostels to facilitate learning by the students.
- Appropriate strategies are formulated periodically by the R & D cell in aiding the researchers for smooth execution of research activities.
- Special research facilities like

i. Centre of Excellence in Advanced Design (CEAD)

CEAD is established to bring "Science to Engineering" culture using "High Performance Computing" and address the technological needs for the country through quality education and training.



CEAD

Major activities of CEAD

- Enables students to face design challenges in aerospace, automotive, civil, electronics, mechanical, marine, mechatronics, energy, textile and other domains.

- Inculcates modern design tools for basic sciences of solids, fluids, heat transfer, electromagnetism leading to lifting and optimization and make the students ready for industry absorption.
- Offers students excellent design learning experience through project based learning and help them to develop a close empathy with the global engineering design community and experts in the industry through stronger industry academia collaboration and adjunct faculties from industries.
- Provides advanced solutions, research and development support to industries in product development with an experienced pool of faculty and advanced infrastructure available in various domains.
- Conducts regular training courses for students, faculty and industry engineers to update skill sets relevant to current design industry requirements and on industry specific design tools.

ii. iQUBE

It is a Technology Incubation Centre at KCT that aims at people working on their ideas to perceive it as a product. iQUBE is specially meant for students to improve and excel their technical experience. It has an R & D laboratory where one can experiment their idea with the available resources that are available in the laboratory. For outstanding Ideas and Projects, one would even get funded to complete a prototype model. It further aims at mentoring and training the interested ones with the necessary and updated technology.

Major activities of iQUBE

- Regular Guest Lectures by Experts (Technology, Innovation, Technopreneurship)
- Providing Workstations, Development Kits, Sensors, Software, Hi-Speed Internet, Gaming Consoles
- Project Guidance, Mentoring and Recognition
- Working with Real Time Industrial Projects
- Industry Internship to students – based on Performance and Skills
- Funding for Innovative Projects
- Weekend Workshops / Tech-Reviews
- Project Demos
- Support for Inter-College Technical Events

- Consulting for Core-Company Placements
- Industrial Visits / Tours
- Working with Ongoing Research Projects



Students discussing project ideas in iQUBE

iii. Structural Technology Centre (STC)

The STC has been established in the year 2003 with a view to take up Testing, Research and Consultancy projects in the areas of building materials for construction and structures. The STC aims to provide thrust to support infrastructure development and to enhance local technological capabilities through the use of improved new materials and versatile construction technologies. The centre has been systematically carrying out focussed consultancy work that is of strategic importance to the construction industry. The Centre also promotes testing services for building materials as per codal provisions.



Testing of Building Materials

- Tests on materials like cement, aggregates, concrete, steel, structural steel, wood/timber and ceramic tiles as per Indian Standard Specification
- Concrete mix design for various performance requirements like strength, workability, durability and pumpability as per codal provisions.

- Performance evaluation tests on concrete chemical admixtures and mineral admixtures.
- Load test on full scale/ size pre cast concrete/steel structural components using advanced data logger system and 200 ton load frame.
- Quality of water test to suit concrete construction.

Total amount Received from AICTE under MODROBS funding - Rs 24.4 lakhs

1. **Modernization of Structural Technology Centre - Rs.14.4 lakhs**

S.No	List of Equipment procured	Cost(Rs.)
1	RCPT Test apparatus	6,93,984.37
2	Corrosion analyzer	5,36,366.64
3	Air Permeability Test apparatus	2,08,750.28
4	Electrical fittings	33,901.00
	Total	**14,73,001**

2. Augmenting environmental engineering laboratory with Gas chromatograph - Rs.5 Lakhs
3. Augmentation of Survey laboratory with Total station - Rs.5 lakhs

iv. KCT-TIFAC CORE

- KCT- TIFAC CORE is established to make the Indian textile industry the global leader by developing human resources of world-class and by undertaking research in front line areas relevant to the Indian textile sector.
- Among 32 centres, the Centre of Relevance & Excellence (CORE) established at KCT is the 20th CORE in the country under the Mission REACH, specializing in **TEXTILE TECHNOLOGY & MACHINERY**. KCT-TIFAC CORE is the first centre dedicated to the textile / apparel sector in India.
- While the Institution provides the site and some initial requirements, the government brings in resources adequate enough to overcome the sub-criticality and the user organizations bring in resources as well as relevance to the efforts.
- Substantial financial resources are pooled towards realizing excellence in focused areas of intense relevance to the Indian industry.

❖CORE addresses post-graduate education, vocational training and R&D requirements of the industries

Facilities at KCT TIFAC-CORE



Advanced Manufacturing Lab



Advanced Testing Lab



Advanced CAD Lab



KS Lakshmanan, Dr G Ramakrishnan, SR Kalimuthu, Principal, Indian Institute of Handloom Technology, Kannur Dr J Srinivasan and K Gopinath with workshop CD-ROM released during the workshop.

v. Technology Business Incubator(TBI)

Coimbatore Innovation and Business Incubator (CIBI) is supported by National Sciences and Technology Entrepreneurship Development (NSTED), Government of India and KCT management for the total budget out lay of Rs. 15 crores.

❖ LECTRA Laboratory, World Global Sourcing Network (WGSN) and Assyst Bulmer Laboratory – Laboratorys have been given free software but the amount for yearly subscription is provided by the Management

Lectra Apparel CAD Centre: This centre, promoted in collaboration with M/s. Lectra, France, with a total outlay of about Rs. 9 crores, is equipped with 30 terminals and a digitizer. Lectra softwares for textile design, apparel pattern drafting and fabric spread planning are useful for students' training and industry consultancy.

Garment Construction Laboratory



Pattern Engineering Laboratory

Mehala – Assyst Bullmer Centre of Excellence for Virtual Garmenting: This centre, promoted in collaboration with M/s. Mehala Machines India Ltd., Tirupur and M/s. Assyst Bullmer Spezial Machinen GmbH & Co. KG, Germany, with a capital outlay of about Rs.1.50 crores, is equipped with 22 numbers latest computing systems. In this centre, 2D software 'CAD Assyst' and 3D software 'Vidya', are used for training post graduate students in rapid prototyping and virtual garment construction.

3.3.2 Does the College have an information resource centre to cater to the needs of researchers? If yes, provide details on the facility

Yes.

- The college provides required information to the faculty and students through Online Public Access Catalogue (OPAC) is the system of intranet facility in the college to access library database within the campus.
- The details of the information available in the central library are furnished below.

a) Print version

Particulars	Total No.
Books	103543
Journals	178
Back Volumes	9568

b) Non Print version

Particulars	Total No.
CD/DVDs	5816
Audio/Video Taps	100
Floppy	458

c) Electronic version

Particulars	Total No.
e-Books	632
e-Journals	9893

Reference books	3288
Standards	188
Projects reports	4556

3.3.3 Does the College provide residential facilities (with computer and internet facilities) for research scholars and faculty?

Yes.

- Residential facilities are available for teaching and supporting staff.
- The Institution has provided the computer and internet facilities (Wi-Fi) to the students in hostels and faculty members in

3.3.4 Does the College have a specialized research centre/ workstation to address challenges of research programmes? If yes, give details.

Yes.

- The college has a specialized research centres to address the research issues in various domains.
- The following are specialized laboratorys/centres which are equipped with state of art facilities to carry out the research projects in various domains.

Sl.No	Details of specialized laboratorys/Centres	Facilities/ services available
1	TIFAC-CORE	➢ Medium Volume Instrument for fibre testing ➢ Optical Microscope with Image Analyser ➢ Evenness Tester with Hairiness Module ➢ Universal Instron Tester- ➢ Water Vapour Permeability Tester ➢ Perspirometer ➢ Spray Rating Tester ➢ Computer Color Matching System ➢ UV – Vis Spectrophotometer ➢ Permetester ➢ Sewability Tester ➢ Digital Auto pick counter ➢ Airtronic Permeability Tester
2	Structural Technology Centre (STC)	➢ Testing Of Building Materials ➢ Quality control audit, ➢ Soil Investigations and Foundation Design ➢ Structural Diagnosis and Rehabilitation of Structures

3	CEAD	➢ Solutions for design challenges in Aerospace, Automotive, Civil, Electronics, Mechanical, Marine, Mechatronics, Energy, Textile and other domains ➢ Inculcates modern design tools for basic sciences of solids, fluids, heat transfer, and electromagnetism leading to lifting and optimization ➢ Provides advanced solutions, research and development support to industries in product development with an experienced pool of faculty ➢ Conducts regular training courses for students, faculty and industry engineers to update skill sets relevant to current design industry requirements

3.3.5. Does the College have research facilities (centre, etc.) of regional, national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.

Yes. The college has the following research facilities that are used for research and consultancy work used by the industry partners/ research scholars from other Institution. The information is provided in 3.3.4 section.

Partial list of industry customers using KCT -TIFAC CORE facility

- M/s.Reach Sewn Technologies & Consulting Pvt.Ltd, Bangalore
- M/s.Sangeeth Textiles, Coimbatore
- M/s.Statex engineering, Coimbatore

Partial list of industry customers using Structural Testing Centre (STC) Facility

- M/s. Grasim Industries Ltd (Cement Division), Coimbatore
- M/s. Shanthi Constructions, Coimbatore
- M/s. Vishwanathan construction Pvt. Ltd, Coimbatore
- M/s. Cee Dee Yes Housing and Infrastructure Ltd, Coimbatore
- M/s. Associated Cement Companies Ltd, Coimbatore
- M/s. KTVR Vijaydeepa group, Coimbatore
- M/s. Preamangala promoters, Coimbatore
- M/s. Sree Sabari Constructions, Coimbatore

- M/s. Airport Authority of India, Coimbatore
- M/s. East Coast Construction Ltd, Chennai
- M/s. Creativity Constructions Concept Pvt. Ltd, Chennai
- PWD/CPWD/TWAD/RAILWAY/HIGHWAY Departments, Coimbatore.
- White House Residencies, Coimbatore
- Green Valley Promoters, Coimbatore
- Sahara City, Coimbatore

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the College through the following:

a. Major Papers presented in Regional, National and International Conferences

Year	Total number of papers presented in National and International conferences
2011-2012	105
2012-2013	121
2013-2014	114
2014-2015	136

b. Publication per faculty

The details of research publication by per faculty member is given below

Year	Total Publications	Total Number of Faculty contributed	Publication per faculty
2012-2013	434	154	2.81
2013-2014	514	194	2.64
2014-2015	633	235	2.69

c. Faculty serving on the editorial boards of national and international journals

Sl.No	Name of the faculty	Name of the Journal	Role
1.	Dr.V.R.Nedunchezhian/ MBA	The Investment Analysts Journal	Reviewer
2.	Dr. S Hema /CSE	International Journal of Software Engineering and Knowledge Engineering ,	Reviewer
3.	Dr.N.Saraswathy/BT	Journal of macromolecular research	Reviewer
4.	Dr. T. Sathish Kumar/ BT	Pharmaceutical Biology	Reviewer

5.	Dr.P.Ramalingam/BT	Journal of Hazardous material / Indian J. Biotechnology	Reviewer
6.	Dr.M.Shanmugaprakash/ BT	Frontiers in Energy Research, Nature Publishing Group	Associate/ Assistant editor
7.	Ms.P.Kanmani / BT	International Journal of Environmental Science and Technology	Reviewer
8.	Ms.P.Kanmani/ BT	Electronic Journal of Biotechnology	Reviewer
9.	Dr.S.Sivamani/ BT	Environmental Progress & Sustainable Energy	Reviewer
10.	Dr.S.Sivamani/ BT	Sky Journal of Journal of Microbiology Research	Reviewer
11.	Dr.S.Sivamani/ BT	World Journal of Agricultural Sciences	Reviewer
12.	Ms.S.Nithya Priya/ BT	International Journal of Scientific Engineering and Technology (ISSN : 2277-1581)	Reviewer
13.	Dr.N.saraswathy/ BT	Soudi Journal of Biological sciences	Reviewer
14.	Dr.N.saraswathy/ BT	Advances in Microbiology	Reviewer
15.	Dr.N.saraswathy/ BT	African Journal of biochemistry research	Reviewer
16.	Dr.N.saraswathy/ BT	Pharmaceutical biology	Reviewer
17.	Dr.N.saraswathy/ BT	African Journal Of Biotechnology	Reviewer
18.	Dr.K.Ramadevi/CE	Aim and Scope International Journal of Research and Analytical Reviews (IJRAR), ISSN:2349-5138, Atman Publishing Academy	Editor
19.	Dr.J.Cynthia/ IT	Wireless Networks, SpringerISSN: 1022-0038 (print version) ISSN: 1572-8196 (electronic version)	Reviewer
20.	Dr.J.Cynthia/ IT	KSII Transactions on Internet and Information Systems	Reviewer
21.	Dr.RAMALATHA MARIMUTHU/IT	IEEE JOURNAL ON IOT	Reviewer
22.	Dr.R.K. Kavitha/MCA	Asian Social Science, Canadian Center of Science and Education	Reviewer
23.	Dr. W. Jai Singh/MCA	Biomedical Signal Processing & Control	Reviewer
24.	Dr. W. Jai Singh/MCA	Cancer Management and Research	Reviewer
25.	Dr. W. Jai Singh/MCA	Computers in Biology and Medicine	Reviewer
	Dr. W. Jai Singh/MCA	Expert Systems	Reviewer

d. Faculty members on the organization committees of international conferences, recognized by reputed organizations / societies.

Sl.No	Name of the Faculty	Name of the Conference & nature of duties
1.	Dr. S. Thangasamy/CSE	International Conference on 'Intelligent Interactive Systems And Assistive Technologies' (IISAT13) during August 2-3, 2013 ➢ Organising Committee member
2.	Prof. N. Jayapathi/CSE	International Conference on 'Intelligent Interactive Systems And Assistive Technologies' (IISAT13) during August 2-3, 2013 ➢ Finance Committee Chair
3.	Dr. D.Chandrakala/CSE	International Conference on 'Intelligent Interactive Systems And Assistive Technologies' (IISAT13) during August 2-3, 2013 ➢ Planning and Promotion Committee Chairs
4.	Dr.P. Devaki/CSE	International Conference on 'Intelligent Interactive Systems And Assistive Technologies' (IISAT13) during August 2-3, 2013 ➢ Technical and Publication Committee Chair
5.	Dr.Ramalatha Marimuthu/IT	IEEE Women in Engineering Committee Meetings
6.		IEEE Educational activities Board Meetings
7.		Grace Hopper Celebration of Women in Computing , Houston Texas -Organising Committee meetings
8.		Grace Hopper Celebration of Women in Computing ,Bangalore ,India-Organising Committee meetings
9.		Global Marathon by discover E Engineering, virtual conference-organised
10.		IEEE Asia Pacific Regional Meetings
11.		IEEE Women in Engineering Committee Meetings
12.		IEEE Educational activities Board Meetings
13.		Global Marathon by discover E Engineering, virtual conference-organised
14.		IEEE Asia Pacific Regional Meetings
15.		Grace hopper celebration for women in computing-Minneapolis-USA- Organising Committee meetings
16.		Grace Hopper Celebration of Women in Computing , Bangalore ,India-Organising Committee meetings
17.		IEEE International Workshop on Women in Electro-Magnetics, IEEE Bangalore section-Organising Committee meetings

18.		Faculty Development programme on " Cloud & Grid Computing", PSG College of Technology, Coimbatore
19.		IEEE Women in Engineering Committee Meetings
20.		IEEE Educational activities Board Meetings
21.		Global Marathon by discover E Engineering, virtual conference-organised
22.		IEEE Asia Pacific Regional Meetings
23.		Grace Hopper Celebration of Women in Computing , Baltimore, Maryland U.S.A -Organising Committee meetings
24.		Grace Hopper Celebration of Women in Computing , Bangalore ,India-Organising Committee meetings
25.		Presentation on "Autism & Dyslexia: Assistive Technology for out of Sync children" for Google's special need group, Mountain view, California

3.4.2 Does the College publish research journal(s)? If yes, indicate the composition of the editorial board, publication policies and whether it is listed in international database?

Yes.

The KCT-BS publishes a research journal viz., Journal of Applied Management Research.

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Journal of Applied Management Research, January 2014

ISSN: 2319-1228

Aims and Scope: The objective of the Journal for Applied Management Research (JAMR) is to provide a national forum for discussion of advancements in Marketing, Human Resource, Finance, Operations and System Management. The Journal publishes high-quality research articles in all these areas. The Journal particularly encourages articles dealing with national and international issues, practical experiences, and pedagogical aspects including case research, developments in the emerging nations, service management and other non-traditional and innovative areas. Purely theoretical articles should make significant contribution to the existing knowledge.

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3.4.3 Give details of publications by the faculty

The following is a summary pertaining to the research paper publications, monographs, Books, book chapters, book editing, and monographs publications, Paper publication listed in international databases, citation index, SNIP, SJR, average impact factor and h-index of the faculty members of various departments.

S. No.	Item	Details
1.	Research paper publication (National/ International)- including multiple authors	1274
2.	Book publication	12
3.	Monographs	1
4.	Book chapters	3
5.	Editing Books	-
6.	Number of research papers listed in International Databases	165
7.	Citation Index – range / average	Total Nos: 780 Average: 65
8.	SNIP	Min: 0.1; Max: 13.51
9.	SJR	Min: 0.1; Max: 14.95
10.	Impact factor – range / average	Range: 0.1 to 30 Avg. :5.052
11.	h-index	Min: 1; Max: 9

c) Chapters in Book

Sl. No	Name of Text Book	Faculty	Publisher	ISBN Number
1.	Applications of Evolutionary Algorithms for Multi-objective optimization in VLSI and Embedded Systems	Ms. M. Shanthi/ ECE	Springer India	ISBN 978-81-322-1957-6 ISBN 978-81-322-1958-3 (eBook)
2.	Biotechnology: Concepts and Applications	Dr. P. Ramalingam, Dr, R. Baskar/ BT	Narosa Publishing House	ISBN-13: 9788173199028
3.	Application of Biotechnology in the Processing of Textile Fabrics	Dr. R. Shanthi/ FT	Springer Science + Business Media, Singapore	ISBN 978-981-287-064-3

Books with Publisher details :

Sl.No	Name of Text Book	Faculty	Publisher	ISBN Number
1.	Antenna and Wave propagation	Ms. A. Amsaveni/ ECE	Anuradha Publications	-----
2.	Industrial engineering in	V. Ramesh Babu/ TXT	Woodhead Publishing	ISBN 0 85709 107 7

	apparel production			ISBN-13: 978 0 85709 107 9
3.	Textiles for Industrial Applications	R. Senthil Kumar/ TXT	CRC Press, Taylor & Francis Group, LLC	ISBN 1978146656649
4.	Enzyme Technology (1st Edition)	S.Shanmugam and T.Sathishkumar/ BT	I.K International Publishers Pvt.Ltd NewDelhi	ISBN-10: 9380026056; ISBN-13: 978-9380026053
5.	Laboratory Handbook on Biochemistry	S.Shanmugam T.Sathishkumar/ BT K.Paneerselvam	PHI Learning Pvt. Ltd., New Delhi	ISBN 10: 8120341031 ISBN 13: 9788120341036
6.	Concepts and Techniques in *Genomics* and Proteomics	N.Saraswathy and P.Ramalingam/ BT	Elsevier, Oxford / New York	ISBN: 978-1-907568-10-7
7.	Enzyme Technology (2nd Edition)	S.Shanmugam T.Sathishkumar and M.Shanmugaprakash/ BT	I.K International Publishers Pvt.Ltd New Delhi	ISBN-10: 9381141592 ISBN-13: 978-9381141595
8.	The Sustainable Apparel Coalition and the Higg Index	Dr. R. Shanthi/ FT	Springer Science + Business Media, Singapore	ISBN 978-981-287-163-3
9.	Social Impacts of the Clothing and the Fashion Industry	Dr. R. Shanthi/ FT	CRC Press, Taylor and Francis Group	ISBN 978-1-4832-9939-7
10.	Eco-Parameters and Testing of Sustainable Textiles and Apparels	Dr. R. Shanthi/ FT	CRC Press, Taylor and Francis Group	ISBN 978-1-4832-9939-3
11.	Environmental Communication and Green Claims of Textile Products	Dr. R. Shanthi/ FT	CRC Press, Taylor and Francis Group	ISBN 978-1-4832-9939-3

12.	Fashion Industry and Sustainability	Dr. R. Shanthi/ FT	CRC Press, Taylor and Francis Group	ISBN 978-1-4832-9937-3

3.4.4 Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty

- Nine research centres are offering Ph.D. programmes in various domains such as Applied Electronics, CAD/CAM, Communication Systems, Computer Science and Engineering, Energy Engineering, Embedded systems - Industrial Engineering, Power Electronics and drives, Structural Engineering, Biotechnology, Apparel Technology, Textile Technology, Master of Computer Applications and Master of Business Administration. The number of PhDs successfully guided by the faculty members is given below.

S. No.	Name of the Department	Name of the Faculty	No. of Ph.D guided
1.	E&I	Dr.M. Ehzilarasi	1
2.	FT	Dr.J.Srinivasan	1
		Dr.G.Ramakrishnan	4
3.	BT	Dr. R.Baskar	1
		Dr. N. Saraswathy	1
4.	IT	Dr.RamalathaMarimuthu	2
5.	TXT	Dr.Bhaarathi Dhuari	4
6.	S & H	Dr. U.S Shoba	1
7.	KCTBS	Dr. V. R. Nedunchezhian	5
		Dr. Vijila Kennedy	3
8.	EEE	Dr.Rani Thottungal	4
9.	CSE	Dr.S.Thangasamy	2
10.	ME	Dr.B.K.Gridharan	1
Total			29

3.4.5 What is the stated policy of the College to check malpractices and misconduct in research?

- The RRC monitors regularly the malpractices and misconduct in the research process.

- Faculty members guiding the student research are advised to check the plagiarism using online tools during the research paper submission in reputed journals.

The online plagiarism checking tools are

- http://smallseotools.com/plagiarism-checker/
- http://plagiarisma.net/

3.4.6 Does the College promote interdisciplinary research? If yes, how many inter departmental / inter disciplinary research projects have been undertaken and mention the number of departments involved in such an endeavour.

Yes.

The Institution actively promotes the interdisciplinary research project. The details of the interdisciplinary projects are furnished below:

S. No.	Name of the Department	Name of the collaborated department	No.of interdisciplinary/ interdepartmental Projects
1.	BT	MECH, TXT	4
2.	E & I	TXT, MECH, BT	3
3.	FT	BT, TXT	2
4.	TXT	BT	2
5.	KCT BS	MECH, TIFAC CORE	1
TOTAL			**12**

3.4.7 Mention the research awards instituted by the College.

- A certificate of appreciation and cash award (in terms of provision of gift vouchers) is given to the faculty members for their research paper publication and attracting the grants from the funding agencies during Teacher's day celebrations.
- The Institution is also recognizing the research contribution of faculty members through the provision of best faculty award.
- Best student project award (Final year UG and PG students) is provided by the Institution during the farewell day award functions.

3.4.8 Provide details of:

Research awards received by the faculty

1. Dr. P.Ramalingam and Mr.D.R.Manimaran/BT won 3rd prize for presenting a

research paper in Bannari Amman Institute of Technology, Satyamangalam, during January 2016.

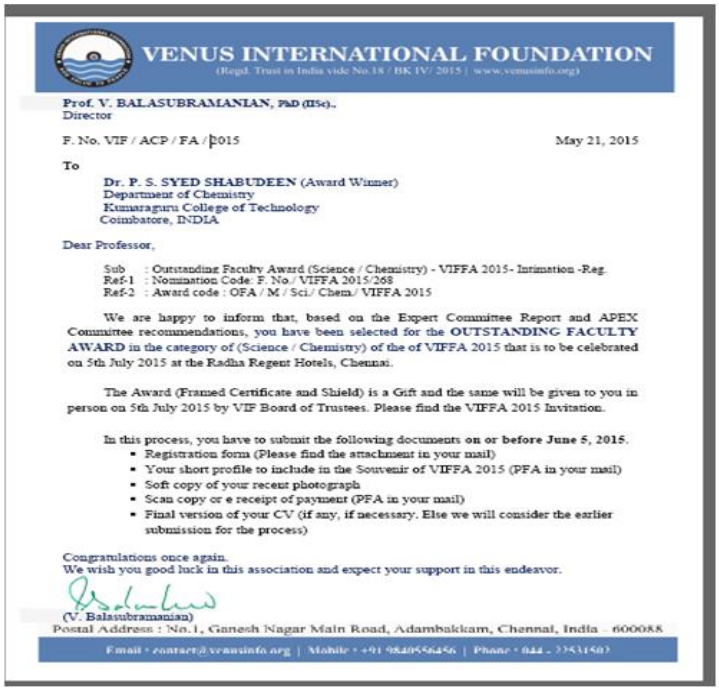
2. Ms. Sangeetha.S/MBA has received the best research paper award at the National Conference on Indian Business Management at Sri Ramakrishna Institute of Technology, Coimbatore in the year 2015.
3. Dr. P.Ramalingam/BT won 1st prize for presenting a research paper in SSN College of Engineering, Kalavakkam , Chennai– 603 110, during 2014.
4. Ms. Sang eetha.S/MBA has received the best research paper award at the International Conference on Financial inclusion- Multi perspective Institute of Technology & Management (ITM), Navi Mumbai in the year 2012.
5. Ms. Sangeetha.S /MBA has received the best research paper award at the National Seminar on "Emerging Paradigms in Management Research", Sri Ramakrishna Engineering College, Coimbatore in the year 2011.
6. Ms. Deepa/MBA. M has received the best research paper award at the International Conference on Intelligent Information system and Management In collaboration with Oakland University-USA, CSI Coimbatore Chapter and IETE Coimbatore Chapter at RVS College of Engineering and Technology in the year 2011.
7. Dr.M.Kirupa Priyadarshini/MBA has received the best research paper award at the International Conference at A Study on Conviction and perception towards Entrepreneurial Intention Amongst Management Students in the year 2011.
8. Dr.L.Latha/CSE won the Best paper presentation award for the paper entitled "A robust Person authentication system based on Score level fusion of left and right Irises and Retinal features', Proceedings of the International Conference and Exhibition on Biometrics Technology, Coimbatore, India, 02-04 September 2010.

Recognition received by the faculty from reputed professional bodies and agencies

1. Dr.L.Latha/CSE won the Second prize - "Best Ph.D. thesis award" by Computer Society of India in 2014.
2. Ms. S.N.Hemalatha/IT has attended a Summer Faculty Research Program, IIT Delhi from May to July 2014.
3. Dr.R.Baskar/BT, Dr.N.Saraswathy/BT and Dr. S.Sivamani/BT has received Indian Academy of Sciences (INSA) summer research fellowship, 2012.

3.4.9 State the incentives given to faculty for receiving state, national and international recognitions for research contributions.

- ❖ The faculty members who have received the state/ national/ international recognitions from the prominent organizations were awarded with a citation during the Teachers day celebration every year. Moreover, special on-duty is sanctioned to attend such kind of functions.
- ❖ The recognition of such faculty members is duly considered during promotions.
- ❖ Dr. P. S. Syed Shabudeen | Award Winner - VIFFA 2015 | Outstanding Faculty Award.(Nomination Code: F. No./ VIFFA 2015/268 | Certificate No.: FASN2015 – 268 | Awarded on 5th July, 2015).



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Prof. V. BALASUBRAMANIAN, PhD (IISc).,
Director

F. No. VIF / ACP / FA /2015 May 21, 2015

To

Dr. P. S. SYED SHABUDEEN (Award Winner)
Department of Chemistry
Kumaraguru College of Technology
Coimbatore, INDIA

Dear Professor,

Sub : Outstanding Faculty Award (Science / Chemistry) - VIFFA 2015- Intimation -Reg.
Ref-1 : Nomination Code: F. No./ VIFFA 2015/268
Ref-2 : Award code : OFA / M / Sci./ Chem./ VIFFA 2015

We are happy to inform that, based on the Expert Committee Report and APEX Committee recommendations, you have been selected for the **OUTSTANDING FACULTY AWARD** in the category of (Science / Chemistry) of the of VIFFA 2015 that is to be celebrated on 5th July 2015 at the Radha Regent Hotels, Chennai.

The Award (Framed Certificate and Shield) is a Gift and the same will be given to you in person on 5th July 2015 by VIF Board of Trustees. Please find the VIFFA 2015 Invitation.

In this process, you have to submit the following documents **on or before June 5, 2015.**

- Registration form (Please find the attachment in your mail)
- Your short profile to include in the Souvenir of VIFFA 2015 (PFA in your mail)
- Soft copy of your recent photograph
- Scan copy or e receipt of payment (PFA in your mail)
- Final version of your CV (if any, if necessary. Else we will consider the earlier submission for the process)

Congratulations once again.
We wish you good luck in this association and expect your support in this endeavor.

(V. Balasubramanian)
Postal Address : No.1, Ganesh Nagar Main Road, Adambakkam, Chennai, India - 600088
E-mail : contact@vfoundation.org | Mobile : +91 9840956456 | Phone : 044 - 22431450



SHORT TAKES

Prof honoured with award

Coimbatore: Prof Dr P.S.Syed Shabudeen, Professor Chemistry, Science and Humanities Department of Kumaraguru College of Technology (KCT) has been selected for the Outstanding Faculty Award in the category of Science, Chemistry) of the of VIFFA 2015. His selection has been based on the Expert Committee Report and APEX Committee recommendations and the award will be conferred to him on July 5 at the Radha Regent Hotels, Chennai.

Dr P.S. Syed Shabudeen

Dr. P. S. Syed Shabudeen | Award Winner - VIFFA 2015

3.5 Consultancy

3.5.1 What is the stated policy of the College for structured consultancy? List a few important consultancy services undertaken by the College.

College Policy for structured Consultancy

- ➢ The various Engineering, Science and Humanities departments set targets at the beginning of the year to undertake consultancies in their areas of expertise. The targets are presented in a meeting attended by heads of the departments, Coordinators and preside by the Principal.

- The departments are encouraged to undertake visits to relevant nearby industries and identify consultancy activities to be taken up by them.
- The activities are monitored in the HOD's meeting with Principal.
- The college has a revenue sharing practice by which faculty members undertaking consultancy, share the revenue earned as a result of the consultancy work. 40% of the revenue goes to the faculty depending on whether they use or do not use the college facilities for the purpose.

List of Consultancy services undertaken by college

S. No	Title of consultancy work	Department	Amount in Rs. Lakhs	Faculty Incharge	Year
1.	Vadalur Sudhha Sanmarga Nilayam Auditorium plan, design and detailed estimate.	Civil Engineering	2.40	Dr.J.Premalatha Dr.P.Eswaramoorthi	2011 - 2012
2.	Mix Design and Material Testing		3.43	Dr.P.Eswaramoorthi Mr.R.Elangovan Mrs. R. Manju	
3.	Waste water treatment plant for whole campus		1.00	Dr.G.L.Sathyamoorthi	
4.	Soil Consultancy		1.30	Mrs.K.Ramadevi	
5.	Campus survey		3.00	Dr.A.Gandhimathi Ms.N.S.Padmavathi	
6.	Soil consultancy for buildings in KCT Campus.		2.00	Mr.G.Manikandan	
7.	Development of response spectrum for Soil available in KCT Campus.		1.00	Mr.K.R.P.Satheeshkumar	
8.	Waste water treatment plant for whole campus		1.00	G.L.Sathyamoorthy	
9.	Mix design and Material testing		3.37	Mrs.K.Ramadevi Mrs. R. Manju Mr.K.R.P.Satheeshkumar	
10.	Design of activated sludge process treatment plant		1.45	Dr.G.L.Sathyamoorthy	
11.	Soil consultancy		1.17	Mr.G.Manikandan	
12.	Mix design and Material testing		2.08	Dr.J.Premalatha Mrs.K.Ramadevi	2013 -

S. No	Title of consultancy work	Department	Amount in Rs. Lakhs	Faculty Incharge	Year
				Mrs. R. Manju	2014
13.	Waste water treatment plant for whole campus		1.00	Dr.G.L.Sathyamoorthy	
14.	Maintenance of activated sludge process treatment plant		1.15	Dr.G.L.Sathyamoorthy	
15.	Soil consultancy		1.20	Mr.G.Manikandan	
16.	Stability check		2.20	Mr.S.Karthikeyan Mr.K.R.P.Satheeshkumar	
17.	Mix design and Material testing		1.93	Mrs.K.Ramadevi	2014 - 2015
18.	Soil consultancy		1.05	Mr.G.Manikandan	
19.	Testing and Consultancy services	Textile Technology	0.84	Dr.K.Thangamani	2010 – 2011
20.	Testing and Consultancy services	Textile Technology	0.67	Dr.K.Thangamani	2011 – 2012
21.	Testing and Consultancy services	Textile Technology	0.19	Dr.K.Thangamani	2012 – 2013
22.	Testing and Consultancy services	Textile Technology	0.33	Dr.K.Thangamani	2014 – 2015
23.	Improvement of Production and Quality in Coir Spinning machines.(Federation of Indian Coir Exporters Association, Certhala, Allepey, Kerala)	Textile Technology	2.00	Mr.S.Sunderesan and Dr.M.Dhinakaran	2014 – 2015
24.	Testing and Consultancy	Textile Technology	0.41	Dr.K.Thangamani	2015 – 2016
25.	Mobile Application for Hotel Reservation System for M/s Stayhappi	CSE	1.00	Dr.P.Devaki	2014 -15
26.	“CAM chain Noise Measurement” for L G	Mechatronics	0.35	Dr.S.A.Pasupathy	2014 -

S. No	Title of consultancy work	Department	Amount in Rs. Lakhs	Faculty Incharge	Year
	Balakrishnan& Bros Limited (LGB)				2015
27.	Recent advances in welding technology and quality productivity in high pressure vessel fabrication	Mechanical Engineering	0.025	Mr.P. Sadasivam	2012 -13
28.	Casting defects and quality improvement for higher productivity in foundry manufacturing	Mechanical Engineering	0.03	Dr. C. Velmurugan	2012 -13
29.	Total quality management in export garment manufacturing	Mechanical Engineering	0.05	Mr.P. Sadasivam	2012 -13
30.	Pollution control methods in foundry practices	Mechanical Engineering	0.03	Mr.P. Sadasivam	2012 -13
31.	TQM for export packaging cartons manufacturing	Mechanical Engineering	0.03	Mr.P. Sadasivam	2012 -13
32.	WIE Video Project IEEE	Information Technology	1.50	Dr.Ramalatha Marimuthu	2011 -12
33.	Design and automation of ECO friendly product machinery IEEE	Information Technology	Rs.0.15	Dr.Ramalatha Marimuthu	2012 -13
34.	Functional stimulation with robotic glove for fracture rehabitation KMCH, Coimbatore	Information Technology	Good Will Basis	Dr.Ramalatha Marimuthu	2013 -14
35.	A cognitive approach for stoke Rehabilitation by Acute Hand Monitoring KMCH,Coimbatore	Information Technology	Good Will Basis	Dr.Ramalatha Marimuthu	2014 -15
36.	Fetus health monitoring system (M/s. Pramura software Private Limited)	ECE	Good Will Basis	Mr. S. Karthik Mr. S. Dinesh	2015
37.	X-ray based non destructive testing (Sunsil Engineers Private Limited)	ECE -Auto	Good Will Basis	Mr. S. Dinesh Mr. R. Ramesh Kumar Dr. John -Alexis	2015
38.	Determination of Calorific Value of Bio Diesel and	Automobile	0.03	Prof. S. Sivakumar	2013 -14

S. No	Title of consultancy work	Department	Amount in Rs. Lakhs	Faculty Incharge	Year
	Diesel using Bomb Calorimeter				
39.	Magnetic Suspension in Two Wheeler	Automobile	0.013	Prof. L. Shanmugaraj	2013 -14
40.	Lithium Coated Catalytic Converter in Two Wheeler	Automobile	0.0089	Prof. L. Shanmugaraj	2013 -14
41.	Hydroxide Catalytic Converter in Two Wheeler	Automobile	0.009	Prof. L. Shanmugaraj	2013 -14
42.	Fuel Test of Neem Oil	Automobile	0.0049	Prof. S. Sivakumar	2014 -15
43.	Fuel Test of Orange Oil	Automobile	0.014	Prof. L. Shanmugaraj	2014 -15
44.	Fuel Test of Punai Oil & Cooking Oil	Automobile	0.0199	Prof. S. Sivakumar	2014 -15
45.	Fuel Test of Waste Cooking	Automobile	0.0099	Prof. S. Sivakumar	2014 -15
46.	Fuel Test of Waste Plastic Extract Biodiesel	Automobile	0.0049	Prof. S. Sivakumar	2014 -15
47.	Fuel Test of Animal Fat Extract Biodiesel	Automobile	0.0049	Prof. S. Sivakumar	2014 -15
48.	Fuel Test of Biodiesel	Automobile	0.0049	Prof. J. D. Andrew Pon Abraham	2014 -15
49.	Fuel Test of Castor Oil	Automobile	0.0049	Prof. S. Sivakumar	2014 -15
50.	Fuel Test RAW CNSL	Automobile	Goodwill	Prof. S. Sivakumar	2014 -15
51.	Fuel Test of Soya and Rubber seed oil and Biodiesel	Automobile	0.0248	Prof. S. Sivakumar	2014 -15
52.	Antibacterial Testing	Bio-Tech	0.020	Mr.P.Muthukumaran	2013 - 2014
53.	New product development, testing services and consultancy for industry & academic projects	Fashion Technology (KCT – TIFAC CORE)	0.91	Dr. J. Srinivasan, Dr. G. Ramakrishnan and Mr. K. Gopinath	2009 - 2010
54.	Design , Development and market forecasting for	Fashion Technology	0.50	Mrs.V.BhanuRekha-Asso.Professor,	2009 -

S. No	Title of consultancy work	Department	Amount in Rs. Lakhs	Faculty Incharge	Year
	handloom and printed sarees			Mr. S. Chandrakumar, Ms.A. Karuna	2010
55.	New product development, testing services and consultancy for industry & academic projects	Fashion Technology (KCT – TIFAC CORE)	1.72	Dr. J. Srinivasan, Dr. G. Ramakrishnan and Mr. K. Gopinath	2010 - 2011
56.	Standardization of Test Procedures of sanitary napkins		0.25	Dr. BhaarathiDhurai, Mrs.V.BhanuRekha	
57.	New product development, testing services and consultancy for industry & academic projects	Fashion Technology (KCT – TIFAC CORE)	4.08	Dr. J. Srinivasan, Dr. G. Ramakrishnan and Mr. K. Gopinath	2011 - 2012
58.	New product development, testing services and consultancy for industry & academic projects	Fashion Technology (KCT – TIFAC CORE)	3.50	Dr. J. Srinivasan, Dr. G. Ramakrishnan and Mr. K. Gopinath	2012 - 2013
59.	New product development, testing services and consultancy for industry & academic projects	Fashion Technology (KCT – TIFAC CORE)	4.01	Dr. J. Srinivasan, Dr. G. Ramakrishnan and Mr. K. Gopinath	2013 - 2014
60.	Vocational Fashion Technology and Computer Skill Training Programmes for Adolescent Girls	Fashion Technology	0.30	Dr. J. Srinivasan, and Dr. V. Krishnaveni	2013 - 2014
61.	New product development, testing services and consultancy for industry & academic projects	Fashion Technology (KCT – TIFAC CORE)	5.41	Dr. J. Srinivasan, Dr. G. Ramakrishnan and Mr. K. Gopinath	2014 - 2015

3.5.2 Does the College have College-industry cell? If yes, what is its scope and range of activities?

Yes. The College has a College Industry Institute Partnership Cell. (IIPC)

The individual departments get details from the placement cell regarding the industry consultancy needs. The information is discussed in the respective department meeting and the further interaction with industry is through individual departments.

The following are the objectives of IIPC.

1. Offering technical consultancy to the specific needs of the industries
2. Conducting energy audit at industries for saving energy
3. Offering courses on the latest developments in Engineering and Technology to practitioners
4. Carrying out development activities in collaboration with Industries and Government.
5. Arranging In-plant/Internship training to students and faculty members at industries
6. Arranging Industry and Public sector sponsored projects assignments for students.

Major Projects

1. 'CAM chain Noise Measurement for L G Balakrishnan & Bros Limited (LGB).
2. Vadalur Sudhha Sanmarga Nilayam Auditorium plan, design and detailed estimate.
3. Improvement of Production and Quality in Coir Spinning machines.(Federation of Indian Coir Exporters Association, Certhala, Allepey, Kerala)
4. Mobile Application for Hotel Reservation System for M/s Stayhappi.
5. X-ray based nondestructive testing (Sunsil Engineers Private Limited).
6. Fetus health monitoring system (M/s. Pramura software Private Limited).
7. Functional stimulation with robotic glove for fracture rehabitation KMCH, Coimbatore.
8. A cognitive approach for stoke Rehabilitation by Acute Hand Monitoring KMCH, Coimbatore.

3.5.3 What is the mode of publicizing the expertise of the College for consultancy services? Mention the departments from whom consultancy was sought.

1. Profiles and areas of expertise of faculty members are placed on the College website and brochures.
2. Interaction with Software companies, Core companies take place at the Departmental level with Senior Professors.
3. Brochures, E-Letters, New letters etc., are sent to industry to make aware of the activities taking place in the Department.

4. Periodic information sent to industries directly and through industry agencies like Confederation of Indian Industry(CII), Coimbatore District Small Industries Association (CODISSIA), Erode District Small Industries Association (EEDISSIA), Perundurai SIPCOT Association (PERSIA)

The Departments with consultancy**:**

1. Civil Engineering
2. Computer Science Engineering
3. Information Technology
4. Mechanical Engineering
5. Mechatronics
6. Electronics and Communication Engineering
7. Automobile Engineering
8. Bio-Technology
9. Fashion Technology
10. MBA
11. Textile Technology

3.5.4 How does the College encourage the faculty to utilize the expertise for consultancy services?

- The College provides infrastructure facilities, advanced laboratory equipment, software and staff for consultancy services.
- The departments are given targets to achieve revenue earning through consultancy, testing and training activities.
- Major activities implemented are published as technical papers. The activities are also listed in the website.
- Some of the major products developed are displayed in Fairs /Exhibition at CODISSIA Coimbatore.
- Innovative projects/ products are taken up for patent applications involving the faculty/ students.
- 40% of the revenue goes to the faculty for their consultancy work.

3.5.5 List the broad areas of consultancy services provided by the College and the revenue generated during the last four years.

S. No	Area of the service	2014-2015	2013-2014	2012-2013	2011-2012	2010-2011	2009-2010
		Amount in Rs. Lakhs					
1	Soil Consultancy	2.98	09.81	21.39	44.13	-	-
2	Structural Testing Laboratory						
3	Environmental Engineering laboratory						
4	Improvement of Production and Quality in Coir Spinning machines. (Federation of Indian Coir Exporters Association, Certhala, Allepey, Kerala.	-	2.00	-	-	-	-
5	Testing and Consultancy-CSE	1.0	-	-	-	-	-
6	Robotics and industrial automation	0.35	-	-	-	-	-
7	Fuel Testing	0.043	-	-	-	-	-
8	Suspension, emission and fuel testing	-	0.051	-	-	-	-
9	Sugar Analysis	-	0.05	0.10	0.05	-	-
10	Estimation of oil content in *Jatrophacurcas* seeds						
11	Consultancy (Bioconcrete development)						
12	New product development, testing services and consultancy for industry & academic projects (TIFAC CORE)	5.4	4.1	3.49	4.08	1.72	0.90
13	Vocational programs in Fashion Technology	0.75	0.30	-	-	0.25	0.50
14	Marketing, Human Resource, Finance and Operations	0.40	0.65	0.93	-	-	-

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the College sensitize the faculty and students on Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience.

The College sensitizes the faculty and students on Institutional Social responsibilities through NSS, NCC and other activities. College maintains separate account for NSS and NCC. One of the faculty members is designated as Programme Officer for NSS and NCC. The annual accounts are submitted to the university with utilization certificate.

National Service Scheme

The motto of our club is '*Not Me But You'.* This provides knowledge the spirit of democratic living upholding the contemplation necessary for selfless service. It induces apperception of empathizing with others point of view and also shows consideration for fellow human being. It underlines that the welfare of an individual is ultimately dependent on the welfare of the society, as a whole. Therefore it should be the aim of the NSS team to demonstrate this motto in its day-to-day activities.

The following activities were conducted by NSS during last four years.

S.No	Event	Venue and Date	Number of Volunteers
2013 - 2014			
2	Independence Day Celebration	KCT / 15-08-2013	50
3	Inaugurations	KCT / 19-08-2013	300
4	Pledge	KCT / 27-08-2013	50
5	Volunteering in TNPSC(group-4) exams	KCT / 29-08-2013	20
6	Visits on mentally retarded students	Kinnathukadavu / 01-09-2013	80
7	Attended 10th anniversary of 'Siruthuli'	Ukkadam / 06-09-2013	60
8	NSS Day Celebration	KCT / 24-09-2013	50
9	Gandhian Education to orphanage students	KCT / 05-10-2013	30
10	Save sight	Vadavalli / 10-10-2013	60
11	Blood awareness camp	KCT / 21-10-2013	30
12	Diabetes - blood screening and Sapling plantation Camp	Verapandi / 27-10-2013	100

13	Volunteering in TNPSC (group-2) exams	KCT / 01-12-2013	15
14	Seven days special Camp	Ganapathypalayam / 11-12-2013 to 17-12-2013	100
15	Sayonara aids	KCT / 23-01-2014	50
16	Voter's day rally	Gandhipuram /25-01-2014	70
17	'Paraolympics' sports meet	KCT / 05-02-2014	50
18	Special Workshop (PA College of Engineering and Technology)	Pollachi / 24-02-2014 to25-02-2014	04
19	Sapling plantation	Keeranatham / 26-02-2014	30
20	Women's day celebration & campus cleaning	Mettupalayam / 08-03-2014	65
21	Oldage Home visit	Mettupalayam / 08-03-2014	65
22	Herbal plantation	Kotagiri / 16-03-2014	25
23	Aids school visit	Ettimadai / 23-03-2014	75
24	Nest 2k14	Sona College of Technology, Salem / 29-03-2014	04
25	Election awareness rally	R.S. Puram / 02-04-2014	50
26	Bestowing artificial leg	Metupalayam / 08-04-2014	25
2012-2013			
1	Shelter for homeless urban poor people	Coimbatore Corporation. / 11-07-2012 to 13-07-2012	15.
2	Anti-ragging awareness Programme	KCT / 17-07-2012	105.
3	A visit to Government blind school	Government blind school Thondamuthur / 05-08-2012	93
4	Awareness program on Dengue fever	Idayarpalayam , Coimbatore / 12.08.2012	25
5	Workshop on Child laboratoryour Awareness	KCT /13-08-2012	180
6	Independence day Sports fest	Vilankurichi Govt. Primary school / 15-08-2012	50
7	Gass forest Museum - cleaning	Gass forest museum Coimbatore / 23-08-2012	30
8	First aid training Programme	KCT / 01-09-2012	250
9	Sapling plantation	Ooraikalpalayam , Coimbatore / 09-09-2012 Boopathy Nagar, Coimbatore / 24-02-2013	155
10	Alcohol and Smoking awareness rally	Coimbatore / 06-10-2012	80

11	7-day Special camp	Government primary school, Thottipalayam village, VellamadaiPanchayat / 06.12. 2012 to 12.12. 2012	100
12	Workshop on Celebration of life	KCT / 26-12-2012	180
13	Information lasik operation	KCT /13-03-2013	100
14	Women's day celebration	KCT / 08-03-2013	50
15	Declamation	KCT / 24-01-2013	20
16	National voters day-Intracollege events	KCT / 21-01-2013 to 25-01-2013	50
2011 – 2012			
1	Orphanage Visit	BharathaAnnaiIllam / 17.07.2011	100
2	Sapling Plantation	Greenathon'11- at Sennamanayackanpalayam/07.08.2011	92
3	Independence Day 'Sports Fest'	Govt. Elementary School-(Kallipalayam) / 15.08.2011	50
4	RRC Orientation Awareness Program	KCT / 20.08.2011	84
5	Blood Donation & Road Safety Awareness Campaign	KCT Campus & Saravanampatty / 29.08.2011	50
6	Blood Donation & Road Safety Awareness Campaign	Gandhipuram / 17.09.2011	40
7	NSS Day Celebration	KCT / 24.09.2011	145
8	Free Eye Treatment Camp	Ramanadhapuram -(In tie-up with Aravind Hospital) / 02.10.2011	85
9	Annual Special 7 days Camp	Ellappalayam Village / 01.12.11 to 07.12.2011	100
10	New Year Celebration Camp	Ellappalayam Village / 07.01.2012	50
11	Republic Day - Sports Meet	Telungupalayam School / 26.01.2012	75
12	Workshop-Fire Rescue & Safety Training	KCT / 01.02.2012	110
13	SAYONARA AIDS'12	KCT / 27.02.2012 to 03.03.2012	75
2010 -2011			
1	Interschool quiz competition	KCT / 31.07.2010	15
2	A visit to an orphanage	Bharatha Annai illam /01.08.2010 Saranalayam, NGGO Colony / 05.09.2010	75 55
3	Sapling plantation	Pannimadai / 08.08.2010	61

4	Independence day 'Sports fest'	Patchapalayam Govt. Middle School / 15.08.2010	50
5	Workshop on Aids awareness	KCT / 01.09.2010	180
6	Anti-drug awareness Programme	KCT / 27.09.2010	110
7	Free Eye camp	Athipalayam / 10.10.2010 Thottipalayam / 06.02.2011	80
8	7-day Special camp	Thelungupalayam Village / 02.12.2010 to 08.12.2010	100
9	New year Celebration	Telungupalayam / 01.01.2011	55
10	Kovaivizha	Rangamal school / 02.01.2011	35
11	Road safety week	Ramakrishna KalyanaMandapam / 04.01.2011	20
12	Republic day' Sports fest'	Atthipalayam / 26.01.2011	55
13	First aid training Programme	KCT / 05.03.2011	250

National Cadet Corps

NCC Army Wing was the first NCC Company created in KCT. KCT was the first private Institution to be provided with an NCC unit in Coimbatore. NCC aims to develop qualities such as Leadership, Self – Confidence, Patriotism, Courage and also improve the physical and mental fitness of the selected cadets. Moreover, NCC strives to produce responsible citizens of the Nation.

1). To develop qualities of character, courage, comradeship, discipline, leadership, secular outlook, spirit of adventure and sportsmanship and the ideals of selfless service among the young to make them useful citizen.

2). To create a human resource of organized trained and motivated youth to provide leadership in all walks of life including the Armed Forces and always be available for the service of the nation.

The following activities were conducted by NCC during last four years 2015 to 2009.

S.No	Activities	Impact on students experience	Year
2015-2016			
1	Republic day Parade at Kumaraguru College of Technology on 26.01.2016	Important of RD, Patriotism,	2016
2	Emergency Evacuation Programme was held at our college on 12.10.15. Chief Guest was Sub Collector	To evacuate the people who was struck inside the	2015

S.No	Activities	Impact on students experience	Year
		building at any emergency situation	
3	The NCC of Kumaraguru college of technology arranged a fire evacuation awareness program on 29/09/ 2015.	Awareness about Fire accident	2015
4	Independence Day celebration at Kumaraguru College of Technology on 15.08.2015	To Know about Contributions of leaders , Patriotism,	2015
5	International Yoga Day celebration at Government arts college, Coimbatore on 21.06.2015	To know about important of YOGA,	2015
2014-2015			
1	Republic day Parade at Kumaraguru College of Technology on 26.01.2015	Important of RD, Patriotism,	2015
2	Birthday celebration of Sardar Vallaboratoryhai Patel – 'National Unity day' Parade at Dr.Mahalingam VinyanBhavan, KCT on 31.10.2014	To Know about Contributions of Sardar Vallaboratoryhai Patel to Nation	2014
3	Swachh Bharat Abhiyan- Clean India Campaign from West gate, KCT to Chinnavedampatti on 30.09.2014	Awareness about cleanness in Public place	2014
4	Independence day celebration at Kumaraguru College of Technology on 15.08.2014	To Know about Contributions of leaders , Patriotism	2014
2013-2014			
1	Passing out Parade at Dr.Mahalingam VinyanBhavan, KCT on 14.04.2014	Patriotism	2014
2	Republic day Parade at Kumaraguru College of Technology on 26.01.2014	Important of RD, Patriotism,	2014
3	Rally against tobacco usage and cancer awareness at Saravanampatti on 20.10.2013	To know about Consequences of uses of tobacco	2013
4	Independence day celebration at Kumaraguru College of Technology on 15.08.2013	To Know about Contributions of leaders , Patriotism,	2013
5	Sapling plantation campaign at Police quarters, Coimbatore on 31.07.2013	To understand the uses of Tree plantation	2013

2012-2013			
1	Passing out parade at Dr.Mahalingam VinyanBhavan, KCT on 17.04.2013	Patriotism	2013
2	Republic day parade at Kumaraguru College of Technology on 26.01.2013	Important of RD, Patriotism,	2013
3	Corps Fest at Kumaraguru College of Technology, Coimbatore from 11.01.2013 to 20.01.2013	To know about in Indian Army and NCC	2013
4	Independence day Celebration at Kumaraguru College of Technology on 15.08.2012	To Know about Contributions of leaders , Patriotism,	2012
5	Rally against Dengue fever on 25.11.2012 from KCT to Saravanampatti village	Awareness about Dengue fever	2012
2011-2012			
1	Republic day parade at Kumaraguru College of Technology on 26.01.2012	Important of RD, Patriotism,	2012
2	New year Celebration at BhartaAnnaiIllam, Pannimadai on 01.01.2012	To create awareness about social service	2012
3	NCC day celebration at Government High School, Chinnavedampatti on 24.11.2011	To create awareness about social service	2011
4	Independence day celebration at Kumaraguru College of Technology on 15.08.2011	To Know about Contributions of leaders , Patriotism,	2011
5	Awareness programme on Cleanliness at Recreation hall – KCT Girls Hostel on 03.07.2011	To create awareness about social service	2011
2010-2011			
1	Republic day Parade at Kumaraguru College of Technology on 26.01.2011	Important of RD, Patriotism,	2011
2	Independence day celebration at Kumaraguru College of Technology on 15.08.2010	To Know about Contributions of leaders , Patriotism,	2010
2009-2010			
1	Republic Day Parade at Kumaraguru College of Technology on 26.01.2010	Important of RD, Patriotism,	2010
2	Independence Day Celebration at Kumaraguru College of Technology on 15.08.2009	To Know about Contributions of leaders , Patriotism,	2009

Namadhu Pangu

'Namadhu Pangu' is an integrated community development initiative of KCT is the brain child of the former Chairman Arutselvar. N. Mahalingam.The English equivalent of the coinage is **"***OUR CONTRIBUTION***".** It strives towards enhancing the quality of life of people dwelling in the neighboring villages surrounding KCT by effectively utilizing the talent and expertise of committed students and faculty members who are keen to bring a change in the lives of underprivileged. 'Namadhu Pangu' is a volunteer motivated program. Students can register as volunteers and participate / coordinate / lead various programs that are designed and executed within the campus and the neighborhood.

- June 2008 – Arutchelvar Dr.N. Mahalingam visits Shanthi Ashram and holds discussions with the Director and others.
- September 2008 – Launch of Namadhu Pangu
- 2009 – Scholarship for School Students and Health awareness campaigns
- 2010 – Two more themes – Women Empowerment and Environment protection Initiated
- 2012 – 'Namadhu Pangu' started working focusing on 6 Primary themes – Education, Health, Women Empowerment, Environment protection, Community Mobilization, and Promoting Gandhian Values
- Education development programs, Scholarship Program- Namadhu Pangu had organized distribution of scholarship to students of the four schools in and around Saravanampatti, on 13th August, to encourage the children on their excellence in their studies. 75 students were given school uniforms and 32 rain coats.
- Rural Learning Centre – Every Monday, Wednesday and Friday the Learning centre for school students conducts classes. It commenced on 7th August in Udayamapalayam village. The centre was started with an aim of enhancement of academic performance of school students.
- To create a more constructive learning environment, Namadhu Pangu donated 40 steel benches & 7 wooden benches to Namadhu Pangu Schools in the name of Arutchelvar Dr.N. Mahalingam Ayya. These are furniture actually not used by KCT, refurbished by NP and provided to schools.
- Based on the requirement of the school the four schools were provided with infrastructure facilities like paving the tiles, flooring the new kitchen, plastering and painting of the walls, providing drinking water facility etc.

- As part of enticing Academic excellence in schools, NP is working with teachers to enhance their capabilities and skills. On 4th July Faculty members Ms.Sathya and Ms Betty from CSE Department joined Namadhu Pangu and conducted basic computer training to the teachers of Chinnamettupalaym School.
- Since it was found that most of the children need protein supplementing, these students are provided with 200 ml of milk on every Friday. All the 620 students studying in the five Government schools are provided with milk once every week.
- Namadhu Pangu initiated the project of setting up kitchen gardens in all the project schools. Along with KCT student volunteers, the school students also volunteered. Apart from learning gardening, the students could also learn about plant science.
- "BAMBARAM 2014", was an initiative by Namadhu Pangu where KCT played host to over 500 children and together celebrated children's day. It was all about connecting, cherishing and celebrating with our little angels from our immediate surrounding homed in the nearby villages.
- Quilling is an art that can be used in designing various products like jewellery, handmade arts and bags etc. 15 women were trained in this art in Chinnamettupalayam Village.
- Namadhu Pangu strongly believes in respecting, empowering and celebrating womanhood.NP celebrates Women's Day every year with women from the neighbourhood. This year also NP partnered with ABT foods and organized Women's Day. NP organized interesting competitions for women on 9th March. The competitions included traditional medicines, rural and traditional games, local specific cultural events etc.

Highlights:

- Sarvo-Focolare award in Community development
- Bambaram 2014 – Children's Day celebration
- Teachers' Day competitions
- Women's Day celebration – Woman of the Year awards
- Rural Learning centre
- Strong Volunteer Base
- Women empowerment programmes



Namadhu Pangu Activities

Volunteer Blood Donation Club

The objective is to help people in and around Coimbatore round the clock for 365 days and we abide by the policy of any group anywhere any time.

- The club is functioning successfully over the years and contacts all the blood banks in the city.
- Above 450 units have been donated this year alone.

Gandhian Youth Movement (GYM)

Gandhian Youth Movement (GYM), a youth wing of Mahatma Gandhi Study Centre, was inaugurated with the objectives of inculcating Gandhian thoughts in younger minds.

- Mahatma Gandhi Study Centre and Gandhian youth movement adopted the Idikarai village in Coimbatore district to create awareness on anti-alcoholism.
- Members of Gandhian youth movement frequently visit schools for differently abled to teach them the Gandhian principles and thoughts on Independence Day and Republic Day.
- Mahatma Gandhi study centre and Gandhian youth movement organize ‘Gandhian week’ during October 1st week on account on Gandhi Jayanthi (2nd October) and ‘Sarvodaya week’ during January last week on account of ‘Sarvodaya Day’ (30th January).
- Mahatma Gandhi study centre and Gandhian youth movement initiated an awareness program on Eye donation.

Road safety Patrol (RSP)

RSP was initiated in KCT on 12th September, 2011 by Tamil Nadu police traffic wardens Coimbatore city. The aim of RSP is to create awareness about road accidents, safety regulations among students. As a part of this the RSPians arranged for intensive Road Safety week focused to create awareness among the young drivers. The following events were conducted to create awareness among the youngsters.

- Helmet Awareness
- Head light stickering
- Signal Check
- Blood bucket challenge
- Slogan writing
- Happy roads



Road Safety Patrol Activities

Rotaract Club

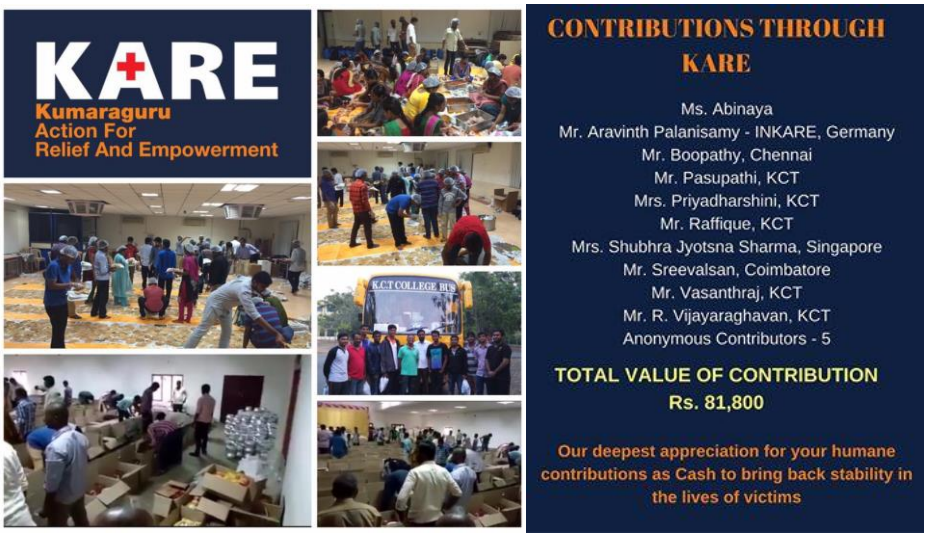
A youth club which is mainly focused on developing personal qualities and also service to mankind. The lists of activities are given below.

S.No	Activities	Impact on students experience	Year
1	Disaster management	Good	2013
2	First aid training	Good	2013
3	Fire Safety and training	Good	2014
4	Disaster management	Very good	2014
5	Visit of Orphanage	Good	2015
6	Medical Health Awareness	Good	2015

Kumaraguru Action for Relief Empowerment (KARE)

KARE is formulated to support flood affected people. It is proposed to work on a long term basis, though starting with immediate relief.

- The relief materials are distributed for around 820 households in the Mettukuppam ,Kottagam and Kollakudi villages in Kurinjipaditaluk dated 11.12.2015 at 6.00 pm.
- Distribution of survival kits to the badly affected areas in the Kurinjipaditaluk, Vadalur block by our team KARE.



KARE Activities

3.6.2 How does the College promote College-neighborhood network and student engagement, contributing to holistic development of students and sustained community development?

Faculty in-charge of NSS conducts programs for the benefit of rural population in the villages surrounding the College: ex: distribution of learning material, blood donation& medical camps, adult literacy to rural schools & donation of computers and other items..

NSS

Special awareness programs on Rain water harvesting, Environment cleanliness, use of Bio fertilizers etc., are conducted by the faculty of our college for the benefit of the nearby villages and agriculturists. Such programs promote friendship and brotherhood with the local community people which in turn contribute to the community development. During NSS

camps student volunteers do white wash in the schools, clean the neighborhood areas, plant tree saplings which improve the institute community interaction.

TBI-CIBI

TBI-CIBI functions with the motto of 'Concept to Commercialization' which involves the students in the product development with the entrepreneurs in the TBI-CIBI. These projects which students take up help them to gain the practical application of theoretical concepts and intricacies associated with the entrepreneurship. The students not only contribute to SME product development but are also enthused to get new ideas to start new ventures. The entrepreneurs are able to develop new products and processes at very low cost.

TIFAC-CORE

The Mission REACH aims at upgrading select Science and Engineering Colleges in the country as chain of world-class Centers Of Relevance & Excellence (CORE), to broaden the level of education and also to meet the scientific and technological manpower requirements of India in advanced areas promising to shown-up on the horizon in the years to come. Among 32 centres, the Centre Of Relevance & Excellence (CORE) established at KCT is the 20th CORE in the country under the Mission REACH, specializing in TEXTILE TECHNOLOGY & MACHINERY. KCT-TIFAC CORE is the first centre dedicated to the textile / apparel sector in India. While the Institution provides the site and some initial requirements, the government brings in resources adequate enough to overcome the sub-criticality and the user organizations bring in resources as well as relevance to the efforts. Substantial financial resources are pooled towards realizing excellence in focused areas of intense relevance to the Indian industry. CORE addresses post-graduate education, vocational training and R&D requirements of the industries.

LEED - Entrepreneurship Develeopment Cell

LEED is an initiative of the young and energetic engineering students of KCT. It aims at bringing out the entrepreneurial spirit among the students. To have an entrepreneurial spirit means to be resilient, risk taking and dedicated. A student start up 'Namma Cafe' has been started by the student entrepreneurs of KCT.

- The LEED cell organizes E-week every year in association with the National Entrepreneurship Network (NEN) to focus the attention of students on the wide entrepreneurial opportunities available in the current scenario.
- LEED also organizes Department level motivational lectures by inviting leading industrialists and entrepreneurs from various fields. Business simulation games and innovation contests like 'Jugad' have been conducted to bring out the bright and innovative ideas that could shape the future.
- During the academic year 2011-12, 150 student volunteers were selected from all the branches of Engineering (II year) and an Orientation Program was conducted by M/s National Entrepreneurship Network (NEN), Coimbatore Zone. Under the guidance of NEN, around 120 E-Leaders were selected to take part in the various EDC activities effectively on and off the campus.


These student-haunts in some college can

Kumaraguru College of Technology

LEED Activities

iQUBE

iQUBE is a Technology Incubation Centre at KCT that aims at people working on their ideas to see it as a product. iQUBE is specially meant for students to improve and excel their technical experience. It has an R & D laboratory where one can try experiment their idea with the available resources that are available in the laboratory. For outstanding Ideas and Projects, one would even get funded to complete a prototype model. It further aims at mentoring and training the interested ones with the necessary and updated technology.

Member Benefits

- Access iQube Resources (Workstations, Development Kits, Sensors, Softwares, Hi-Speed Internet, Gaming Consoles)
- Regular Guest Lectures by Experts (Technology, Innovation, Technopreneurship)
- Project Guidance, Mentoring and Recognition
- Working with Real Time Industrial Projects
- Industry Internship – based on your Performance and Skills
- Funding for Innovative Projects
- Weekend Workshops / Tech-Reviews
- Project Demos
- Support for Inter-College Technical Events
- Consulting for Core-Company Placements
- Industrial Visits / Tours
- Working with Ongoing Research Projects

Details of activities given below:

S. No	Year	Name of the Program	Activity	Impact created to the Society	Participants
1	July 14th 2011	Scholarship Distribution	Scholarship Distribution	104 School Children from class 1 to 8 of Chinnaved ampatti Panchayat	Student volunteers from KCT and KCTBS, Panchayat School children , School teachers ,members from Shanthi Ashram
2	August 5th 2011	Typhoid Vaccination	Typhoid Vaccination	100 children (Age 3-5 years) of Chinnaved ampatti Panchayat.	KCT Student volunteers , Panchayat School children ,School teachers ,members from Shanthi Ashram, Doctors and Sister's from MASONIC HOSPITALS

3	Sep.08th 2011	Green Brigade Activity	Educating about Green Revolution Use of Solar lights Distribution of Solar Lights	8 Non teaching staff of KCT	Director Namadhu Pangu, Coordinator,members, Student volunteers , Panchayat School children , School teachers , Members from Shanthi Ashram
4	Sep.14th 2011	Journey for unity	Visit to Church, mosque , Jain temple	Unity in Diversity	Student volunteers , Panchayat School children ,School teachers ,members from Shanthi Ashram
5	October 11th 2011	Low carbon practice	Talk on Low carbon practice	Awareness about Low carbon practices.	Director Namadhu Pangu, Coordinator, Members, Student Volunteers
6	18-09-2012	English , Computer science classes in Sarkkaar Saamakulam middle school	Games& a speech about Cleanliness and team work Class 8-Maths tutorial	Thought Mathematics to Class 8 student of SS kulam School	V.Ambrose Arvin, John Christophe
7	20th Oct 2012	Bala Shanti Fund for Child Development Food bank	Awareness about Small savings and contribution for the World Food bank	Effort taken to reduce food waste and motivated children to start small petty savings	Class 1 to 5 School students of Chinnavedampatti Panchayat, Student Volunteers from KCT and KCTBS along with the faculty team
8	05 October 2012, Friday	Gandhi Jayanthi	Inspirational Talk about leadership	Created and impact among the young minds about the qualities of good leadership	Student Volunteers from KCT and KCTBS with the Panchayat School children

9	20 October 2012, Saturday	Service at Shanthi Ashram	Temple Cleaning- Different temples @ Coimbatore	Great learning about the real service to community	members (67 students and 4 Faculty members)
10	on 6th Nov 2012	Global warming and its effects	Special Talk	Knowledge about Green House Effects, water scarcity and effects of Pollution from the industries	Class 1 to 5 School students of Chinnavedampatti Panchayat, Student Volunteers from KCT and KCTBS along with the faculty team
11	17th Novemb er 2012	Community engagement program Shramadhan'	cleaning the temple premises	Perur Shiva Temple	35 students and 3 faculty from KCT.BS
12	On 22nd Novemb er 2012	Enterpreneur ship Development	Workshop	Enhancing Confident, Orientation , Resource utilization, Creativity, Planning, and Perseveran ce	36 women volunteers from Shanthi Ashram and student volunteers from KCTBS with a faculty team
13	Novemb er 17, 2012	International day of Student Community	Awareness Programme on Hygiene	Awareness and training to keep personal hygiene	Fifteen girl children of age 5 to 15 years were invited from "ARAVANAIKKUM ANBU ILLAM" with the student volunteers of KCTBS
14	15/11/20 14	I am Here	Bring a social cause initiative and awareness	Expecting active participatio	60 Student volunteers of KCTBS

			To help the hopeless children and make a difference in their lives	n from the students of KCT.BS to make a difference in others life. Marking our path in the Swatch Bharat Mission of the Nation	
15	20/02/2014 to 26/02/2014	Community Engagement Project	Survey in 100 wards of Coimbatore City Municipal Corporation on: Clean drinking water Good drainage systems Proper disposal of waste Public health, safety & security issues	The ward members of City Municipal Corporation	180 students of KCTBS with 21 Faculty Team of KCTBS
16	February 23 – 28, 2015	Setting up a Bio Gas Plant, Pandalur, Ooty	Enhanced the way of living for the tribal people in Pandalur village by setting up a Bio-Gas plant. Renewable bio-gas energy was produced from cow dung within the digester	Renewable bio-gas energy	ShriGowtham.M SelvaKumar.E Jai Prakash.R Sumangala.V Kishorekumar.M.K

17	February 23 – 28, 2015	Setting up of Public Library, Dhevanurpudur , Pollachi	Setting up of a library for the village Devanurpudhur Donated 300 books to the library	Setting up of a library for the village Devanurpudhur	Vichitra.U Saravana Kumar.A Arun Prabakaran.P.S Pathmanaban.V Vigneshwaran.K Anitha.R Saravanan.M Vinusha Priyanka.P.J Dinesh kumar .S Prashanth.G
18	February 23 – 28, 2015	Eye Donation Campaign and enrollment	Formed a group under rotaract club "VIZIGHAL" Identified 756 eye donors from Coimbatore city	Identified 756 eye donors from Coimbatore city	Gowtham.K Prethivika.A Arrunvignesh.R Akashjaiswal.C Nagavikashnee.K Balasubramaniam.V.S Rajalakshmi .

The extension activities organized in the Information Technology department are categorized into serving five different communities.

- **Students & Engineers:** International conferences and Workshops are conducted to enhance their knowledge & learning skills.
- **Rural community nearby:** Surveys are conducted to assess the basic amenities and facilities available in the rural areas. Projects to enhance the quality of drinking water and to improve the livelihood of the people.
- **Women Community:** Career enhancement Workshop on "Returning Mothers" for women who take a break in their career and then wish to come back was conducted. Women entrepreneurships encouraged (for rural women) by providing free vocational training.
- **Society:** "Workshop on "Epics in IEEE" conducted to give visibility in pioneering Assistive Technology Projects and introducing the service learning curriculum among the Institutions in India.
- **People with special needs**: Technical projects developed in collaboration with Kovai Medical Centre Hospital for people with special needs. Mobile apps for blind have been developed and uploaded in Google play store.

Fashion Technology department conducted Workshops in imparting training in Embroidery skills in collaboration with Namadhu Pangu. Four of our students have been the resource persons for a two month long workshop and training was given to 25 rural women. The classes were conducted on Saturdays and Sundays and the students interacted with the villagers and understood their problems leading to holistic development of students and sustained community development. They have also given them inputs to start their own embroidery units for hand embroidery and aari embroidery.

Department of Computer Applications was conducted an Outreach Programme "E-Literacy Programme for House Wives and Senior Citizens". The aim of the programme was to impart basic level computer awareness on the usage of computers in daily lives. The content consisted of Computer basics, Word processing, E-mail, Social networking, E-Commerce and Smart Phone usage and applications. After attending the programme, the participants got a practical exposure and were trained to prepare their personnel/business letters, view information on internet, send mails, participate in social media activities, maintain accounts and enjoy the world of Information Technology.

Department of Textile Technology was conducted Technology based entrepreneurship development programme under DST-NIMAT project for women entrepreneurship development Programme during 2010.

Department of Textile Technology was conducted Technology based entrepreneurship development programme "Disposable textiles" for outside community sponsored by ELCOT in 2012.

3.6.3 How does the College promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

NSS

NSS program officer enrolls students from I year and carries them through various activities up to the IV year. Some of the NSS activities are given below

- Annual special camps at adopted villages: Every year the NSS unit of KCT conducts special camps in the villages/ neighborhood schools to improve the infrastructure of schools such as painting/colour washing of walls, replacement of benches and black boards are carried out. Special lectures are given by the faculty on the various topics base on environment, public health, sanitation, self development, drip irrigation etc.

Members of our college management team, the principal and professors actively participate in the camp and interact with the community.

- Annul one day symposium with themes like 'Save wild life & forest' "technology transfer for rural development"
- Blood Donation Camp & Eye checkup Camps associated with hospitals and blood banks
- Camps / functions for celebrating NSS Day, 150th birth anniversary of Swamy Vivekanandha, National Voluntary Blood Donation Day





NSS Activies

NCC

NCC program officer enrolls students from I year and carries them through various activities up to the IV year.

The institute encourages the students and faculty to take part in the NCC activities. The NCC unit of KCT assists local police in local body elections, and helps the local temple to improve the housekeeping and sanitation. NCC unit of KCT is conducting an average of 10 programme per year. Some of the NCC activities to quote are:

- Annual Training camps
- Rain Water Harvest rally
- Blood Donation Camp
- Trekking & Social service camp
- 'B' and 'C' Certificate Examination
- Awareness Rallies
- Village School Adoption
- NCC Day, UN International Day & Environmental Day celebrations



NCC Activities

YRC

The youth Red Cross is one of the avenues available to the students to be pursued under personality development program. The activities related with YRC include collecting, conducting medical camps to village people, literary campaigns, training on first aid,fire safety and rescue, disaster management and tracing. We created an awareness on the care of their own health and of others through a 2 days first aid training program and equipped the students with the knowledge about Disaster management.YRC program officer enrolls students from I year and carries them through various activities up to the IV year. Few events listed below.

S.No	Activities	Impact on students experience	Year
1	Disaster Management Training Programme conducted by IRC, Coimbatore.	Good	2014
2	Thalir (Girl children) Orphanage Visit	Good	2014
3	YRC coordinator accompanied with 3 students Attended the District level “Disaster Management and First Aid” three Days Training Programme.	Good	2014
4	Rs. 0.25 Lakhs collected as donation by YRC and this amount of Donation handed over to the Thalir Orphanage through Indian Red cross Society.	Very good	2015

Details of the events conducted in last three years:

- No. of Eye camps held - 05
- No. of Guest lecturers conducted - 07
- No. of units of blood donated - 652
- No. of Trees planted - 1150
- No. of Orphanage visits - 06
- No. of Awareness Campaigns - 09
- Skill Development Programmes for School students - 07
- Skill Development Programmes for College students (Inter and Intra) - 03
- A special camp of 7 days duration was conducted from 06.12.2012 to 12.12.2012 at Thottipalayam, Coimbatore.
- A Special camp of 7 days duration was conducted from 11.12.2013 to 17.12.2013 at Ellappalayam, Coimbatore.
- A sum of Rs.35,000/- worth materials were donated to Orphanages, school students and HIV affected children at Ettimadai, Coimbatore.
- A sum of Rs.15,000- worth materials were donated to Schools at Ganapathypalayam Coimbatore.



Tree Plantation and School Cleaning Activities

Swachh Bharat Abhiyan

Clean India Mission and abbreviated as SBA or SBM for "Swachh Bharat Mission" is a national campaign by the Government of India, covering 4,041 statutory cities and towns, to clean the streets, roads and infrastructure of the country. The campaign was officially launched on 2 October 2014 at Rajghat, New Delhi, where Prime Minister Narendra Modi himself cleaned the road. It was performed in remembrance of Mahatma Gandhi's words. It is India's biggest ever cleanliness drive and 3 million government employees and school and college students of India participated in this event.We the KCT NCC/NSS VOULNTEERS also participated in the National Mission by implementing the program at local Chinavedampatty village area and cleaned the village .



Swachh Bharat Abhiyan Activities

- Coimbatore Corporation, NGO and companies will join hands with KCT Civil Engineering students in Coimbatore to launch ‘Construct-Athon’ to speed up Swachh Bharat toilet construction. It is planned to involve 100 Civil Engineering Students from KCT and the toilet construction as per the specifications are going to be constructed.
- My City Clean City team and KCTians "Spotfixed" the area near Brookefields on 28th June 2014 Morning from 7am to 12 noon. The area was cleaned and the walls were painted and posted with powerful messages. The event was organised and volunteered by My City Clean City team, KCT NSS team and were supported by the Coimbatore Corporation.
- Save a Tiger Marathon organized by Coimbatore Round Table Club on 21st Feb2016 at Fire Bird Institute of Management, Chettipalayam, Cbe and KCT has actively participated.

- The Anna University Paralympics Athletic Meet for Men & Women held on 27.02.16 at our college ground.



Paralympics Athletic Meet

- Topographical Survey will be conducted using Total Station &Topographical Map of the Hamilton Police Club Area will be prepared and submitted to the authorities concern by the Civil Department of Kumaraguru College Technology, Coimbatore, as one of the part of documentation works before modifying the building as per new proposal.
- An Outreach Programme "E- Literacy Programme for House Wives and Senior Citizens" was conducted by department of Computer Applications. The aim of the programme was to impart basic level computer awareness on the usage of computers in daily lives. The content consisted of Computer basics, Word processing, E-mail, Social networking, E-Commerce and Smart Phone usage and applications. After attending the programme, the participants got a practical exposure and were trained to prepare their personnel/business letters, view information on internet, send mails, participate in social media activities, maintain accounts and enjoy the world of Information Technology.

3.6.4 Give details on social surveys, research or extension work (if any) undertaken by the College to ensure social justice and empower the under-privileged and most vulnerable sections of society?

S.No	Social surveys, research or extension work	Department	Year
1	DST-TEDP NIMAT Project - Women entrepreneur ship development programme on sanitary napkin manufacturing	Textile Technology	2010
2	RuTAG-Project on The fabrication of semiautomatic	Textile Technology	2009

S.No	Social surveys, research or extension work	Department	Year
	disposable diaper manufacturing machine		
3	RuTAG-Project on Standardization of Test procedures for sanitary napkin	Textile Technology	2009
4	RuTAG-Project on Development of quality control standards for fastness properties of natural dyes	Textile Technology	2009
5	RuTAG-Project on Development of cost effective herbal treated disposable baby diapers	Textile Technology	2010
7	WIE Video Project	IT	2011-12
8	Design and automation of ECO friendly product machinery	IT	2012-13
9	Intelligent device for ankle foot orthosis	IT	2013-14
10	Functional stimulation with robotic glove for fracture rehabitation	IT	2013-14
11	A cognitive approach for stoke Rehabilitation by Acute Hand Monitoring	IT	2014-15
12	SS12-Project Competition –Mobile Apps for socially Disabled	IT	2013-14
13	Automobile Vehicle Population Survey, Accident Survey, Pollution Impact Survey	Automobile	2011-15
14	Vocational Fashion Technology and Computer Skill Training Programmes for Adolescent Girls	FT	2014-2015
15	Vocational Aari Embroidery Skill Training Programme for Adolescent Girls	FT	2014-2015
16	Vocational Fashion Technology and Computer Skill Training Programmes for Adolescent Girls	FT	2013-2014
17	NamadhuPangu presentation to 3 representatives from Michigan State university.	MBA	2011
18	Scholarship Distribution for 104 ChinnavedampattiPanchayat School Children	MBA	2011
19	Coimbatore Peace festival preliminary meeting held @ Masonic Hospitals.	MBA	2011
20	Typhoid Vaccination to 200 Panchayat Children	MBA	2011
21	Green Brigade Activity	MBA	2011
22	Outreach programme - “e- literacy programme - ii for house wives and senior citizens”	MCA	2015
23	Entrepreneurship Development training program for thirty SHG Women Entrepreneurs of Shanthi Ashram, as part of the centre’s outreach activity.	CHE	2015
24	A major CSR Initiative "Project Delight Your Passenger (DYP)" - Training Program for 120 Ground Staff, was done for Airport authorities of	HR center	2014

S.No	Social surveys, research or extension work	Department	Year
	India Ltd.		
25	Mass survey conducted for the Coimbatore Corporation to assess the infrastructural facilities and the services provided by the Coimbatore Corporation.	MBA	2013
26	Soft Skill Training program for 894 employees of India Post to enhance the quality of customer service.	KCT Business School	2014
27	The Faculty and students conducted "Stress Management Program" for the police personnel of Coimbatore city.	KCT Business School	2013
28	Workshop for women self Help Group in collaboration with Tamil Nadu Corporation for Development of Women Ltd Coimbatore (30 programmes conducted).	KCT Business School	2013
29	Visit to rural village (Kembanackienpalayam) to survey their average income, amenities and facilities. Based on that a skill development workshop conducted for school students there.	IT	2012-2013
30	Eco friendly product making workshop for women conducted (Terracotta jewel making, coir pith and banana fibre product making)	IT	2012-2013
31	Survey conducted on quality of drinking water in rural village, Kembanackienpalayam. Project proposed for providing solar purified drinking water.	IT	2015-2016

Social Surveys

KCT Business School conducts social surveys to identify the weaker sections of the community that needs targeted help/support. The Community Connect is a part of the MBA Curriculum and the students actively involve themselves in planning and executing the Community Engagement and Social Immersion Projects and Community Outreach services. A few of the key college-student-community engagements are:

Community Engagement Project: Survey on Infrastructural Facilities in Coimbatore Corporation Wards: February 2014:

The main motive of this project was to find out people's satisfaction towards the facilities provided by the Coimbatore Corporation in their locality and use this input for future town

planning exercise. Data was collected through structured questionnaire. The questionnaire focused on the drinking water facility services, Drainage, Rainwater Harvesting, Road Conditions, Corporation Schools, Solid Waste Management, and Environment. 180 MBA students were involved to collect the data from 13775 respondents residing in 100 wards. The data were collated and a report was prepared and submitted to the Coimbatore Corporation. The survey concluded that all the wards had lots of facilities, few were lacking in few facilities like street lights, mosquito problem, public transport including roads, etc. Overall the facilities provided by the Corporation were rated at above acceptable level and the endeavor should be to reach Good level through better planning and implementation.

Community Engagement Project: "You can make a difference" : February 2015:

The project was focused on 4 different impact areas on the society: Environment, Education, Health and Economy. NGO partners for the community project were Centre for Tribal and Rural Development Trust, Save the Globe, VIDIYAL, G 18, Vasan Eye Care, CREED, Friends Tailor, Rural People Welfare trust, Indian Red Cross Society, Sankara Eye Foundation, Good Shepherd Heath Education centre, A Ray of Hope (AROH), Siruthuli, NIA Trust, Rotary Club (North), Hill People Development Organization and ICTC Counsellor Corporation Hospital. The outcome of the Project in terms of environment: Created awareness and helped the identified communities for waste management and a cleaner environment. Economic Impact: Enhanced the economic capability of the identified communities, through awareness, education, skill building, connecting with partners and managing personal finances. Education: To better the knowledge, skill, capabilities of the students and teachers and also support in infrastructure development for identified schools. Health: Provided Health awareness and checkups and also build a support system for identified communities.

Social Immersion Project 2015-16:

181 MBA students grouped in 30 teams undertook 30 socially relevant and impactful projects partnering with NGOs. Through these social projects, the students were groomed to become better citizens by engaging in community development, knowing and finding solutions for certain problems in the community. The beneficiaries of the project were the rural/under-privileged communities across different districts in Tamilnadu. The social projects include

installing systems of Rain Water Harvesting, Solid Waste Management, Education to tribal children & orphaned children, Women Empowerment, Helping homeless orphaned children, Enhancement program for hearing impaired, Plastic free Kovai, Hygiene for girls, Cultivating the knowledge of Bio Manure, Behavioural training for school children , Empowerment of women through Mushroom cultivation, No food waste, Smart city portal, Accelerate sanitation coverage in rural areas, Organic farming system, Waste management, Defeat Dengue, Pathai- Life skill education and Corruption free India. The NGOs associated were Siruthuli, Rural People Welfare Trust, ARC Foundation, Douglas Memorial Children's Home, Sri Annai Karangal, Coodu Organization, Don-Bosco Anbu Illam, Family Care, Agni Foundation, Anbu Charities, Village Knowledge Centre, Vidial Charitable Trust, Imayam Welfare Association, Happy Hearts, No Food Waste, Spice Foundation, Lead India 2020, G18, Alai Foundation , 5th Pillar and Families for Children.

Fashion Technology department has been working with the Government Of India – Integrated Child Development Service Scheme (ICDS) programs right from 2008 till date. Empowerment has been given by imparting skills and training in embroidery, garment construction, computer skills and other arts to help them to become entrepreneurs or work in the apparel industry; placements have also been given to a few of them. Most of the participants are from the nearby locality and are also from the low income group.

Namadhu Pangu

- Recording and monitoring health statistics of school children.
- Identifying children of need and providing support.
- NP provides 200 ml milk every Friday to all 600 students studying in the five schools in the project area.
- Immunization: all 600 children receive timely immunization and the data is systematically recorded.
- Needy children get protein supplements like dhal powder and others.
- Awareness and orientation is conducted for the mothers of school children on **Nutrition and health**.

3.6.5 Give details of awards / recognition received by the College for extension activities /community development work.

S.No	Awards / Recognition/Activity	Department	Year
1	Cameron best project award: Automatic flushing system in locomotive	Mechanical Engineering	2014
2	MGA Leadership award	IT	2013
3	ABI Change Agent Award	IT	2013
4	Spring 2014 Systers Pass –It-On Award	IT	2014
5	Infosys- Bronze Partnership Award	IT	2014
6	Indian Association for the blind has awarded outstanding service award	MBA	2013
7	Airport Authority of India, Coimbatore International Airport has **recognized** KCT Business School for designing and delivering behavioral and soft skill training to AAI employees, ground staff, passenger service providers and security personnel.	MBA	2014
8	Postal Department has **recognized** KCT Business School for providing soft skill training to his employees.	MBA	2014-2015
9	KCT has been awarded the Rolling Trophy for having the Best Road Safety Patrol Team (RSP) among all the Colleges in Coimbatore.	RSP	2014





Road Safety Awards

3.6.6 Reflecting on objectives and expected outcomes of the extension activities organized by the College, comment on how they complement students' academic learning experience and specify the values and skills inculcated?

Activities are conducted for the students to inculcate Knowledge, Skill and Attitude. For Knowledge and Skill, Technical workshops and seminars are conducted. For building positive attitude outreach activities & real world interaction compliment academic learning experience.

- To increase Entrepreneurship for Rural women - Workshop on Terracotta jewelry making - 2012-2013
- To create awareness and usage of Eco friendly products-Design and automation of ECO friendly product machinery-2012-2013
- Students are exposed to the real time problems faced by society and they develop the drive to work towards solutions to societal problems, take up research activities that could solve consumer problems and also build a moral responsibility for the development and safety of the society and environment.
- Students better understand their own competency, leading to more self-confidence and a can-do attitude that can spread to their academic pursuits and work, by involving in socially responsible activities. Students learn to tackle tough problems and challenges in the community services their by learning problem solving skills and enjoy the satisfaction of overcoming hurdles.
- It opens students to a wealth of networking opportunities, allowing them to build new relationships within their community as they contribute, students can meet new people, work with new organizations, and strengthen their ties to the community. It allows students to take what they've learned and apply it beyond the classroom. This offers opportunity for enrichment and a great way for them to see how concepts they've learned work in the real world. Taking part in Socially relevant projects teaches students valuable skills like ability to follow instructions, teamwork, problem solving, networking etc..

3.6.7 How does the College ensure the involvement of the community in its outreach activities and contribute to the community development? Detail the initiatives of the College which have encouraged community participation in its activities.

NSS, YRC, Rotaract, RSP, KARE, Namadhu Pangu, VBC of KCT regularly conduct special camps in the villages/schools in the neighborhood in order to improve the infrastructure of schools such as painting / colour washing of walls, replacement of benches and black boards. Special lectures are given by the faculty on the various topics like

environment, public health, sanitation, self development, drip irrigation etc., to create awareness among the people. College organizes different programme for NGOs, police professional etc., to upgrade their professional and managerial skills. The college also works closely with NGOs in implementing social immersion projects.

Details of Programme:

Sl. No	Name of the Event	Date	Outcomes
1.	EPICS –in- IEEE	20.04.2015 - 21.04.2015	Gave visibility in pioneering Assistive Technology Projects and introducing the service Learning curriculum among the Institutions in India.
2.	Workshop on "After the Break – Returning Mothers"	04.12.2014	Career enhancement for women who take a break in their career and then wish to come back.

3.6.8 Does the College have a mechanism to track the students' involvement in various social movements / activities which promote citizenship roles?

Yes, The College has mechanisms.

i) Various program officers and their team keep track of student involvements.

ii) Each class has mentors for every 20 students who closely interact with them academic and personal problems and involvements. They provide continuous counseling and they are aware of the students involvement.

iii) Induction program and Graduation Day provide a forum for interaction among the students.

iv) Alumni of the KCT are involved in various social movement activities to promote citizenship role.

3.6.9 Give details on the constructive relationships (if any) with other Institutions in the nearby locality in working on various outreach and extension activities.

1. Blood donation by our students and staff has saved many lives.
2. Sapling plantation in nearby areas and villages.
3. Assisting local industries in Testing.
4. The college assists industries to solve the problems on pollution, energy conservation, production management etc. That helps the industries to perform better.
5. College in liaison with CODISSIA, CII, etc., organizes various outreach and extension activities.

6. The Technology Business Incubator (TBI) CIBI helping entrepreneurs to develop and commercialize their products.
7. Fashion Technology Department working with the Government of India – Integrated Child Development Service Scheme (ICDS) programs right from 2008 till date. Empowerment has been given by imparting skills and training in embroidery, garment construction, computer skills and other arts to help them to become entrepreneurs or work in the apparel industry; placements have also been given to a few of them. Most of the participants are from the nearby locality and are also from the low income group.
8. KCT involves with NGOs in the nearby locality and the names of few NGOs with whom we are associated are:

1. Shanti Ashram
2. Rural People Welfare Trust
3. Siruthuli
4. ARC Foundation
5. Douglas Memorial Children's Home
6. Sri Anaikarangal
7. Don Bosco AnbuIllam
8. Family care
9. Agni Foundation
10. Anbu Charities
11. Vidial Charitable trust
12. Immayam welfare association
13. Happy Hearts
14. Spice Foundation
15. Lead India 2020
16. G 18
17. Alai foundation
18. 5th Pillar

9. MS Office Training and Basics of Computer Hardware and Networking was conducted for TNEB District Office, TANGEDCO Staff Members Coimbatore by CSE department from 25.07.2014 to 27.07.2014 and 06.05.2014 to 08.05.2014.

3.6.10 Give details of awards received by the Institution for extension activities and/contributions to the social/community development during the last four years.

S.No	Awards/ Recognitions /Activity	Department	Year
1	Indian association for the blind has awarded outstanding service award	MBA	2013
2	Airport Authority of India, Coimbatore International Airport has recognized	MBA	2014

	KCT BS for designing and delivering behavioral and soft skill training to AAI employees, ground staff, passenger service providers and security personnel.		
3	Postal Department has recognized KCT Business School for providing soft skill training to his employees.	MBA	2014 & 2015
4	MGA Leadership	IT	2012-2013
5	ABI Change Agent Award	IT	2012-2013
6	Spring 2014 Systers Pass –It-On Award	IT	2014-2015
7	IEEE activities best award from IEEE madras section	Department of Electrical and Electronics Engineering.	2009-2010 2010 -2011

3.7 Collaboration

3.7.1 How has the College's collaboration with other agencies impacted the visibility, identity and diversity of activities on the campus? To what extent has the College benefited academically and financially because of collaborations?

The Institute has interactions with Academic Institutions, Industries, Employer, Government bodies regulatory authorities, Certification bodies, consultants, Professional bodies, for enhancing teaching-learning, administration, research, training and placement and infrastructure maintenance.

Sl. No.	Collaborating agency	Benefit(s) to the Institution	Academic/ Financial
1	Professors from Anna University, IIT and International Universities etc	Inputs for refinement of the curriculum and syllabi	Academic
2	National Board of Accreditation	Implementation of Outcome based education, Good Governance and Administration	Academic
3	Student chapters of Professional bodies: IEEE, IEI, IETE, ISTE	Conducting Seminars, Workshops, Symposiums to hone the Professional and organizing skills of the students	Academic & Financial
4	Industry Associations / Trade Bodies and Nearby Industries	Internships and Industry visits to the students, development of syllabi, Guest lectures, Project exhibitions	Academic & Financial

Sl. No.	Collaborating agency	Benefit(s) to the Institution	Academic/ Financial
5	DST (NSTEDB)	Entrepreneurship Development Programme on Napkin Manufacturing	Academic & Financial
7	DST	Technology Business Incubator CIBI / TIFAC CORE	Academic & Financial
8	DBT	Funded project Bio-Tech and Textiles on Banana Peel extracts and its application in Medical Textiles	Academic & Financial
9	AICTE	Faculty Development Programmes on Technical Textiles,Research projects(RPS) and MODROBS	Academic & Financial
10	RuTAG	Investigation of the suitability of clay/ceramic material for use inside the microwave oven	Academic & Financial
11	Institute of Engineers	National level seminar on Technical Textiles	Academic & Financial
12	DRDO	FPGA Based Single Chip Implementation of AES (RIJNDAEL ALGORITHM) Encryption and Decryption with Error Correction	Academic & Financial
13	ISRO	Investigation of the suitability of clay/ ceramic material for use inside the microwave oven	Academic & Financial
14	CSIR	Various National Conferences organized by CSIR funding	Academic & Financial
15	EDI	Entrepreneurship Awareness Camp (EAC)	Academic & Financial
16	TUV	Implementation and Maintenance of Quality Management System in Academic and Administration through ISO 9000 Certification	Academic
17	NGO-Mother Earth	Participated and presented a paper at the Global Fibre Forum, an international symposium	Academic
18	Lectra- Assyst Bulmer-Industry	Opening of centers of excellence Lectra Apparel CAD Center/ Excellence for Virtual Garmenting	Academic
19	TBI-CIBI	TBI-CIBI functions with the motto of Concept to Commercialization which involves the students in the product development with the entrepreneurs in the TBI-CIBI.	Academic & Financial

Sl. No.	Collaborating agency	Benefit(s) to the Institution	Academic/ Financial
20	TIFAC CORE	Testing, Product Development, Consultancy services	Academic & Financial

Our collaboration with - Industry (Industry mentors, knowledge sharing through Guest Lectures and Adjunct faculty, Curriculum development, Faculty Recruitment, Executive Development Programs, Events Sponsorship, Seminars and Workshops ,Consultancy etc.) NGO (Social Immersion Projects) Alumni (periodical meetings, experience sharing, recruitments, curriculum designing , placements etc) Academic (Member of Board of Studies, Academic Council, Faculty development programs, Visiting Academician from Foreign Universities, etc) and Government Agencies (training programs for Coimbatore Police, Postal Department, Airport Authority, Corporation etc) - has helped to undertake diverse academic, research, training and consultancy activities. The collaboration has also helped us in enhancing branding of the department. The support of Press and Media has enabled to enhance visibility and of the department.

3.7.2 Mention specific examples of, how these linkages promote

1. Curriculum development

- MoU signed with various National and International Institutes and industries helped the college to upgrade the teaching methodology of the faculty members and improve the teaching learning process.
- ISO 9000 certification helps us in teaching learning process in an efficient way and properly maintains the documents regarding Academics as well as Administration.
- Experts from Industry are on Boards of Studies of all Departments and the Academic Council. They provide inputs as for the current requirements for employment of students. The curriculum is designed to fulfill these requirements of the industry.
- Operation of various students associations and chapters helps to identify various resource persons to address the students so that the gaps between the curriculum and industry expectations are addressed to a large extent.

2. Internship, On-the-job training

Students who are interested in industrial training undergo internship during summer and winter vacation.

List of Companies:

S.No	Name
1.	Athena Health Technologies
2.	Robert Bosch
3.	Odessa Technologies
4.	Amazon
5.	Wipro
6.	Cognizant Technology Solutions
7.	BODHI, Bangalore
8.	Payoda Technologies
9.	Infosys
10.	Accenture
11.	Soliton Technologies
12.	GR Systems
13.	Unmetric
14.	Tech mahindra
15.	Oracle
16.	L&T
17.	Cameron
18.	Ashok leyland
19.	LMW
20.	TTK Services
21.	HCL
22.	Kambaa INC
23.	Purple Pro Infotech
24.	NithraEdu Solutions India Pvt.Ltd
25.	Software Tech
26.	Multicore Ware
27.	Glorieux Info system
28.	Criar Solutions
29.	Advanced clothing concepts
30.	Coats India
31.	SRF limited
32.	Royal Classic Polo
33.	Cheslind Textiles
34.	RSJ Inspection Pvt Ltd
35.	Eastman Exports
36.	Akshara Apparels
37.	Jockey

3. Faculty exchange and development

- From 2007 to 2015 the faculty members of Kumaraguru College of Technology attended 805 Conferences at National and International levels.
- Faculty members participated in 1240 Workshops and Seminars during the above years.
- KCT faculty members participated in 504 FDP's to update their knowledge and skills

List of faculty members who gone for PDF and Research Fellowship:

Sl.No	Name of the Faculty	Type of development	University
1.	Dr. Raghav Menon	Post Doctoral Fellowship	Stellenbosch University, South Africa
2.	Mr. Kumaresan	Research Fellowship for 3 Months	IIT Delhi

38. Research, Publication

Faculty members and students interact with experts from defense laboratorys, research centers and other corporate such as synopsis to carry out research work. The results of research culminate in publications. Such collaboration has set in a research atmosphere in the College, encouraging junior faculty members and students to take up research. Many faculty members publish technical papers in Journals and Conferences.

39. Consultancy, Extension

Consultancy in the form of testing, software development is done continuously by various departments of the college.

Consultancy:

- Faculty members are encouraged to carry out consultancy services / Research projects & Corporate training at various companies & Government bodies.
- Some of the areas where Consultancy Services were undertaken by us are: Visioning Exercise, Skill Mapping and Training Manual Development, Market research to understand the business potential for new business, Market Research to estimate the market potential, a market survey for products and stores analysis, Market Potential study and Performance Management.
- Technology Business Incubator CIBI of the College attracts potential entrepreneurs to venture into new businesses.

Extension:

- Extension activities like conducting socially relevant programmes, marathons, road shows etc. are conducted with the help of various clubs and cells in the college.
- Collaboration with various NGO's facilitated extension works in remote areas around Coimbatore city. The NGO’s give support in locating the needy people and their help is very important in executing extension activities and thus

association of NGOs goes long way in strengthening extension activities of KCT Business School.

40. Student placement

Students participate in training programmes leading to placements from second year onwards. Infosys and other software companies conduct these programmes along with the faculty members. These are organized by the Placement Cell. This ensures readiness of the students for the placement interviews. Students are able to do well and secure jobs in reputed organizations.

3.7.3 Does the College have MoUs Nationally / Internationally and with Institutions of National importance/other Universities/ Industries/Corporate houses etc.? If yes, explain how the MoUs have contributed in enhancing the quality and output of teaching learning, research and development activities of the College?

List of MOUs signed:

S. No	MoU Details	Year	National/ International	Contribution
1	M/s. Ultra Ready Mix Concrete (P) Ltd, Coimbatore - 12	06.06.2014 (2 years)	National	Support for students projects, In-plant training and guest lecturers & site visit to Ready mix plants
2	Dimensions (P) Ltd, Coimbatore	09.06.2014 (2 years)	National	Support for students projects In-plant training, Internships, Guest lectures and Placement
3	M/s. Ultra Ready Mix Concrete (P) Ltd, Coimbatore - 12	06.06.2012 (2 years)	National	Support for students projects & In-plant training and guest lectures
4	ACC Cements Pvt Ltd, Coimbatore	09.05.2011 (1 year)	National	Support for students projects & In-plant training
5	M/s. Ultra Ready Mix Concrete (P) Ltd, Coimbatore - 12	22.08.2011 (1 year)	National	Support for student projects, In-plant training and site visit to Ready mix plants
6	Confederation of India Industry (CII), Mumbai	2000	National	Support for students projects, In-plant training and guest lecturers & site visit to Ready mix plants
7	M/s. Statex Engineering (P) Ltd., Tamil Nadu	2001	National	Support for students projects, In-plant training and guest lecturers & site visit to Ready

S. No	MoU Details	Year	National/ International	Contribution
				mix plants
8	M/s.Sangeeth Textiles Ltd., Tamil Nadu	2001	National	Support for students projects, In-plant training and guest lecturers & site visit to Ready mix plants
9	Technical University of Liberec, Czech Republic	2015	International	Support for students projects, In-plant training and guest lecturers & site visit to Ready mix plants
10	Texas Tech University, USA	2005	International	Support for students projects, In-plant training and guest lecturers & site visit to Ready mix plants
11	Indian Textile Accessories & Machinery Manufacturers' Association, Mumbai (ITAMMA), Mumbai	2005	National	Support for students projects, In-plant training and guest lecturers & site visit to Ready mix plants
12	Manchester Metropolitan University , UK	2009	International	Support for students projects, In-plant training and guest lecturers & site visit to Ready mix plants
13	Aerospace Materials Private Limited, Tamil Nadu	2013	National	Support for students projects, In-plant training and guest lecturers & site visit to Ready mix plants
14	Infosys Campus Connect Program-CSE	2015-2017	National	Student / Education 1. Create a project bank for final year students 2. Publish Infosys courseware On the Web and provide access 3. Conducting special lectures for students at campuses 4. Participate in Conferences at the National/International level in the college / Seminars/ Contests

S. No	MoU Details	Year	National/ International	Contribution
				5. Increase employability by providing technical and soft skills training 6. Encouraging the students to visit Infosys Campuses **Faculty** 1. Sharing Industry oriented-courseware and Technology 2. Faculty Enablement Program 3. Sabbaticals at Infosys 4. Interaction with subject matter experts **College** 1. Share best-in-class standards (a) College-college (b) Industry-college 2. Books / CDs / DVDs etc for the library 3. Strengthen relationship with Universities / Colleges 4. Work with education bodies / universities to align the industry requirements into the college curriculum
15	MoU with California State University , Northridge	2012 -15	International	SS12 Asia– International Project Competition on Assistive Technologies with Project Possibility Research paper publication :Innovation and entrepreneurship in global markets – an initial identification of the divide that can exist between countries, Proceedings of The American

S. No	MoU Details	Year	National/ International	Contribution
				Society for Engineering Management 2014 International Annual Conference, S. Long, E-H Ng and C. Downing eds. One credit course on "Innovation and Entrepreneurship " introduced DAB &BoS members- Dr.Ramesh&Dr.JimmyGandhi, California State University,Northridge
16	MoU with IEEE	2012-13		International conference on "Intelligent Interactive Systems and Assistive Technologies"
17	Regional Telecom Training Centre (BSNL), Chennai	2008	National	Internship/ Project
18	M/s. Vignani Technologies Pvt. Ltd. Coimbatore	2010	National	Internship/ Project
19	National Institute of Amateur Radio (NIAR), Hyderabad	2011	National	Internship/ Project
20	M/s. Soliton Technologies Pvt. Ltd. Bangalore	2011	National	Internship/ Project
21	M/s. Robert Bosch Engineering and Business Solutions Limited, Bangalore	2011	National	Internship/ Project
22	M/s. Pramura Software Solution Limited	2015	National	Consultancy, Internship
23	MoU with KKM Soft Pvt Ltd	2013-14	National	Short Term Course on "Autodesk Inventor"
24	Tungabhadra Biofertilizers Ltd., Hospet, Bellary (Dt.), Karnataka	2010	National	R&D project
25	Reach Technologies &	2004	National	CAD training Programmes

S. No	MoU Details	Year	National/ International	Contribution
	Consulting P.Ltd., Bangalore – KCT TIFAC CORE partner			

3.7.4 Have the College- industry interactions resulted in the establishment creation of highly specialized laboratories / facilities?

All the Departments with their interaction with Senior Engineers of various Industries have developed specialized Laboratorys/facilities:

S.No.	Specialized Laboratorys
1	TIFAC CORE sponsored by DST
2	Intel sponsored Laboratory on 'Assistive Technologies'
4	Centre of Excellence in Advanced Design
5	TBI-CIBI sponsored DST
6	Lectra Apparel CAD Laboratory
7	Virtual Laboratory
8	CISCO
9	CEAD
10	GARAGE
11	iQUBE

Additional Information regarding Research, Consultancy and Extension, which the Institution would like to include:

KCT Tech Park, an information technology (IT) situated in Coimbatore, India. It is a unit of **Ramanandha Adigalar Foundation** is operational since 2008, in 4.18 acres of land with 2.5 Lakh Sq ft of built up area and Software technology Parks of India IT Park is housed at KCT Campus building with 1.5 Lakh Sq ft of built up area. KCT Tech Park is located at Kumaraguru College of Technology (KCT) with a campus area over 150 acres of land. Several reputed organizations are already operating from KCT Tech Park, which includes Ford Business Services Center, Firstsource Solutions Limited, Cordys Software India Pvt Ltd, Vanenburge Software India Pvt Ltd and Cognizant Technology Solutions. C-Bay Systems and Cognizant Technology Solutions also operate from STPI-IT Park housed at Dr Mahalingam Vigyan Bhavan in the main campus.

CEAD-CENTRE OF EXCELLENCE FOR ADVANCE DESIGN

CEAD is established to bring "Science to Engineering" culture using "High Performance Computing" and address the technological needs for the country through quality education and training.

- Enables students to face design challenges in Aerospace, Automotive, Civil, Electronics, Mechanical, Marine, and Mechatronics, Energy, Textile and other domains.
- Inculcates modern design tools for basic sciences of solids, fluids, heat transfer, electromagnetism leading to lifting and optimization and make the students ready for industry absorption.
- Offers students excellent design learning experience through project based learning and help them to develop a close empathy with the Global Engineering Design Community and experts in the industry through stronger Industry Academia collaboration and adjunct faculties from industries.
- Provides advanced solutions, research and development support to industries in product development with an experienced pool of faculty and advanced infrastructure available in various domains.
- Conducts regular training courses for students, faculty and industry engineers to update skill sets relevant to current design industry requirements and on industry specific design tools.

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES






4.1 Physical Facilities

4.1.1 How does the College plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?

The infrastructure facilities are being added every year. Each department has adequate number of class rooms depending upon the number of programmes for that department. The Institution takes due care in systematically adding, renovating, upgrading and maintaining buildings, equipment and other infrastructure facilities with regular supervision by the management. This results in classrooms and laboratories with enhanced facilities for the budding engineers. The infrastructure enhancement takes place as and when required not only through the recommendations from Anna University but also as warranted by the technical advancements.

Facilities

Our College has one common air conditioned auditorium with the capacity of 1100. The college has required number of fields for conducting sports and games events. In addition to hostels, there are 22buses plying to nearbylocations for the smooth transit of both students and staff members. Also the college has the following facilities.

- Karur Vysya Bank with ATM
- AXIS Bank's ATM
- Arutjothimedical centre
- Stores for purchasing stationeries
- KORE (Cafeteria)
- Various forums / clubs for co-curricular and extracurricular activities
- Mahatma Gandhi Study Centre
- Vivekananda Study Centre
- Meditation Centre
- KRAFT (International standard men gym)
- Photocopying facilities for students
- Green Cover

  Most of the area in the college is covered with beautiful lawn and trees.
- Water facility

  In addition to corporation supplied water, borewells are available. RO Plants are installed in the campus for purifying drinking water.
- Environmental preservation

  300000Liter/dayeffluent water treatment plant employing the latest Sequential Batch Reaction (SBR) is established to recycle the students' hostel waste water and the entire treated water is used to irrigate the garden of KCT.

Being an autonomous Institution, the college has a predominant system in planning and ensuring the availability of the physical infrastructure and its optimal utilization. The Institution has separate departments to look after the campus facilities like buildings, furniture, electrical maintenance, computers and network maintenance. Every year the requirements are obtained from each department through the Head of the Department and the gathered requirements are further consolidated with the budget and submitted to the principal for approval.

Optimal utilization

The student strength of the college is 6158 (both UG and PG). The college working hours is 8.30 am to 4.30 pm. The laboratories are kept open beyond the working hours. The central library is functioning all days from 8.00 am to 11.00 pm for the better usage of the books, journals, magazines and e-library. Thesefacilities are open to students during evening hours apart from the regular working hours to ensure better utilization of facilities.

To ensure the optimal utilization of the facilities, an estate office with an estate manager functions in the campus under the supervision of DGM-Commercial for maintenance of academic infrastructure and facilities. The details of the members are listed below.

S.No	Name	Designation
1	Mr.P.K.Rajendran	DGM-Commercial
2	Mr.B.Bheeman	Head, Infrastructure
3	Mr. M.K. Kumar	Facilities Manager
4	Mr. S.Rajagopal	Junior Engineer
5	Mr.V.Muthuselvan	Electrical Manager

Further to all, the departments have faculty in-charge to take care of the infrastructure facilities like computers, laboratory equipment and all the general amenities both in the campus and hostel premises ensuring proper utilization.

4.1.2 Does the College have a policy for creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.

Yes. Our Institution is committed to upgrade and enhance the infrastructural facilities to meet the growing needs of the college in the teaching-learning process deriving benefits that would deliver better value for money, enhanced quality services and increase in efficiency.

The recent initiatives taken by the college are given below:

- Renovation of academic blocks
- Centre of Excellence in Advanced Design (CEAD)
- Technology Incubation Centre(iQUBE)
- Additional laboratories
- Smart classrooms

- KORE
- KRAFT
- Two wheeler parking facilities
- Guest house

4.1.3 Does the College provide all departments with facilities like office room, common room, separate rest rooms for women students and staff?

Yes, the Institution provides amenities like

- Office room with computers, printers, scanners and photocopying facility
- Notice Boards
- Separate rest rooms for boys, girls and faculty members in all the academic blocks and department blocks

4.1.4 How does the College ensure that the infrastructure facilities meet the requirements of students/staff with disabilities?

The college has facilitated to meet the needs of students / staff with disabilities

- Ramp facility is provided in all the blocks
- Lift facilities
- Relocation of the class rooms and exam halls for their convenience, if needed
- Special attention and counselling
- Wheel Chair facility

4.1.5 How does the College cater to the residential requirements of students? Mention Hostel Facilities:

The College has a well-equipped hostel facilities formen and women with separate mess facilities in each hostel. The hostel details are listed below.

Name of the Block	Capacity (Nos.)	Occupancy (Nos.)	No. of Rooms	Facilities
Boys Hostel				1. Solar Water Heater 2. Wi-Fi 3. TV with cable connection 4. Mess Facility 5. CCTV 6. Gymnasium
BH – 01	248	253	60	
BH – 02	308	313	75	
BH – 03	648	656	158	
BH – 04	540	558	130	

BH – 05	196	206	48	7. Reading Room - Newspapers 8. Internet Browsing centre 9. Shop – Eatables / Essentials 10. Laundry Service 11. Medical Centre 12. Sewage Treatment Plant 13. 24x7 Security 14. Caretakers / Resident Tutors
BH – 06	196	210	48	
Total (Boys)	**2136**	**2196**	**519**	
Girls Hostel				
LH – A	658	631	162	
LH – B	434	419	106	
LH – C	196	184	48	
Total (Girls)	**1288**	**1234**	**316**	
Grand Total (Boys + Girls)	**3424**	**3430**	**835**	

Recreational facilities in hostel/s like gymnasium, yoga center, etc.

The boy'shostel has a volleyball court and badminton court. In girl'shostel badminton court and table tennis is available.

a) Gym for women:

The women gym is established with the following equipment.

Girls'gym:900 Sq.ft. Capacity: 25 Nos.	
S.No.	**Name of the Equipment**
1	Tummy Vibrator
2	Twister
3	Abdominal board with knee rest
4	Adjustable bench press leg curl and leg extension
5	Peck-deck
6	High lat and low lat pulley
7	Tread mill
8	Stepper
9	Body Inverter
10	Hydraulic rowing machine
11	Seated calf raise
12	Chromium plated rods and barbell plates

4.1.6 How does the College cope with the health related support services for its students, faculty and non-teaching staff on the campus and beyond?

The College has an exclusive AruljothiMedical Centre with a doctor in the campus. The medical centre has all the facilities with the nursing assistants. This ensures health related support services for students and staff. The following facilities are available.

- Residential Medical Officer(RMO), Nursing staff, Laboratory Technician, and Sanitary worker
- One ambulance service available within the Institution
- A hospital with the following infrastructure facilities are available within the campus**:**
    - Beds - 8 Nos.
    - Clinical Laboratory for basic investigations
    - ECG facility
    - Basic medicines – drug store
    - Wheelchair & Stretcher
    - Lifesaving equipment - suction apparatus, oxygen cylinder, bag & mask, Nebulizer etc.
    - Ambulance & Driver (round the clock)
- The hospital serves the students, employees and their family for common ailments. For emergency cases, first aid is provided in the hospital and after stabilizing, the patient is moved to the referral hospital.
- Counselling to needy patients is provided by the medical personnel.
- All the academic buildings, laboratories, physical education department and hostels (Boys & Girls) are provided with first aid boxes which are located at important vantage points.
- All the staff members are covered under group medical Insurance
- Employees' State Insurance (ESI) is provided for all eligible staff members.
- All the students are covered under Accident Insurance policy.

4.1.7 What special facilities are made available on the campus to promote interest in sports and cultural events?

The department of physical education has been established to promote the sports talent of the students within and outside the campus. The department has a team of qualified sports instructors and facilities to nurture the talents of the students and faculty. They are

encouraged to participate in sports activities within and outside the campus and they have brought many achievements to the Institution.

Department of Physical Education Faculty

Sl. No.	Name of the staff	Designation	Qualification
1	Dr. V. Albert Premkumar	Physical Education Director	B.A.M.P.Ed., M.Phil., Ph.D., MBA
2	Ms. M.Nirmala Devi	Physical Directress	B.A.M.P.Ed, M.Phil., PGDY [NET]
3	Mr.K.M.Muthu Kumar	Assistant Physical Director	B.A.M.P.Ed, PGDY, M.Phil.
4	Mr.S.Thangadurai	Physical Training Instructor	B.A.B.P.Ed
5	Mr. R.Viswanathan	Selection Grade Marker	
6	Mr. K.P.Murukesan	Marker	

The students have been making their presence felt with lot of prizes and medals in different games and sports in International, National, University and State level competitive events. In addition to successfully training and deputing students to participate in different championships, the college has been hosting International, National, State, District Level and Anna university intercollege tournaments. To accomplish all these achievements, the following special facilities are available in the campus.

i) **Outdoor games facilities**

Extensive sports facilities are available in a sprawling area of 23 acres. The following courts have been laid down as per professional standards.

S.No.	Infrastructure	Area available (Sq.mts.)
Sports facilities		
a) Outdoor games facilities		
1	Football field (1 No.)	9200
2	Hockey field (1 No.)	6324
3	Cricket Circle with 400mts track (1 No.)	11315
4	Basketball courts (2 Nos.) Basketball PU Court with Flood Light (1 No.)	2838.28
5	Volleyball Women (1 No.)	586.96

6	Volleyball Men courts with flood light (2 Nos.)	1414.72
7	Ball Badminton Women Court (1 No.)	501.67
8	Ball badminton Men courts (1 No.)	649.94
9	Kabaddi court (2 Nos.)	607.02
10	Cricket practice pitch (3 Nos.)	543.48
11	Synthetic Tennis court (1 No.)	1059.09
12	Hand ball court (1 No.)	1394.93
13	Kho-Kho court (1 No.)	1011.71
14	Fives Foot Ball Court (2 Nos.)	2207.37
15	Throw Ball (1 No.)	535.12
b) Indoor stadium & GYM		
1	Synthetic badminton court (6Nos.) with multi-purpose facility	1025 sq.mt
2	Gym (KRAFT)	287.99 sq.mt

KRAFT – International Standard Men Gym

A fully furnished gym with international standard fitness equipment is functioning for the men student and faculty.



Grand opening of KRAFT by having Mr.Kamaraj, Mr.India (7 Times) as special guest in the presence of our Joint Correspondent Shri ShankarVanavarayar and Dr.R.S.Kumar, Principal.

KRAFT – International Standard Men Gym– Facilities

Sl.No	Description	Quantity
1	Treadmill	5
2	Efx 536	3
3	Efx 532i	2
4	Rbk and Ubk	4
5	Multipress	1
6	Leg Extension	1
7	Leg Press	1
8	Pull Down	1
9	Power Cage	1
10	Stretch Trainer	1
11	Thigh Abductor	1
12	Ab Crunch	2
13	Yoga Mat	9
14	Medicine Ball	4
15	Swiss Ball M	3
16	Swiss Ball L	3
17	Olympic Bar 7ft	4
18	Olympic Bar 5ft	4
19	Ez Bar	2
21	Preacher Bench	1
22	Resistance Band	3
23	Dumbbells Rack(2tier)	2
24	Vertical Tree	2
25	Dumbbells Upto 25kg	Each 1 Pair
26	Weight Plates(Upto 25 Kg)	Each 1 Pair
27	Hyper Extension	2
28	Twister	2
29	Parallel Bar	1
30	Horizontal Bar	1
31	Air Walker	1
32	Adjustable Bench	1
33	Peck Deck	1
34	Bench Press	2
35	Lat PullDown	1
36	Cable Row	1
37	Preacher	1
38	Multi Station	1
39	Standing Calves	1
40	Dip Chin Assist	1
41	Fts Glide	1

ii) Indoor games facilities:

a) Indoor Stadium:

In addition to the above, indoor stadium of area 27,621sq.ft. is available with synthetic cushion surface. It accommodates sixshuttle courts, one basketball court andone volleyball court.

EVENTS ORGANIZED IN THE CAMPUS

Sl.No	Name of The Event	Duration
2015-2016		
1	Badminton Coaching camp for Faculty and Staff Children	22.04.2015 to 22.05.2015
2	Kumite National Karate Coaching Camp	05.05.2015 to 31.05. 2015
3	National Yoga day	21.06. 2015
4	Helmet Awareness Logo formation	03.06.2015
5	Coimbatore District Badminton Tournament for Media Peoples	12.07.15
6	Coimbatore District Paralympic Meet	26.07.14
7	12thKICS '15- Inter College Annual Sportmeet	15.08.15 to 17.08.15
8	Anna University Zone XI Badminton Men and Women Tournament	23.08.15
9	Anna University Zone XI Cricket Men Tournament	12.09.15 to 16.09.15
10	KCT Media Cricket tournament for Media People	06.09.15 to 02.10.15
11	Tamilnadu State Junior Silambam championship	02.10.15
12	Anna University Zone XI Hockey Men Tournament	30.09.15 to 01.10.15
13	Anna University Zone XI Athletics Men and Women Meet	09.10.15 to 11.10.15
14	Social awareness Marathon at Race course	01.11.15
15	Fifth National Paralympic Sitting Volleyball Championship	5.12.2015 to 6.12.2015
16	Global Alumni Sports meet	19.12.2015
17	32nd State karate championship – 1000 participants	25.12.15 to 26.12.15
18	Marathon race for Boys and Girls for West Gate Inauguration Race.	30.12.15
19	Anna University Inter Zone Fencing Championship for Men and Women	30.01.16 to 01.02.16
2014-2015		
1	National Hand Ball Coaching Camp	06.05.14 to 20.05.14
2	10th Moses Memorial National Karate Championship	26.07.14 to 27.07.14
3	11th KCT Sports Fest 2015	15.08.14 to 16.08.14
4	Anna University Zone Basket Ball Women Tournament	02.09.14
5	Anna University Zone Badminton Men Tournament	21.09.14
6	Anna University Zone Badminton Women	21.09.14

	Tournament	
7	National level Karate Workshop	23.01.15
8	Tamil Nadu State Karate Championship	24.01.15 to 25.01.15
2013-14		
1.	International Karate Championship	04.07.13 to 07.07.2013
2.	10thKCT Sports Fest 2014	01.08.13 to 03.08.13
3.	Anna University Zone XI Foot Ball Men Tournament	09.08.2013 to 12.08.2013
4.	Anna University Zone XI Badminton Men Tournament	18.08.2013
5.	Anna University Zone XI Badminton Women Tournament	18.08.2013
6.	Anna University Zone XI Cricket Men Tournament	26.08.2013 to 31.08.2013
7.	Anna University Zone XI Hand Ball Tournament	02.09.2013 to 03.09.2013
8.	Yi Championship for Badminton, Ball Badminton and Tennis for Men and Badminton, Throw Ball and Ball Badminton for Women	12.09.2013 to 13.09.2013
9.	Anna University Zone XI Hockey Men Tournament	23.09.2013 to 24.09.2013
10.	Anna University Zone XI Athletic Meet for Men and Women	25.09.2013 to 27.09.2013
11.	28th State level Karate Championship	02.01.2014
12.	Anna University Paralympics Athletic Meet for Men & Women	05.02.2014
13.	3rd SIICAA Tournament	03.03.2014 to 18.03.2014
2012-13		
1.	Handball Referees Clinic	17.05.2012 to 19.05.2012
2.	9th KCT Sports Fest, Inter Engineering Tournament for ArutselvarN.Mahalingam Rolling Trophy	03.08.2012 to 10.08.2012
3.	Anna University Zone XI Badminton Men & Women Tournament	31.08.2012
4.	Anna University Zone XI Hockey Men Tournament	31.08.2012 to 01.09.2012
5.	Anna University Zone XI Basket Ball Women Tournament	05.10.2012
6.	Anna University Zone XI Tennis Men Tournament	11.10.2012
7.	Anna University Inter Zone Taekwondo Men & Women Tournament	14.12.2012
8.	Indian Power lifting coaching Camp	03.12.2012 to 12.12.2012
9.	Coimbatore Vizha T20 Cricket Tournament	18.01.2013 to 27.01.2013





Table Tennis Men & Women Team won the Champions trophy in Anna University Zone XI Tournament





Anna University Zone Badminton and Volley Ball Men team won the Champions trophy





Anna University Zone Tournament Hockey and Kabaddi Men team won the Champions trophy

CULTURAL ACTIVITIES

College encourages students to exhibit their talents during national level techno cultural festival (Yugam), Tamil ArivuThiruvizha, Department level events etc. Many clubs have been formed to nurture the cultural activities. Funds are provided to procure the required instruments and other accessories.

The following clubs are functioning in the college to provide a platform for students toexhibittheir talents:

- Humour Club
- Music Club
- Dance Club
- Fine Arts Club
- Tamil Mandram
- Sahitya – (Literary Club)
- Studio KCT
- Varnam KCT



KCT Sandhai, organized by LEED from 3rd to 5th March 2014

4.2 Library as a Learning Resource

- Mahatma Gandhi Central Library is well equipped with books, journals (print and electronic). Digital library with efficient search tools such as OPAC, DELNET is available. It is equipped with Closed Circuit Television System (CCTV).
- It has space for conducting group discussions, reading hall for staff and students, e-Library, reference hall and stacking area etc.

- It is a modern library with a carpet area of about 1574.8 sq.mt.
- Fully automated with bar-coded environment.
- Open Access System is being followed in the Central Library.
- In addition to the well-stacked central library, every department has their own departmental library to facilitate easy access for the faculty, students and research scholars.



4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes, the library has a Library Advisory Committee (LAC), with the Principal as Chairman, the Prof. In-Charge of library as Convener, the Librarian as Secretary and one faculty member from each department as members. The following are the significant initiatives implemented by the LAC:

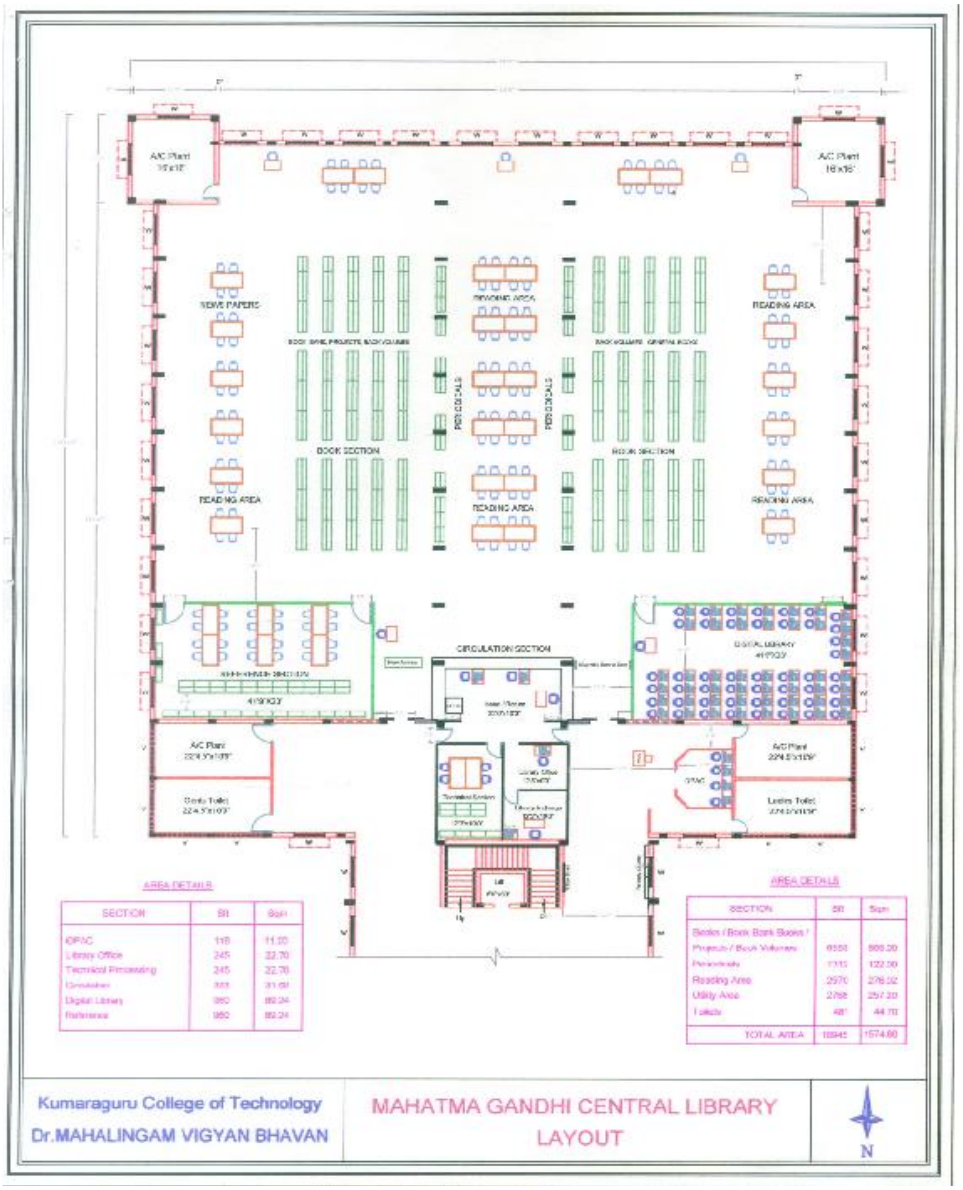
- The committee meets once in a semester to review the library activities, developments and future plans.
- Soft copies of previous year question papers are available in library OPAC for easy access by students and faculty members.
- Soft copies of previous year student projects are available in library OPAC for easy access by students and faculty members.

4.2.2 Provide details of the following:

Total area of the library (in Sq. Mts.)	1574.8 sq.mt
Total seating capacity	252 Numbers
Working hours	
on working days on holidays during examination days during vacation	8.00 am - 11.00 pm 8.30 am - 04.30 pm 8.00 am - 11.00 pm 8.30 am - 05.30 pm

Layout of the library

The library is housed in the first floor of Dr. MahalingamVigyanBhavan. The layout of the library is shown below.



Access to the premises through prominent display of clearly laid out floor plan; adequate signage; fire alarm; access to differently abled users and mode of access to collection)

- Barcode Identity card is provided to the user for library related transactions.
- Adequate sign boards are kept in the stock areas and all locations.
- Provision to access the library resources for differently-abled users.
- Ramp has been provided at the entrance of the building for differently-abled users to enter the library.
- Lift has been provided for differently-abled users to enter the library.

4.2.3 Give details on the library holdings

a) Print version

Particulars	Total No.
Books	103543
Journals	178
Back Volumes	9568

b) Non Print version

Particulars	Total No.
CD/DVDs	5816
Audio/Video Taps	100
Floppy	458

c) Electronic version

Particulars	Total No.
e-Books	632
e-Journals	9893
Reference books	3288
Standards	188
Projects	4556

4.2.4 What tools does the library deploy to provide access to the collection?

OPAC	The user can search the library database through Online Public Access Catalogue (OPAC) within the campus through intranet. OPAC provides following information to the users: • Bibliographic information about all the available

	library materials. • Availability of books by typing the keywords of Title, Authors Name, Book Number etc. • User library account details. • End semester question papers.
Electronic Resource Management package for e-journals	Electronic resource management package (more than 9800 e-journals) linked Library software for user's easy access.
Federated searching tools to search articles in multiple databases	Yes, available. The tool is usedto collate the results of the search from various sources / journals and provide the summarized results. List of such services are IEEE-ASPP, ASME, ASCE, Springer, J-GATE, ELSEIVER, ASTM, EBSCO and Nature Publishing Group.
Library Website	There is an exclusive website designed for the learning centre with comprehensivedetails, highlights and photo gallery, http://www.kct.ac.in/campus-life/facilities/library/
In-house access to e-publications	Yes, http://10.1.105.24/localg/

4.2.5 To what extent is the ICT deployed in the library?

Library automation	The library is fully automated with circulation transaction and user's visits are managed through bar-coded ID cards
Total number of computers for public access	Anywhere (in the campus), anytime registered devices can have access. However, the computer facilities are available for public access in the following places • Library • Hostel (Boys and girls) • Department Library • Computer laboratories
Total numbers of printers for public access	Network printers are available in the central library and in the departments.
Internet band width speed	256 mbps @ 1 gbps
Institutional Repository	Question Bank and Students Projects are stored in library server and it can be accessible through library OPAC
Content management system for e-learning	http://10.1.105.24/localg/
Participation in Resource sharing networks / consortia (like Inflibnet)	DELNET Membership

4.2.6 Provide details

Average number of walk-ins	335/day
Average number of books issued/returned	430/day
Ratio of library books to students enrolled	18: 1
Average number of books added during last three years	4281/ Year
Average number of login to OPAC	Above 75 / Day
Average number of login to e-resources	Above 100 / Day
Average number of e-resources downloaded/printed	Above 50 /Day
Number of information literacy trainings organized	Once a year

4.2.7 Give details of the specialized services provided by the library

Manuscripts	The manuscript collections are available in the library for students and faculty.
Reference	A separate reference section is available with reference books, handbooks, encyclopedia, dictionaries and competitive exam guides.
Reprography	The reprography service is provided to the library users with nominal cost.
Inter Library Loan Service	Books can be borrowed through DELNET for 10 days
Information Deployment and Notification	New books are displayed at the entrance of the library to attract the attention of the users. The information on subject headlines is notified to all the HODs, Faculty and Non-teaching staff through email.
OPAC	The OPAC is available and can accessible through intranet within the campus.
Internet Access	The digital library with 10 computers with internet connection and provision for 10 connections for laptops holders.
Downloads	Students can download necessary articles from library subscribed e-journal packages.
Printouts	Printout facility is available in the library for users with nominal costs.
Reading list/ Bibliography compilation	The bibliography facility is available in OPAC, the faculty and students can refer by using the OPAC. The bibliographic service is provided to the user's on-request.
In-house/remote access to e-resources	The subscribed e-resources (ASCE, ASME, EBSCO, IEEE, Science Direct, Springer, Access Engineering, ASTM Digital Library are accessible in in-house and also through remote access.

User Orientation	Orientation programmes are conducted every year to explain the facilities and services available for students.
Assistance in searching databases	Provided by librarian and library staff
INFLIBNET/IUC facilities	The Library is active member of DELNET
Book Bank	Book bank for needy students

4.2.8 Provide details on the annual library budget and the amount spent for purchasing new books and journals.

	2014-15		2013-14		2012-13	
	Budget (Rs.)	Amount Spent (Rs)	Budget (Rs.)	Amount Spent (Rs)	Budget (Rs.)	Amount Spent (Rs)
Books	5000000	2389954	5000000	164602	5000000	4832366
Journals & Magazines (Print)	1800000	100088	1500000	1142718	1500000	936123
e-Journals	3500000	3981130	3000000	2765651	3000000	2737661
CD/DVDs	-	-	-	5291	-	-

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services.

- Yes. The library gets feedback (both formal and informal) from its users.
- The requirements regarding purchase of new titles, journals and periodicals are obtained from students, faculty and staff. The purchase process is carried out based on the requirement.
- The formal feedback and suggestions are received from the users and analyzed, findings are carefully reviewed and appropriate action is taken to maintain and improve the quality of library service.

4.2.10 List the infrastructural development of the library over the last four years.

- Two printers are provided for circulation section management
- E-Gate Register has been introduced for users exit and entry
- Three computer systems are provided additionally for OPAC search & renewal
- Internet facility is established for laptop holders based on feedback

4.2.11 Did the library organize workshop/s for students, teachers, non-teaching staff of the College to facilitate better Library usage?

- Orientation sessions organized for new students to make them aware about library procedures and facilities for effective utilization of library.
- Research publication webinar organized for faculty and researchers to update their knowledge and publication skills.

4.3 IT Infrastructure

4.3.1 Does the College have a comprehensive IT policy addressing standards on IT Service Management, Information Security, Network Security, Risk Management and Software Asset Management?

Yes, The College has a comprehensive IT policy addressing standards on IT Service Management, Information Security, Network Security, Risk Management and Software Asset Management.

IT Service Management

- College has IT Service Management team lead by Separate Department (Department of Technology Services). The common Servers, Networking infrastructure and common licensed software and hardware are maintained by the DTS team
- System purchase and maintenance committee (DTS team) has been framed to improve the efficiency and effectiveness in decision making. The committee activities are aligned with academic as well as administrative needs.
- College makes use of IT services for certain functionalities of the college like Student attendance maintenance, Continuous mark assessment and Academic record maintenance by MIS software.

Risk Management

- Backup procedures have been established and carried out on the college servers to handle risk of information loss. Proper infrastructure (Dedicated Space, Air-conditioners) has been provided for IT Infrastructure/Management.
- Security updates and vulnerability patches to the servers and other critical systems are carried out regularly.

- The network administrator and his team monitor the attacks on the network
- The websites with insecure contents are blocked for access to prevent the risk of access to untrusted websites.

Green Computing

In-order to reduce the electronic hazards and to improve the energy efficiency the following policies are adopted:

- Replacing CRT monitors with LCD/TFT monitors.
- Thin clients are being used instead of Desktops, wherever meeting the requirements

Software Asset Management

- DTS In –Charge act as an authority to purchase software related to Computers and network related equipment's for the College.

Open Source Resources

- When purchasing new software, free and open-source software and proprietary software are to be considered on an equal footing.
- Students shall be given the opportunity of learning about and using free and open-source software on par with proprietary software.

4.3.2 Give details of the College's computing facilities (hardware and software).

Hardware facilities:

The Institution provides full-fledged computing facilities with necessary software.

Totally **1907** computers are available across various laboratories and departments for the benefit of students and faculty members ranging from Pentium IV processor to Xeon Processor

- Most of the departments have separate computer centers with required software and hardware with internet connectivity on demand as per AICTE regulations. Internet connectivity at the speed of 256 Mbps is provided all over the campus.
- Computer student ratio:1:3
- As per AICTE norms 1200 computers is needed but 1907 computers are available for students.
- Dedicated computing facility:

- Common Computing facilities in CAD Center, CEAD Laboratory, Portal Laboratory, Digital Library, Language Laboratory and Computer Laboratory, Open source laboratory, Boys hostel Browsing Center and Girls hostel Browsing Center.
- Internet facility is provided to all the staff members to enhance their learning and research

❖ Server facilities:

- Gmail server
- Ezod NOD32 antivirus server
- DNS server
- DHCP server
- Radius Authentication server
- Web portal server
- Wireless authentication server

❖ LAN & Wi-Fi Facility

Network Backbone of 1G with structured 2 distribution point covering area of 150 acres (All Academic Blocks, Hostels, Staff Quarters, Dining Halls, Boys & Girls Gym, Transport Office, Guest House,KORE and etc.,) with wired and wireless components.

The active network components includes

1. Distribution switches - 35 Nos
2. Edge Switches - 124 Nos
3. Wireless Indoor and Outdoor AP's - 210 Nos
4. Aruba 3600 Controller - 2 Nos
5. Jaze Access Manager - JAM 3000 (Wi-Fi Authentication) - 1 No
6. Cisco Router 3825 - 1 No
7. Checkpoint Firewall 13500 - 1 No
8. Core Switches - 2 Nos with 1G and 10G Supports (24 FOC Ports)

❖ Wi-Fi facility: Wi-Fi facility in all the Hostel blocks, MBA block, KORE and few common areas in Admin Block.

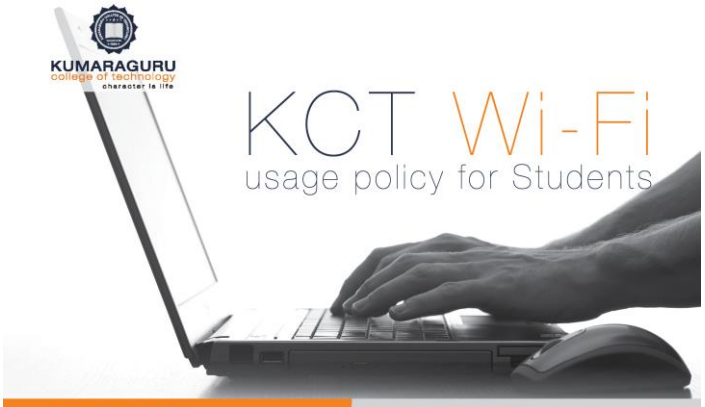
❖ Web portal and digital library with e –resources



User Responsibilities

- Should bring their ID card and register with center incharge.
- Should not bring any food items inside the center
- Should not bring their own laptop inside the center
- Each user will get time limit depends on the users strength
- Should maintain the systems and furniture

OPENING HOURS		
Weekdays Evening 05:00 pm to 10:00 pm	Holidays / Weekends 09:00 am to 01:00 pm & 04:00 pm to 10:00 pm	Vacation Time will be Closed.



FREEDOM HOUR POLICY
Morning 06:00 am to 08:00 am
Evening 05:00 pm to 08:00 pm

ALLOWED CATEGORY
Social Networking | YouTube | Entertainment |online shopping | Sports | Bandwidth consuming | General Interest | Freeware | File sharing | Video streaming | Trading | Travel and more.

NOTE : During this time internet speed will be low because of high bandwidth consuming usage.

KNOWLEDGE HOUR POLICY
During weekdays
Morning 04:00 am to 06:00 am
Evening 08:00 pm to 12:00 pm
During weekends and holidays
08:00 am to 05:00 pm

ALLOWED CATEGORY
Education | web based email | News and Media | Search Engines and Portals | Information Technology and all Academic related web sites – other than this categories will be blocked

NOTE : It is recommended to use The HUB or The Portal Lab for the downloads above 200 MB. However we allow downloads up to 200MB per connection.

For **New wi-fi registration** use the SSID "KCTWIFI Registration" from the available wifi connections, activations will be done in 3days.

For any wifi related issues, please register your compliants at
student wifi issue reporting system
username = student roll no.
password = date of birth

http://www.kctsmartapps.ac.in/student

For Any Clarification / Suggestions / Complaints
CONTACT DEPARTMENT OF TECHNOLOGY SERVICES
94 87 700825 | 94 87 700826 or Extn 1525 | 1527
wifihelpdesk@kct.ac.in | supportdesk@kct.ac.in

Software facilities available in the departments

S.No	Department Name	Software	Licensed/ Open source
1	**Aeronautical Engineering**	Ansys 16	Licensed
2		Altair Hyperworks	Licensed
3		Catai V6	Licensed
4	**Automobile Engineering**	AutoCAD 2015	Licensed
5		Ansys Workbench 16.2	Licensed
6		MSC Software Package	Licensed
7		Autodesk Inventor 2015	Licensed
8		dSPACE - Control Development Software	Licensed
9		LABORATORYVIEW - 2013	Campus Wide License
10	**Bio-Technology**	Schrodinger suite	Licensed
11		Chimera	Open source
12		Phylip	Open source
13		Rasmol	Open source
14		Tree view	Open source
15		Seaview	Open source
16		R environment (windows)	Open source
17		Perl environment (windows)	Open source
18		EMBOSS	Open source
19		Biolinux	Open source
20		Bioedit	Open source
21		HMMER	Open source
22		Modeller	Open source
23		ImageJ	Open source
24	Civil Engineering	SEPL ESRGSR Software	Licensed
25		CAMP-EX Software	Licensed
26		NISA Software	Licensed
27		Upgradation of STRAP	Licensed
28		Upgradation of NISA	Licensed
29		ESRI ArcGIS ArcView	Licensed
30		Etabs Ultimate 2015 Education & Research License	Licensed
31		Bentley STAAD PRO Academic Student Server 5User Perpetual License	Licensed
32		Primavera Project Management Perpetual License	Licensed
33		MATLABORATORY suite All Products	Campus License
34		Autodesk All Products (AutoCAD)	Perpetual License

35		ANSYS Academic Metaphysics Campus Solution	Campus License
36	Computer science and Engineering	MS Visual Studio 6.0 Enterprise Edition	Perpetual License
37		Adodbe Photoshop CS2	Perpetual License
38		Macromedia Flash Professional	Perpetual License
39		Macromedia Dreamweaver	Perpetual License
40		Adobe Page Maker	Perpetual License
41		Macromedia Director MX	Perpetual License
42		Rational Suite Enterprise Edition	Perpetual License
43		CodeBlock13.10 with MinGW-4.7.1 compiler , Dev C++ 4.4.2	Open source
44		Scilaboratory-5.5.0, Ubuntu Linux 14.10	Open source
45		MySQL Essential 5.1.42,XAMPP	Open source
46		GIMP, Blender	Open source
47		Netbeans 8.0 Bundle, Eclipse 3.0	Open source
48		MS Visual Studio 6.0 Enterprise Edition	Perpetual License
49	Electronics and Communication Engineering	Optsim v 5.2	Perpetual
50		Metrowand v 3.5	Perpetual
51		Matlaboratory/Simulink and Toolboxes	Perpetual
52		CADFEKO for Antenna Simulation	Perpetual
53		NETSIM Networking Software	Perpetual
54		Modelsim Simulator/ISE Equivalent Software	Perpetual
55		PSPICE Circuit Simulator Equivalent Software	Perpetual
56		Cadence, Analog & Digital FE/BE VLSI back-end tools	Perpetual
57		Microwind Package	Perpetual
58		Qualnet Developer Teaching License	Perpetual
59		Mathematica	Perpetual
60		ANSYS HFSS	Perpetual
61	Electrical and Electronics Engineering	ETAP Software with 10 Users LAN	Licensed
62		MATLABORATORY 6.0 Simulink 4.0 with Tool Box	Licensed
63		ORCAD mixed Signal Suite with 5 user Licence	Licensed
64		PSCAD / EMTDC Ver 4 Software 10 User Lan	Licensed

65		MATLABORATORY 2009 (Common to all Branches)	Licensed
66		ETAP 14 Power System Simulation Software 10 + 1 Users	Licensed
67		PSIM	Licensed
68		PROTEUS VSM	Licensed
69		MP Laboratory Software	Licensed
70		IAR Embedded Workbench	Licensed
71		Laboratoryview Software 2012	Licensed
72		Xilinx	Open Source
73		Code Composer Studio (CCS)	Open Source
74	Electronics and Instrumentation Engineering	LaboratoryVIEW	Licensed (campus License)
75		Multisim	Licensed
76		Pspice	Open source
77	Fashion Technology	Lectra CAD Solution * Software (Flex id Key)	Licensed
78		Modaris	Licensed
79		Diamino	Licensed
80		Kalido	Licensed
		WGSN (World Global Sourcing Network)	Licensed
81	Information Technology	MS Visual Studio 6.0 Enterprise Edition	Perpetual License
82		Rational Suite Enterprise Edition	Perpetual License
83		CodeBlock13.10 with MinGW-4.7.1 compiler , Dev C++ 4.4.2	Open source
84		Scilaboratory-5.5.0, Ubuntu Linux 14.10	Open source
85		MySQL Essential 5.1.42,XAMPP	Open source
86		GIMP,Blender	Open source
87		Netbeans 8.0 Bundle, Eclipse 3.0	Open source
88		Java	Open source
89		Python	Open source
90		Qualnet Simulation software	Licensed
91		MySQL	Open Source
92	Mechatronics Engineering	Automation studio 5.2 Automation studio 5.6 Automation studio 6.1	Licensed Licensed Licensed
93		ABB PLC	Open source
94		Siemens	Licensed
95		Sound and vibration analyzer (Application software).	Open source

96		PC based Temperature control system (Application software).	Open source
97		LABview	Licensed
98		Robotics (Robo studio)	Licensed
99		Comsol	Licensed
100	Mechanical Engineering	Solid Work Classroom Pack 2015-16, With Subscription for 24 months, (3D CAD+ Simulation Software + CFD + Sustainability + Plastics)	Licensed
101		ANSYS Campus Wide Licenses, 10/100, Research / Academic Teaching,	Licensed
102		SolidWorks 2015	Licensed
103		EdgeCAM 2015	Licensed
104		MasterCAM X8	Licensed
105		Autodesk Inventor Professional	Licensed
106		CATIA Mechanical Engineering Solution ED2	Licensed
107		ANSYS Academic Teaching Perpetual License	Licensed
108		Pro-E Wildfire University Edition Perpetual License	Licensed
109		CREO Software (Formerly PRO / Engineer University Plus Laboratory Bundle perpetual license with one year maintenance	Licensed
110		WITNESS	
111	Master of Computer Applications	Turbo C	Open Source
112		MySQL	Open Source
113		GIMP	Open Source
114		Blender	Open Source
115		Java Development Kit	Open Source
116		WEKA Tool	Open Source
117		Tomcat	Open Source
118		VMWare Playstaion	Open Source
119		Citrix Xen Server	Open Source
120		Eclipse IDE	Open Source
121		Codeblocks	Open Source
122		Ubuntu	Open Source
123	Science and Humanities	Clarity	Licensed
124		S Net	Licensed
125	Textile Technology	WGSN	Licensed

- Microsoft campus agreement has been renewed periodically
- Number of nodes / computers with internet facility

We have connectivity for all the laboratorys with internet facility and all the staff machines are connected to internet**.**

4.3.3 What are the Institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

The College upgrades or deploys IT infrastructure and associated facilities regularly.

- Due to Technology advancement, update in IT infrastructure becomes mandatory to facilitate effective management of IT services
- IT infrastructure needs are replaced periodically to prevent nature wear and tear
    - Hardware up gradations is carried out in every three years.
    - Up gradation like Processor, RAM, Graphics Card and Hard drives is also carried out as and when required.
    - Software Licenses renewal will be done annually
- Extension of IT infrastructure due to increase in demand for IT services
- New IT infrastructure to provide cutting edge technology access to the academia and administration.

In all the above mentioned situations of deployment and upgrading the IT infrastructure, department will submit a proposal to the principal Office. The proposal will be approved based on the scrutiny by the DTS team. For the approved proposals, purchase and deployment will be carried out by the DTS team and the concerned department respectively.

4.3.4 Give details on access to online teaching and learning resources and other knowledge, and information provided to the staff and students for quality teaching, learning and research.

Most of the faculty and students have access to the PCs and Internet connectivity

The following resources can be accessed online by the staff members and students

- NPTEL Video lectures jointly developed by the IITs and IISC.
- Spoken tutorial consists of video tutorials for self-learning of Free and Open Source Software developed by IIT Bombay
- Online learning program of MOOC like courseera.com can be accessed from laboratories and faculty rooms to improve the experience of teaching, learning and research
- EDUSAT Programme
- TED talks

- E-Box Application Package is available for the students to improve their technical skills and prepare themselves for interviews.
    - E-Box is a Technology Enabled Active Learning and Assessment platform for technology and engineering domains. Apart from the basic LMS components like quizzes, assignments, lesson components, resource components etc., it has numerous activity components pertaining to technology and engineering concepts that could be used for design and analysis oriented learning. These components are also used for assessing the design and analysis skills of candidates, apart from the regular knowledge level testing
- Access to IEEE journals ,Springer and Elsevier journals

4.3.5 Give details on the ICT enabled classrooms/learning spaces available within the College and how they are utilized for enhancing the quality of teaching and learning.

- Most of the class rooms are ICT enabled that are equipped with a LCD projector with LAN and internet Connectivity
- All the Laboratories are provided with Internet facility accessing the e-learning resources for placement drives and mock tests.
- Wi-Fi Facility is available in Hostels and in specific areas of college to access e-journals and internet
- College has seminar Halls / Conference Rooms provided with Internet Connectivity and Audio Visual aids to facilitate workshops and other department activities.
- An exclusive digital library has been provided to facilitate access to e-journals.
- Class advisors are provided with laptops to enhance their learning
- Access to Open source materials during laboratory sessions

4.3.6 How are the faculty facilitated to prepare computer aided teaching-learning materials? What are the facilities available in the College or affiliating University for such initiatives?

- Faculty Members supplement the NPTEL Materials along with their teaching materials.
- The Faculty rooms are equipped with internet facilities and they can download learning materials required. They also have the access to the video materials like NPTEL Videos or any other materials from MIT, IIT, MOOC.

- The Students have access to learning materials like NPTEL Videos, EDUSAT, Journals or any learning materials in the Digital Library located at Library Block.
- Official mail id is provided to all the faculties(staffname@kct.ac.in) which are used by the faculty to register for online MOOC courses
- Inter-Networked laboratories
- Presence of Digital Library
- E-content of the End Semester Examination Question papers are available in the college library.

4.3.7 How are the computers and their accessories maintained? (AMC, etc.,)

- Computers available in the college are maintained by a strong system maintenance group belonging to Department of Technology Services (DTS).
- In addition to that, each department has a non-teaching staff for the respective laboratorys to maintain the systems available in the department periodically.
- The departments have entered into contract for Annual Maintenance (AMC) for UPS.
- ESET NOD32 Antivirus is also procured and installed in all Servers, desktops and Laptops for the maintenance of computers in the college.

4.3.8 Does the College avail of the National Knowledge Network connectivity directly or through the affiliating University? If so, what are the services availed of?

No. But the college is availing various services through our library in which our college subscribes for

- IEEE ASPP e-Journals.
- Elsevier journal(Science Direct)
- ACSE,ASME Journal articles
- ASTM Digital Library
- E books of McGraw Hill Access Engineering
- Springer Journals

4.3.9 Provide details on the provision made in the annual budget for update, deployment and maintenance of the computers in the College?

Budget for the up gradation of the computers will be given by department HODs and the annual budget for networking and maintenance is given by DTS Head. Separate provision is made in the budget for the above in the overall college budget every year.

Utilization in budget for maintenance of computers for the past three years:

S.No	Academic year	Annual Budget for the maintenance of computers	
		Sanctioned amount (Rs.)	Utilised amount (Rs.)
1	2012-13	15,40,000	13,40,000
2	2013-14	15,00,000	13,80,000
3	2014-15	19,00,000	16,97,000

Utilization in budget for purchasing computers for the past four years:

S.No	Academic year	Annual expenses for purchasing computers
		Utilized amount (Rs.)
1	2012-13	85,25,813
2	2013-14	33,89,031
3	2014-15	1,89,76,621
4	2015-16	54,09,000

4.4 Maintenance of Campus Facilities

4.4.1 Does the College have an Estate Office / designated officer for overseeing maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

Yes the college has an Estate Office and designated officers for overseeing to look after the development of campus facilities and its maintenance.

Campus Specific Initiatives for enhancement of Physical ambience:

1. The college has Infrastructure department to look after the development of campus facilities and their maintenance.
2. Lying of Bitumen Road connecting all academic and hostel blocks.
3. Concealed / Underground system for electrical cables.
4. Paver's blocks in the platforms for the pedestrians.

5. Rain water harvesting system.
6. Waste water treatment facility for the entire campus.
7. Vehicle parking system with rain and sun cover.
8. Adequate manpower to maintain the cleanliness of the entire campus.
9. All laboratories, class rooms, hostels, staff quarters and other student amenities are protected with earth leakage circuit breakers.
10. Qualified technicians are employed, further trained to handle unforeseen situations like personal accidents, fire accidents and so on.
11. Provision of exhaust fans, wherever required, to remove fumes and gases.
12. RO plant treated water supply for entire campus.
13. Maintenance of green atmosphere in the campus.
14. Piping connection for provided entire campus

The following departments takes care of maintenance of the infrastructure of the college

Sl.No	Departments	Area
1	Infra-Structure Department (Civil Maintenance)	Maintenance of Class rooms, laboratorys, buildings and Campus development or Vertical, Horizontal exposure
2	Infra-Structure Department (Electrical Maintenance)	Maintenance of all electrical work in the entire campus
3	Infra-Structure Department (Furniture maintenance)	Purchase of new furniture and maintenance of furniture
4	Infra-Structure Department (AC Maintenance)	Purchase off AC, Water cooler , defreezer and maintenance of equipment
5	Water and plumbing maintenance	Maintenance all water lines and to carry out plumbing work in the campus. Bore well pipe line
6	Horticulture	Entire green campus maintenance and development of more green area
7	General maintenance (House Keeping)	Clean the entire campus, class rooms, laboratorys and toilets



Dr. N. Mahalingam Vigyan Bhavan



Green ambience of KCT campus

4.4.2 Does the College appoint staff for maintenance and repair? If not, how are the infrastructure facilities, services and equipment maintained? Give details.

Yes, the college appoints staff to look after the maintenance and repair services. The following are the details of various departments:

SI.No	Facility / Service	In-Charge	Supporting Staff head
1	Power Supply – EB, DG sets, solar power	Head infra structure	Electrical Manager
2	Water Supply, River water, Bore well	Head infra structure	Sr. Engineer
3	Reverse Osmosis (RO)	Head infra structure	Sr. Engineer
4	Sewage water treatment	Head infra structure	Sr. Engineer
5	Transport Services	DGM	Transport officer

6	Hostel & Mess	DGM	Mess Manager, Head of Hostel administration
7	Dispensary	DGM	Residential Doctor, Nurse, Laboratory technician
8	Building, Repair, Maintenance	Head infra structure	Sr. Engineer, Civil Supervisor
9	Furniture Maintenance	Head infra structure	Sr. Engineer
10	AC Maintenance	Head infra structure	Electrical manager
11	Bank / ATM	Manager, Bank	Staff, bank
12	Computer system and networking	DTS Manager	Support Manager
13	Security Service	DGM	Security guards
14	Fire extinguisher	DGM	Safety officer



Swami Vivekananda Study Center



Mahatma Gandhi Study Center



iQUBE



Parking facility at west gate



KCT Hostel



KCT Waste water treatment plant



Solar water heater facility at Hostels



Water purification system



FORGE-Technology Business incubator



Medicinal garden at KCT

Any other additional information:

Management Information System (MIS):

Management Information System was developed to automate the student related and faculty related processes involved in teaching. Various features associated with MIS are

- Automation of student's attendance.
- Viewing the attendance percentage of students in individual subjects.
- Automation of internal mark entry.
- Generating reports for internal tests.
- Communication to parents via SMS.
- Generation of various reports.
- Automation of faculty leave process.
- Viewing faculty attendance.

This software helps in reducing the manual work and it provides transparency in handling the student information.

Examinations at KCT

- **Conduct of Central and State Government Examinations**
  - Government of Tamil Nadu and Anna University have approaches KCT periodically for providing centre facilities for conducting public exams. They prefer our College since we are the bigger institute in this location (Saravanampatti, Ganapathy area) and also known to the public with easy access. The exams are generally conducted on Sundays and Holidays. We are requested to conduct online and written examinations. The office of the CoE will be in-charge for the conduct of above examinations. For written examinations, the hall facilities and invigilators are appointed by CoE. For online examinations, the Computer laboratory facilities, invigilators and technical persons are jointly fixed by DTS team and CoE.

- **Online Test**
  - In house project developed by DTS and supported by CoE team. This online test contains 50 objective types questions includes text and images. The formation of the questions is random question and random choices. The time duration of the test is two hours. After the completion of online test the result is immediately published in web browser.

- **Automation of Dummy Number and OMR based Evaluation**
  - All the internal test and end semester examination answer papers are dummy numbered and evaluated with OMR. The Fireeye scanner is a 3 in 1 Automatic Dummy Numbering Scanner which prints the number, scans the booklet and capture the image with the data. The image of the top page of the answer book is captured in the system along with OMR and barcode data.
  - After evaluation, the mark sheet is scanned using an OMR scanner and a database of dummy numbers with marks is created. After a check list which avoids transcribing errors, the final results file is prepared by merging it with the first data base of dummy number to roll number subject wise.

- **Student corner**
  - It is an in-house project developed by DTS and supported by CoE team. This project contains student details (photo, roll number and name), internal marks, attendance percentage, seating arrangement and end semester result.

CRITERION V: STUDENT SUPPORT AND PROGRESSION

Kumaraguru College of Technology is catering to the needs of students belonging to various genres. The success rate of students is high comparing to other Institutions. The students are given opportunity to express their views about academic and additional requirements. The suggestions given by the students for improving the curriculum were considered and relevant measures were invited to revise the curriculum as per the needs of the students.

Academic and career counselling

1. **Academic counselling**
    - The class advisors will be allotted for a particular class throughout their period of study. They have a primary role in providing continuous academic counselling to the students, motivate them and monitor their performance. They will keep track of their academic activities and other curricular activities and encourage them, thereby creating a greater sense of belongingness among the student community.
    - Slow learners are given importance to complete their programme successfully with subtle understanding of the concepts through special classes.
    - Fast learners in the class are identified and they are trained to do additional academic work including the task of solving higher level problems.

2. Fast learners are encouraged to complete the 8th semester theory courses in 7th semester, so as to enable them undergo internship for 6 months in industries.

3. **Student Counselling**

Institute has an exclusive office called 'Office of Students Affairs – 'OSA' to cater the needs of students.

Trained Counsellor to guide students:-

- By giving psychological support to the needy students to reduce their anxiety
- To overcome a wide range of problems such as academic and personal problems, home, family, relationships, depression, anxiety and loneliness so that, they will be motivated to overcome fear and go on with life.

Ward counsellor:-

- Batches of about 24 students are assigned to each faculty member of the department.
- The faculty member addresses and responds to all the academic and non-academic challenges of the students.
- The students are encouraged to participate in various activities which enhances their skills and foster holistic personality development.

4. Career Counselling

- Students are motivated to appear for GATE, BEC, GRE, TOEFL, IELTS etc., in order to advance in their career.
- Special counselling is provided to enable students to perform better in interviews. Training is also provided to draft customized resumes. In addition, students undergo training with the goal of improving their verbal and written communication skills in interviews, to enable them to interact with others and to contribute meaningfully during group discussions, and for overall personality development.
- The students are encouraged to develop their management and organizing skill through various club activities and functions viz (i) YUGAM – a splendid techno-social and cultural event, (ii) E-Week – an event organized every year in association with the National Entrepreneurship Network (NEN) to focus the attention of students on the wide entrepreneurial opportunities available in the current scenario.
- Office of student affairs is exclusively functioning for student supporting activities.

5. Financial Aid

- The Institution provides financial aid in the form of Mahatma Gandhi merit scholarship every year and fee concession for needy students.
- The Institution helps student to apply for financial aids from other private Trust in the form of scholarships and also can avail loan from nationalized banks.
- The Institution helps student to apply for financial aids from Central Government, State Government and quasi government organizations.

6. Placement and Entrepreneurship Cell

The Institution has (i) Placement Cell and (ii) League for Entrepreneurial Empowerment and Development (LEED).

- Placement Cell: Empowers the students to face Interviews with multi-national companies and have created job opportunities for 4000 + young students in the last 5 years through On-Campus programmes.
- League for Entrepreneurial Empowerment and Development (LEED): It helps the students to develop their managerial skills.

7. Alumni Association

The Institution has got considerable number of registered Alumni who are holding key positions in organizations at the national and international levels. Annual meet is conducted for interaction between current students and alumni. The association provides counselling and guidelines to socially disadvantaged group of students hailing from rural areas.

8. Extracurricular activities

Physical Education Department, NCC, NSS and Club activities support the students for holistic development.

5.1 Student Mentoring and Support

5.1.1 Does the College have an independent system for student support and mentoring? If yes, what are its structural and functional characteristics?

Yes; the college has an independent system for student support and mentoring.

- The Institution level units are the Office of Student Affairs (OSA), Discipline and Welfare Committee, Complaints cum Redressal Committee, Anti Ragging Committee, Mentoring and Counselling Forum, Internal Complaint and Women Empowerment Committee, Training and Placement Cell, Committee for SC / ST, Values & Ethics Committee. At department level, the students are monitored by class advisors, tutors and ward counsellors.

To cater the needs of over 6000 students it is important to have supporting body (OSA) and it is essential to work hand in hand with many existing bodies and faculties by focusing on their Academic support, Mental, Physical and Spiritual well being.

(i) Co - Academic Support

- There are 28 different clubs for enabling students to focus on various exposures. OSA coordinates all the club activities.

(ii) Student Counselling Support:

Being emotionally well is more important handling stress. It also involves being attentive to your thoughts, feelings, and behaviours. The Office of Student Affairs will help students in need with proper counselling.

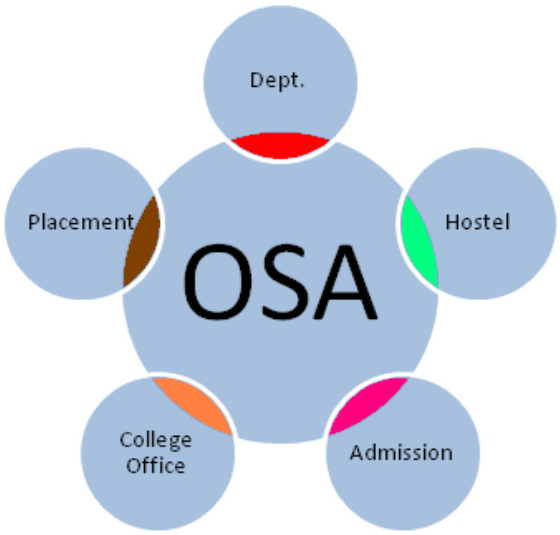
(iii) Physical wellness :

Optimal physical wellness is developed through the combination of beneficial physical activity/exercise and healthy eating habits. The Office of Student Affairs strives to organize events, conduct social camps, invited expert talks emphasizing on Physical Health.

(iv) Ethics & Values:

The Office of Student Affairs in association with Department of Human Excellence organizes events, invited talks and camps to emphasise the importance of ethics and human values of all students.

The structure of OSA is shown inFig.5.1.1



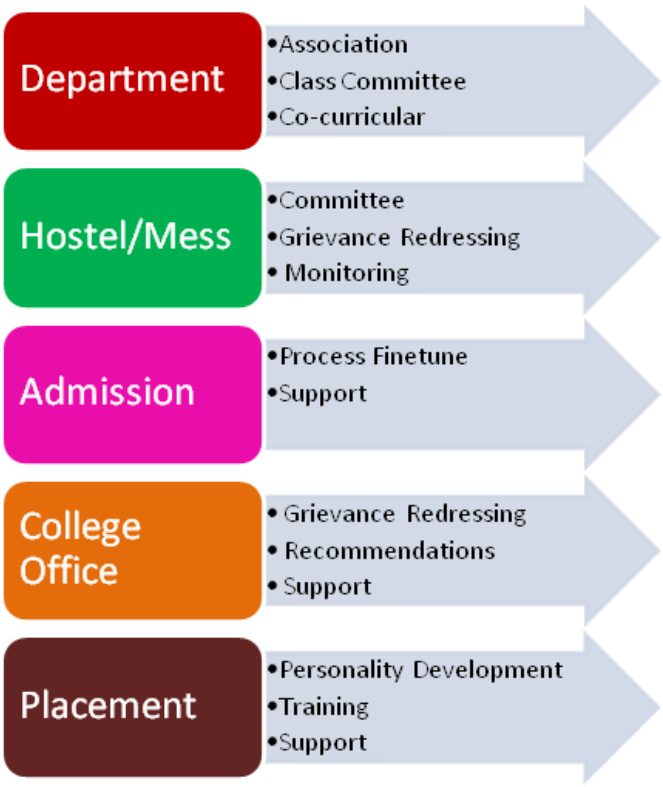


Figure.5.1.1 Organization and Functions of OSA

5.1.2 What provisions exist for academic mentoring apart from class room work?

KCT has envisioned the need for training the students apart from the routine class and offers much cognizance in:

- The students are encouraged to participate in co- curricular events (inter and intra) which includes project designs, paper presentations, seminars, workshops, technical events etc. This will help them to get subtle knowledge of the subjects.
- The college also facilitates the departments in conducting Guest Lectures by Academicians, Industrialists, Entrepreneurs, Hands-on Training and Workshops on Recent Trends and Developments in the Technical Arena for the students.
- Industrial Visits are organized for students to get more interest and insight into what they study theoretically.
- The college have a scheme of Accelerated Mode, by which the students can complete the 8th semester theory courses earlier by mid- semester, after which they are allowed to go for Internships in the Companies for the remaining term. This has helped the students to get an industry experience prior to their graduation. So far, about 70% students are undergoing internships every year.

- The students are provided with an option to register for One-Credit Course/Technical Electives, based on their preferences/wish.
- The college insists the students to be a part of various Professional Bodies, and aids in the student related activities. For Example, IEEE, ISTE, CSI, IE (I) Student Chapters have been actively working with the student members in organizing technical activities such as lectures and technical paper presentation contests.
- Technical Certification Courses from professional bodies are being facilitated for students, after their class hours. This helps them in being a Certified Professional in their domain.
- Special Coaching Classes are conducted for the students, to enable them appear for competitive exams like GATE after regular class hours by the faculty members. The students are constantly provided with lectures and practice test series.
- Faculty members motivate students to take up competitive examination of their career penchant.
- The college has its Technology Incubation Centre namely i-Qube, which aims at students working on their ideas to see it as a product. It has an R&D laboratory, where the students can experiment their idea with the available resources that are available in the laboratory. Outstanding ideas and projects are funded by KCT to complete a prototype model.
- Following the Class Committee Meeting, Tutor Ward Meeting, Internal Test Result Analysis, the slow learners are identified and remedial classes are conducted for them after 4.30 PM.
- The Advance Learners are being provided an arena to get into Fast Track Mode, by which they can complete the 8thsemester theory courses prior by 7th semester. This will captivate them to undergo industry internships/projects during whole of their 8th semester, thereby gaining an industrial experience before their graduation.

5.1.3 Does the College provide personal enhancement and development schemes for students? If yes, describe techniques employed e.g., career counselling, soft skill development, etc.

Yes, the college has various units/organisations involved in the personal enhancement and developments of the students. They are described below:

- Placement Cell:

The college has a training and placement cell headed by a Placement Officer, faculty and student coordinators. The cell arranges training programs such as facing interview, group discussions etc. The forum also invites HR managers from different industries to conduct training programs for the students.

In addition, the Departments have their own placement and career guidance cell. The objective of this forum is to prepare students for organizations as well to take up higher studies. In addition, focus is even given to emerge as an entrepreneur. Further, for students of all years, one period/Week has been allotted for "Aptitude" Coaching, in their Class Time table. This helps them for their continuous improvement process.

- Language Learning Centre (LLC)

  The College placement cell has launched this initiative to teach Hindi to the students.

- Entrepreneurship Development Cell

  KCT Entrepreneurship Development Cell hailed as LEED was established in order to bring out the entrepreneurship spirit among the students. The LEED Cell organizes E-week every year in association with the National Entrepreneurship Network (NEN) to focus the attention of students on the wide entrepreneurship opportunities available in the current scenario. The cell also organizes department level motivational lectures by inviting leading industrialists and entrepreneurs from various fields. A student start up "Namma Cafe" in the college stands as a testimony to these forums.



View of 'Namma Cafe'- KCT

- KCT Sandhai:

  KCT Sandhai is an annual marketing trade fair organized by the LEED club of the college, which gives marketing opportunities to KCT students in collaboration with small scale vendors and cottage industries in college campus.

- Angadi

  Angadi is a student organized Trade Fair, which hones the knowledge and skill of the students in three ways – one, it nurtures the entrepreneurial spirit of the students through investments and running a small business; second, it develops the marketing skills of the students through positioning their products,

understanding the competition, promotion schemes and pricing. Thirdly, it advances the event management skills of the students.

- Industry-Institute Partnership Cell (IIPC)

  This cell helps in imbibing in-plant training / internship to students and arranging industry and public sector sponsored project assignments for students. By this way, it is aimed to synergize the academic skills of the students with the needs of all types of industries.

- Language Laboratory

  The Language Laboratory is used for providing language tutorials to all the students, for developing language skills. This facility helps the students in achieving mastery over English through word games, quizzes, extempore, debates and preparation for BEC of Cambridge University.

  Also, for all students, "Communication Skills Laboratory" has been a part of their curriculum, where they are trained and evaluated in all the four areas namely Listening, Speaking, Reading and Writing skills.

- Department of Human Excellence

  This is an effective human resource development program, under which, classes on human values are conducted as part of the curriculum from the first year of study. It includes teaching yogasanas, inculcating personal, family, professional, social, national and global values in the minds of the students. This helps the youth to unfold their hidden potentials and achieve excellence in every field of life.

- Career Orientation
- The College Placement Cell helps each department in organizing a "Career Day" Programme for their II Year students. This programme aims at creating awareness about various career opportunities available after their graduation and the method of preparedness for the same. This kind of programme will be an eye-opener for the students at the well-advanced level, thereby making him/her to choose the domain of their interest and skill and focus on it.
- Training for Competitive Examinations

  The Institution is keen on placement of the students on right track of their career option. In this regard, motivational speeches, training classes are organized for the students to appear for examinations like UPSC/TNPSC/IBPS/SSC/Other banking Exams.

- Studio KCT

  The college has a Studio, with higher end DSLRs, a room lighted up perfectly with classy editing software and systems. A bunch of student volunteers, are involved in this set up. This forum acts as a platform to engage the creative passion of students, to study and practice hi-tech technology through photography.

- Bridge Courses

  Special Courses highlighting the basic science and humanities concepts required for engineering field are refreshed for I Year Students and lateral entry students. This helps them to get updated to the domain specific concepts and be prepared for the technical classes.

To expose and enrich various capabilities of the students the following 28 clubs are functioning in the college:

Table 5.1.1: List of Clubs

S. No	Club	S. No	Club
1	Tamil Mandram	15	Sahitya Club
2	Rotaract Club of KCT	16	Namadhu Pangu
3	Gandhian Youth Movement	17	Road Safety Patrol
4	Dance Club	18	YRC
5	LEED & Namma Café	19	KIC
6	Nature Club	20	NCC – Air Wing
7	VBC	21	NCC – Army Wing
8	Music Club	22	NCC – Girl Wing
9	Qubate Club	23	HAM Club
10	NSS	24	SEDS
11	RRC	25	Agam Club
12	Studio KCT Club	26	KCT Bikers
13	Varnam Club	27	KCT Coding Club
14	HAASYAA Club	28	KCT Gaming Club

5.1.4 Does the College publish its updated prospectus and handbook annually? If yes, what are the activities / information included / provided to students through these documents? Is there a provision for online access?

Yes, College publishes KCT Calendar, KCT Konnect and Pinnacle which has online access and contains the following details

- Vision, Mission and Quality Policy of the Institution
- Contact details
- UG and PG programmes offered and list of various approved research centres
- College rules and regulations which includes classroom manners and laboratory manners,
- Women Empowerment Cell and its objectives,
- Examination rules, grading and its classification
- KCT Counselling Services and various other services to ensure the well-being of the student
- Facilities of the college like Medical Centre, Bank with ATM, Auditorium, Seminar Halls, Meditation Centre, Students Book Store , Hostel, Reprography, Purified drinking water, Transport services, Gym complex etc.,
- Library facilities including digital library which provides online access services for educational, research and developmental activities
- KCT TIFAC CORE
- Various departments undertaking career and skill development activities
- Co-curricular , extracurricular activities like NCC, YRC, Road Safety Patrol, Blood Donor Club and various clubs which aims to bring the students hidden talents, critical thinking, self confidence.

5.1.5 Specify the type and number of scholarships / free-ships given to students (UG/PG/ M.Phil/ Ph.D./Diploma/others in tabular form) by the College Management during the last four years. Indicate whether the financial aid was available on time.

The College Management is motivating the meritorious students by providing Mahatma Gandhi Scholarship on various categories (OC, BC, MBC and SC/ST). The top 10 rank holders in each class of B.E./B.Tech, and top 3 rank holders in each class of M.E/M.Tech and MBA/MCA are given Rs 10,000/- every academic year. 1021 students of B.E/ B.Tech, M.E/ M.Tech and MBA/ MCA were benefited during 2014-15 with a scholarship of Rs. 1.02 Crores. The number of students benefited for each year with scholarship amount is given below:

Table 5 .1.2: Details of Mahatma Gandhi Scholarship

Academic Year	Total number of students	Total scholarship Amount in Rs. (Lakhs)
2011-2012	739	66.47
2012-2013	843	84.40
2013-2014	947	94.70
2014-2015	1021	101.80

In addition to the above, management supports the economically weaker students with fees concession.

- Best outgoing students and Best project awards are given in the Founder day function.
- Fees Concession for economically weaker students is provided by the Management.

Table 5.1 .3: Details of Fee Concession

S.No.	Year	No. of Students
1.	2011 - 2012	8
2.	2012 - 2013	4
3.	2013 - 2014	11
4.	2014 - 2015	15

5.1.6 What percentage of students receives financial assistance from state government, central government and other national agencies? (e.g. Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)

Tamil Nadu government provides SC/ST/BC/MBC scholarship and first graduate fee concession every year.

Table 5.1 .4: Details of Government Scholarship

S.No.	Year	Percentage of students received financial assistance
1.	2011-2012	1725/4319=39.9
2.	2012-2013	2121/5012=42.3
3.	2013-2014	2468/5586= 44.1
4.	2014-2015	2925/6006= 48.7

Table 5.1 .5: Source of financial assistance and amounts

Year		2011-12		2012-13		2013-14		2014-15	
Sl No	**Name of the Scholarship**	**Nos.**	**Amount in lakhs (Rs.)**	**Nos.**	**Amount in lakhs (Rs.)**	**Nos.**	**Amount in lakhs (Rs.)**	**Nos.**	**Amount in lakhs (Rs.)**
1	BC / MBC Welfare Scholarship	946	40.3	930	39.5	1114	73.3	1167	79.2
2	SC / ST – GOI Post Matric Scholarship	204	30.3	307	33.7	390	43.4	449	50.3
3	First Graduate	575	115.0	884	176.8	964	192.8	1309	261.6

5.1.7 Does the College have an International Student Cell to cater to the needs of foreign students? If so, what measures have been taken to attract foreign students?

An Autonomous Centre named International Network for Knowledge (INK) with a vision of Global Knowledge Sharing consists of network of professionals, higher education mentors and students at Singapore, Germany, USA, UK, Australia, India and UAE. INK is focusing on development of a cluster with INK associated universities/Institutions and industries fostering global collaborative programs in the educational sector.

5.1.8 What types of support services are available for Overseas Students / physically challenged / Differently Abled Students?

At present, foreign students are not enrolled.

Physically challenged / differently able students:

Ramp is provided in buildings wherever possible, to help them to climb stair-cases. Class room and hostel accommodation are arranged in the ground floor of the respective buildings to help the physically challenged students. Duration of examination is extended for students depending on their disability based on special request. Lifts are provided in learning centers such as Library and specialized laboratorys.

SC/ST, OBC and economically weaker sections:

- Mahatma Gandhi scholarship is provided by the management
- Book bank is available for references
- Fees Concession for economically weaker students, is provided by the management

Every year SC/ST, OBC and first graduate students receive scholarship from the state government.

Students to participate in various competitions/conferences in India and abroad:

Students are motivated and financial assistance is also provide to participate in Design Competitions Sports Event and paper presentations in conferences at National and International Level such as **BAJA SAE INDIA** – Fabrication and Racing Event, **SUPRA SAE INDIA** – An Automotive Design Event, **GO-KART** - Automotive Design Challenge Event, **EFFI-CYCLE** - Design and fabrication of three wheel vehicle configuration event, **TI Innovation Challenge 2016** – Design Contest, **QUADRAPED** – A robotic design event, ***NIYANTRA*** - an annual Graphical System and Design contest organized by National Instruments ,National Level Engineering Students Innovation Contest organized by Project Development & Management Association (PDMA) and Auto Expo. Further students are regularly participating in technical events conducted by reputed academic Institutions such as Festember in NIT, Sarang in IIT, SASTRA conducted by IIT-Madras and Kurukshetra conducted by Anna University. Attendance flexibility is also provided for students participating in various events wherever possible.



A product from KCT – Garage

Health Centre and Health Insurance:

A Health Centre, Arutjothi Medical centre is functioning in the campus. A duty doctor is available in the health centre.



Arutjothi Medical Center

Medical insurance scheme is available for the students to meet the emergency requirements

Skill Development (Spoken English, Computer, etc.)

The CALL HUB is a full-fledged language laboratory that comprises CLARITY and RENET study skills module of Young India Films Educational System. The main console is connected to 75 listening booths which have been specially designed for student-teacher interaction. The laboratory also has a large number of cassettes and books for all levels. The language laboratory is used for language tutorials. The students of all engineering courses attend these, besides the students who voluntarily opt for remedial English classes. The language laboratory facility is also used by the students in achieving mastery over English through word games, quizzes, extempore, debates and preparation for BEC and IELTS examinations of British Universities.

Kumaraguru Innovators Club (KIC)

The KIC is a student initiative in KCT towards innovation, started in the year 2013 exclusively for I year undergraduate students. It is unique of its kind in our campus. The members work towards learning new technologies through innovations which would be beneficial to the society. The vision of the club is to ENCOURAGE INNOVATORS. Further, it also aims to build the ideas into a prototype.

With respect to computer literacy all programmes have basic computer courses in the curriculum itself.

Exposure of Students to other Institutions of higher learning's/ corporate houses/ business houses:

Summer and winter trainings / internships are arranged through placement cell and academic departments. Industrial visits and field trips are regularly scheduled in every semester for all UG/ PG students.

Publication of student Magazines:

- Newsletters /Magazines are published by the technical societies of different disciplines.
- Publications during symposium
- Association related publications

5.1.9 Does the College provide guidance / coaching classes for Civil Services, Defence Services, NET/SLET and any other competitive examinations? If yes, what is the outcome?

Yes, the college provides career guidance, motivation to students to take-up civil service, defence service and group examinations conducted by TNPSC. Though coaching classes, guest lectures and informal IAS coaching classes are arranged, support is rendered to hostel students to attend week end classes Gate/GRE/TOEFL /CAT classes apart from IAS/IPS coaching classes.

Details of successful candidates who cleared the various competitive exams are tabulated:

Table 5.1.6: Details of success in competitive examinations

Succeeded in	2011-2012	2012-2013	2013-2014	2014-2015
UPSC	3	1	-	1
TNPSC	-	1	-	1
CAT	-	5	-	-
GATE	-	29	14	18
TANCET	-	17	10	13
TOEFL	-	1	5	5
MAT	3	-	1	3

GRE	2	6	3	9
IELTS	2	4	9	11
NCC-SSCWT	-	-	-	1
INDIAN ARMY	-	-	-	2
INDIAN AIRFORCE	-	-	-	2
NIFT	-	-	1	2



Pictures of Ms. Gayathri, who joined Indian Army

5.1.10 Mention the policies of the College for enhancing student participation in sports and extracurricular activities through strategies such as

*** Additional academic support, flexibility in examinations**

*** Special dietary requirements, sports uniform and materials**

*** Any other**

- On duty is given to attend camps like NCC, NSS, Sports
- Training is arranged to enhance the skills
- Various Clubs are operating for the benefit of students

- Travel and accommodation allowance is provided
- Uniform and sports kits are provided
- Flexibility in internal examination dates

5.1.11 Does the College have an Institutionalized mechanism for placement of its students? What services are provided to help students identify job opportunities, prepare themselves for interview, and develop entrepreneurship skills?

Yes, the College has an Institutionalized mechanism for placement for students. The Placement Cell of KCT plays a vital role by being a platform for Corporate and Young graduates to interact for mutual benefit. Services are provided throughout the year to prepare students and help those secure placements. The number of students placed through campus placement programs is on the inclination curve every year.

Vision

- To initiate the career for all the eligible students of every branches in the core industries
- To impart training to the students in Soft-skills and Aptitude in order to make them industry ready professional

The following training activities are conducted for the students to place in MNCs and Overseas:

- Mock Tests (General & Technical)
- Group Discussions
- Mock Interviews
- Aptitude Training
- Personality Development Programmes
- Industrial visits
- Industrial Training (for 2nd, 3rd and 4th years)
- Technical Seminar / Workshops
- Project Internships
- Infosys Campus Connect Course
- Industry Sponsored Technical Events

Furthermore, the KCT Entrepreneurship Development Cell - LEED organizes E-week every year in association with the National Entrepreneurship Network (NEN) to focus the attention of students on the wide entrepreneurial opportunities available in the current scenario. The cell also organizes department level motivation lectures by inviting leading industrialists and entrepreneurs from various fields.

Career Awareness:

Awareness session is conducted by career skill trainers for B.E/B. Tech/ MCA students. A mock test is conducted on various fields such as placement, higher studies, competitive examinations and others. Students are allowed to choose their desired field of mock test. This test helps the students to understand pattern of the examination, levels of difficulty, skills required etc. A report is also generated and shared to them. This report gives idea on where they stand in the class, among the entire participants etc. Students get to understand the areas they need to focus on. Based on the scores they obtain, students are categorized into – Beginners, Intermediate & Advanced. The curriculum is prepared for every category and then training is imparted.



Career Day Program

Career day is conducted for B. E & MCA. The senior students share their experiences, skills required, expectations and this is an interactive session facilitated by faculty coordinators and PMO. Alumni and experts from industry are also invited to speak on industry expectations. PMO team briefs on various training programs offered, clubs/forum available within KCT to help students edge towards the next step of their career dream. This specific day provides awareness on various career opportunities, career growth etc

Career awareness session is conducted for all B. E / B. Tech & MCA students by career skill trainers. This session provides them an insight of various career opportunities like Placement in IT product/services, Core industry, Competitive examinations, Master's in India/abroad, Entrepreneurship and others.

In-class training program is conducted for B. E / B. Tech & MCA students by career skill trainers. This is a 4 week training program that covers topics on Quantitative aptitude and Verbal ability. This is designed to make students aware on the fundamentals of aptitude so that it will be useful for them to learn advanced concepts during the summer vacation training. 5.1 Annexure I

5.1.12 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus annually for the last four years).

KCT students have excellent campus placement record offered by various companies, due to the skill development and training provided by the placement cell and academic departments.

Table 5.1.7: Placement Details

Year	2011 – 12	2012 – 13	2013-14	2014-15	2015-16*
Students Registered	820	812	887	957	899
No. of Companies Visited	65	65	128	164	*
Students Placed	799	604	687	905	799
Offers Provided	1039	730	925	1405	1282
Percentage of Placement	**98%**	**74%**	**75%**	**95%**	**89%**

*Details are given in **5.1Annexure II**

5.1.13 Does the College have a registered Alumni association? If yes, what are its activities and contributions to the development of the College?

Yes; The College has an Alumni association which is very active in bridging the passed-out students with the college activities. The major activities of the alumni association are as follows:

- Every year the out-going batch of students is inducted into the alumni association.
- The association conducts Decade Meet every year wherein the students

belonging to the batch that completes 10 years successful meet.

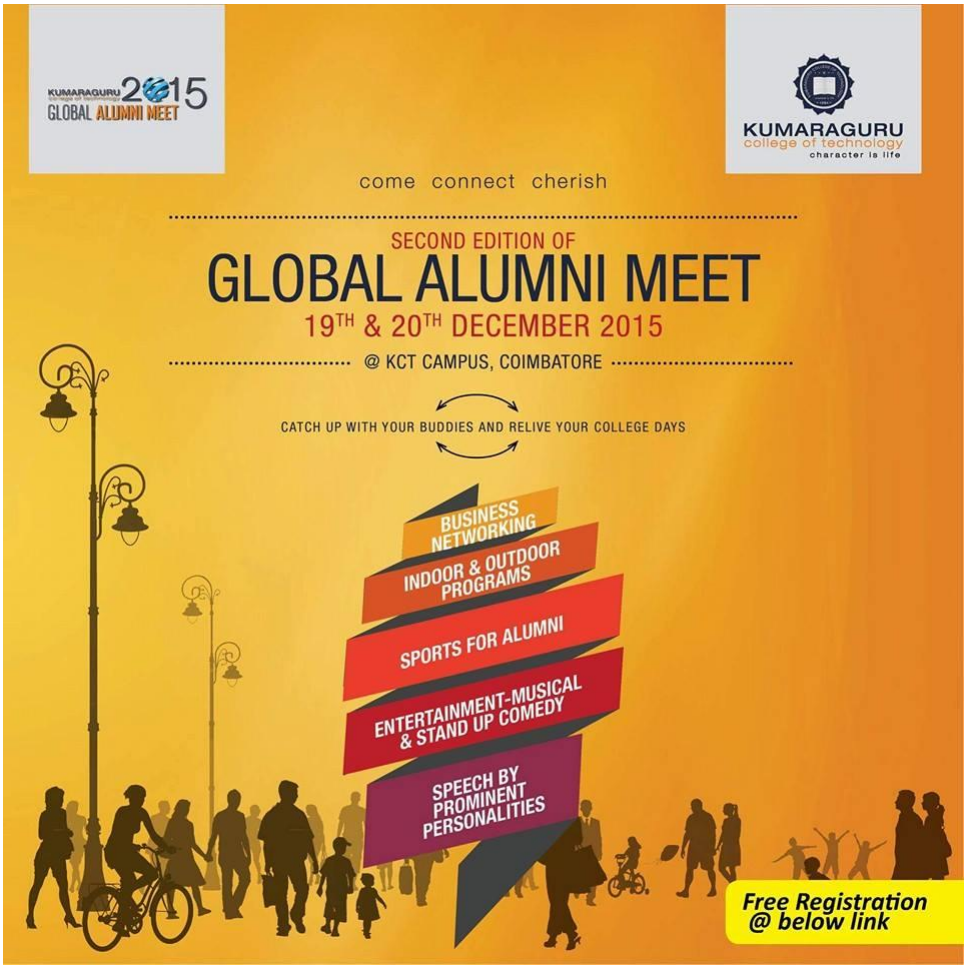
- The USA Chapter of the alumni association was inaugurated by the Principal in June 2015.

Table 5.1.8 Alumni meet Details

KCT Young Alumni Meet 2013	21st December 2013, KCT Campus
Global Alumni Meet 2014	20th& 21st December, 2014 at KCT Campus
Silver Jubilee Alumni Meet of 1986 - 1990 Batch	17th July 2015, KCT Campus
International Alumni Meet – 2015 Reunion	❖ 31st October 2015, Frankfurt, Germany ❖ 1st November 2015, London ❖ 7th November 2015, West Coast, US ❖ 8th November 2015, East Coast, US
Global Alumni Meet 2015	19th& 20th December, 2015 at KCT Campus



KCT Alumni





Events on Alumni Day

The Alumni Association aids in the development of college, by linking the students with the right alumni and is constant in touch with them, to get the following support:

- Active Members for Board of Studies (BoS) & PAB in all the Departments. They help in revamping the existing curriculum suitable to modern needs and advancements.
- Bringing in consultancy projects for the college.
- Technical Assistance for Funded Projects and R&D Work.
- Guidance in preparing the pre-final year and final year students for placements. They conduct Mock GDs, Mock Interviews thereby guiding the students to develop the required skills for placement.
- Assistance in Higher Education in India and abroad.
- Delivering Technical/Non-Technical Guest Lectures.
- Providing financial assistance to economically weak students

5.1.14 Does the College have a student grievance Redressal cell? Give details of the nature of grievances reported and how they were redressed.

Yes. The College has constituted the following cells to address the academic, financial and disciplinary issues.

- Office of Students' Affairs

  As the name stands, this Office takes care of sorting out the issues faced by the students, and directing them to the right person, by solving it.

- Counselling Service Cell

  A Counselling Cell headed by an exclusive Counsellor, helps in addressing the personal or emotional issues faced by the students. The information shared here is maintained confidential, thereby making the students trustworthy in delivering their problem. This way, the students are cleared off from their worries, and realize their full academic and personal potential.

- Department-wise Ward Counselling

  A class of students has been divided into three batches, each headed by a Staff, acting as a Ward Counsellor. Each week, during the allotted time, the students are asked to meet their respective Ward Counsellors. This way, an emotional bonding is created between the students and their Counsellor, thereby helping them in identifying and solving their issues.

5.1.15 Does the College have a cell and mechanism to resolve issues of sexual harassment?

Yes; Internal Complaint and Women Empowerment Committee is functioning in the campus to empower the women staff and students and make them feel secured inside the campus. This Committee monitors all aspects pertaining to girl students and women staff members of the Institution. The objective of the cell is to promote gender equality and gender amity. In addition, the policies mentioned under are followed for girl students:

- In-house hospital with a doctor and nurses are available in the campus 24*7
- KCT Counselling service is provided for the students
- Separate hostel and Mess for girls
- Tutor ward system to assist the academic related activities
- NCC army girls Wing is functioning in the college to empower the leadership quality of girls
- Parents are requested to give a list of authorized visitors/ local guardians with photographs.

5.1.16 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes; Anti Ragging Committee is constituted as per norms, headed by the Principal, involving the following members RDO, Police officer, NGO, Student Counsellor, Faculty members, Parents and students.

Anti – Ragging Cell is effectively functioning in the Institution and no incident was reported by any student to this committee during the past four years. Exclusively 13 Anti-Ragging Squad teams have been assigned to prevent any instances happening within the Institution.

Anti – Ragging Committee activities includes

- Awareness and briefing given to the first year students regarding Anti Ragging committee and the 24/7 Help lines.
- EIBC – Boot Camp is conducted every year for First Year students, during first week of their joining period. At that time, information is given about Anti Ragging Committee and its activities.
- Anti-Ragging Awareness Programme is effectively conducted every year by Police Officials.

- As per UGC norms – working on the process of filling Anti ragging affidavit of all student of KCT.





Anti-Ragging Awareness Programme

KUMARAGURU COLLEGE OF TECHNOLOGY

(An Autonomous Institution)
(Approved by AICTE, Affiliated to Anna University Chennai, Accredited by NBA and NAAC)
Post Box No. 2034 , Coimbatore - 641 049

Ref.: KCT/ANTI-RAG/2013-14/01 Date: 01.08.2013

To

The Assistant Commissioner of Police
Law and Order (East), Coimbatore City Police
Coimbatore – 641 018.

Dear Sir,

Sub : Constitution of Anti-Ragging Committee – details furnished – reg.
Ref. : Your letter No.C.No.56/Memo/AC L&O(E)/09, dated 27.6.2009.

With reference to your letter cited in reference above, we have constituted the Anti-Ragging Committee of Kumaraguru College of Technology, Coimbatore for the year 2013 - 14 as per the Guidelines communicated.
The committee consists of the following members:

1.	Dr.R.S.Kumar	Principal, Kumaraguru College of Technology, Coimbatore.	
2.	Mr.Gunasekaran	Revenue Divisional Officer, Coimbatore - Mobile : 94450 00442	
3.	Mr.A.Murugasamy	Assistant Commissioner of Police, East (Law & Order), Coimbatore City Police - Mobile : 94454 92211	
4.	Prof.K. Saravanan	Associate Professor - Textile	Representative of faculty members
5.	Prof. (Gp. Capt.) INS Rao	Prof. & HoD/Aero	
6.	Mrs. Uma Maheswari	M/o. M.Vignesh, 3rd Year Mechanical 48A, Janatha Nagar West, Saravanampatti Post, Coimbatore – 641 049. Mobile : 97886 10956	Representatives from Parents Association
7.	Mr.S.Kanagarajan	F/o.K.Navin,Final Year Mechanical 49, Ravindranath Tagore Road, Maniakarampalayam Road Coimbatore – 641 006. Mobile No.9487747781	
8.	P.Mahendran	I year B.E. – Mechanical Engineering	Representatives of students belonging to 1st year
9.	S.Sandya	I year B. Tech. – CSE	
10.	M.Vivek	II year B.E. – Textile Technology	Representatives of students belonging to 2nd year
11.	R.Anu	II year B.E. – Fashion Technology	
12.	J. Naveen	III year B.E. – Aeronautical Engg.	Representatives of students belonging to 3rd year
13.	M.R. Rabana	III year B.E. - Civil Engineering	
14.	B. Gopi	IV year B.E. - Mechanical Engg.	Representatives of students belonging to 4th year
15.	G. Pradepa Sri	IV year B.E. - E.C.E..	
16.	Mr.C.V.D'Cruz	Student Welfare Officer	Representatives from Non-Teaching
17.	Mrs.Thenmozhi Rajaram	Officer Counselling	

This is for your kind information.

Thanking you,

Yours faithfully,

PRINCIPAL

Copy to : All the Members of Committee (17)

Due to the awareness given to the students and functioning of Anti Ragging Committee, no incident of ragging was reported.

5.1.17 How does the College elicit the cooperation from all stakeholders to ensure overall development of the students considering the curricular and co – curricular activities, research, community orientation, etc....?

- Class Committee Meetings are used as a tool to identify the needs, expectations, along with the grievances of the students, which will result in continuous improvement of teaching learning process.
- The Board of Studies meeting is held department wise to make the necessary changes and updates in the Curriculum and Syllabi. It is ensured that the stakeholders like Alumni, Industrialist, and Parents are invited to this meeting, to get their valuable inputs for framing them.
- Monthly meetings are conducted with the Parents, to inform their ward's performance and to know their expectations about deliverance of lecture.
- The Industry-Institute Partnership Cell of the college helps in imparting in-plant training to students and arranging industry and public sector sponsored project assignments for students. By this way, it is aimed to synergize the academic skills of the students with the needs of all types of industries.
- The college organizes Global Alumni Meet (GAM) every year, thereby forming a network of Alumni and they are made a part of various developmental activities of the college like creating a Industry hub, bringing Consultancy Project, Guiding the Students, Internships and Projects etc.



A Day with DC (Dilip Chhabria)

5.1.18 What special schemes/mechanisms are in place to motivate students for participation in extracurricular activities such as sports, cultural events, etc?

- The students are given on duty option to take part in sports, cultural and other extracurricular events.
- The students are given the ownership in organizing the events, which makes them more interested both in conducting and participating in the future.
- For those students, who participate in the events are given special permission to write the Internal Test/Model Test, in case the test date co-relates with that of the events.
- Ward Counsellors takes special interest in making their wards to participate in the other events by continuous motivation.
- Students are given chance to interact with successful personalities in different areas like Sport, Cultural activities, which will influence them to participate in different events.
- The various clubs of KCT stays back after 4.30 PM to 6.00 PM, thereby providing the students the needed help to participate in the extra - curricular events. The transportation facilities are also available.

5.1.19 How does the College ensure participation of women in 'intra' and 'inter' Institutional sports competitions and cultural activities? Provides details of sports and cultural activities in which such efforts were made?

- The Physical Education department has a woman physical director to motivate the women students in sports and cultural activities and they motivate the girl students and ensure their participation in good numbers.
- Swagatham and Yugam are intra-level cultural events and all students are motivated to participate in any inter–cultural events.
- Girl students also participate in all cultural and sports activities on par with male students.
- List of sports events participated by girl students at inter and intra-level:
    - International - PARTILLE CUP, world largest Handball Tournament
    - International Karate Championship
    - Karate Championship held at Talkatora Indoor Stadium, New Delhi
    - Karate National Senior Championship
    - Tamilnadu Inter Engineering Sports (TIES)

- KCT Sports Fest/League
- SIICAA
- Coimbatore Erode Nilgiri Tiruppur Inter Engineering Sport (CENTIES)



Republic Day Celebrations



Cultural Events

5.2.1 Provide details of programme-wise success rate of the College for the last four years. How does the College compare itself with the performance of other autonomous Colleges / universities (if available)

Overall - UG - Students Progression / Success Rate

S. No	UG / PG	Graduating Year	No. of Students Admitted	No. of Students Graduated	Success Rate (%)
1	UG	2014 - 15	1131	1023	90.45
2	UG	2013 - 14	956	892	93.31
3	UG	2012 – 13	898	868	96.66
4	UG	2011 - 12	834	805	96.52

Overall - PG - Students Progression / Success Rate

S. No	UG / PG	Graduating Year	No. of Students Admitted	No. of Students Graduated	Success Rate (%)
1	PG	2014 - 15	490	430	87.76
2	PG	2013 - 14	430	416	96.74
3	PG	2012 – 13	364	358	98.35
4	PG	2011 - 12	310	300	96.77

S.No	UG/ PG	Name of the Programme	2014-15 (%)	2013-14 (%)	2012-13 (%)	2011-12 (%)
1	UG	B.E Aeronautical Engineering	77.02	100	100	95.55
2	UG	B.E Automobile Engineering	88.5	NA	NA	NA
3	UG	B.Tech Bio-Technology	93	98	98	98
4	UG	B.E Civil Engineering	88	93	90.1	98.4
5	UG	B.E Computer Science & Engineering	88.5	93	93.9	96.8
6	UG	B.E Electrical and Electronics Engineering	100	94	98	100
7	UG	B.E Electronics and Communication Engineering	92.2	90	96.2	97
8	UG	B.E Electronics and Instrumentation Engineering	94.5	85.7	96.9	100
9	UG	B.Tech Fashion Technology	93	85	100	100
10	UG	B.Tech Information Technology	81	86	100	92
11	UG	B.E Mechanical Engineering	93	100	93	100
12	UG	B.E Mechatronics Engineering	98.6	98.6	92.2	95.3
13	UG	B.Tech Textile Technology	93.1	95.7	98.5	84.4
14	PG	M.Tech Biotechnology	100	100	100	100
15	PG	M.E Structural Engineering	100	94	100	100

16	PG	ME Computer Science Engineering	100	100	100	100
17	PG	M.E Power Electronics and Drives	100	100	100	100
18	PG	M.E Embedded Systems	100	100	100	100
19	PG	M.E Applied Electronics	94.4	100	100	100
20	PG	M.E Communication Systems	100	100	100	100
21	PG	M.Tech Apparel Technology	100	92	100	100
22	PG	M.E Industrial Engineering	100	100	100	100
23	PG	M.E Energy Engineering	100	100	100	100
24	PG	M.E CAD/CAM	100	100	100	100
25	PG	M.Tech Textile Technology	100	100	100	100
26	PG	MBA Management Studies	85	93.5	97.2	90
27	PG	MCA Computer Applications	94	96.6	94.7	96

College is ranked 9th among engineering colleges in Tamil Nadu for Tamil Nadu Engineering Admissions (TNEA) and occupies 2nd rank among self support Institutions.

Comparison with peer Institutions shows that Kumaraguru College of Technology is consistently on par with top ranked Institutions.

5.2.2. Provide the percentage of students progressing to higher education or employment (for the last four batches) highlight the observed trends.

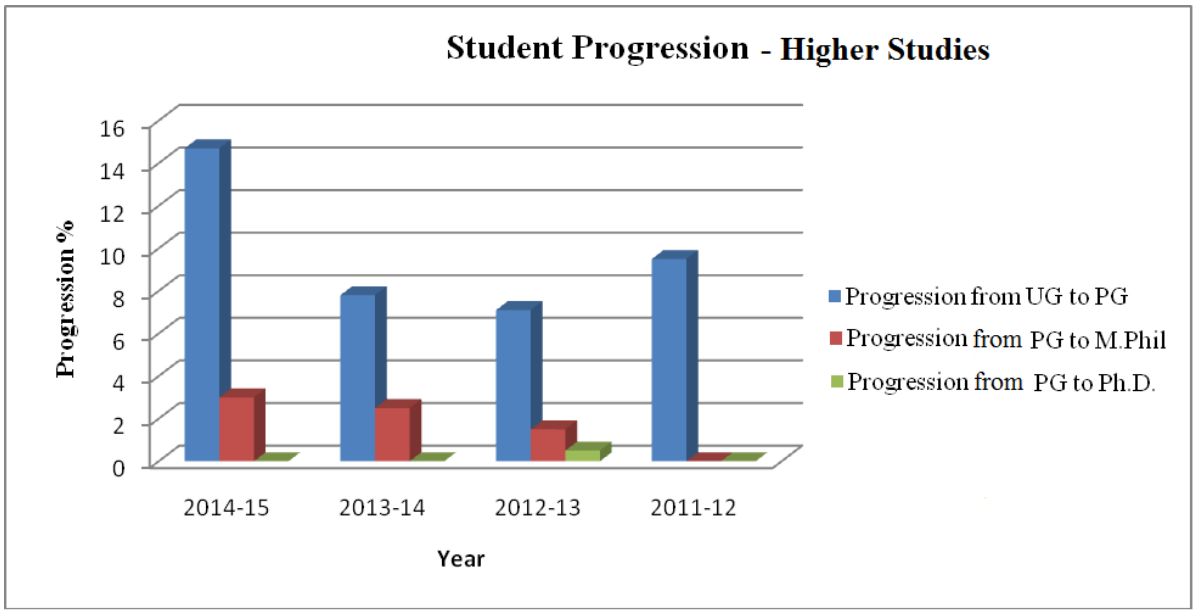
Institution has shown consistently progressive growth in students' progression to higher studies and employment across all departments during the period of review. The Institution is consistently putting efforts in enhancing students' competitiveness in career and in higher studies. Students are motivated and facilitated to appear for competitive examinations like UPSC, GATE, Defense services, CAT, MAT, GRE etc.

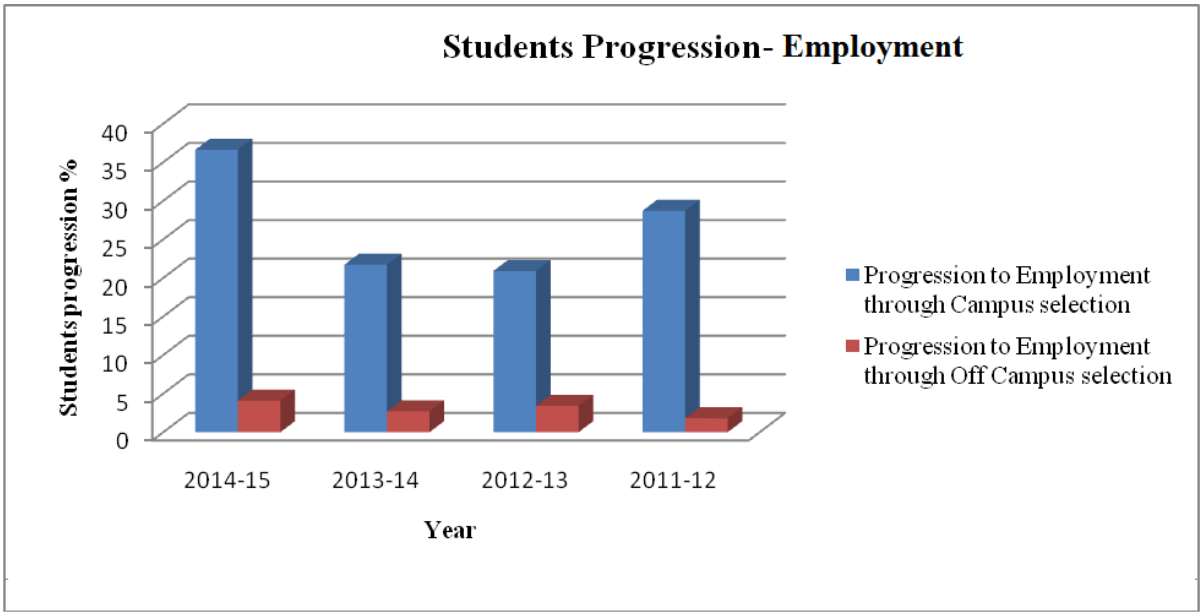
The Institution has International Collaboration Cell which assists students who are opting for higher studies in foreign universities.

Institution has an innovative concept **"Super 60"** which motivates the students to aspire for dream career options which are way above the regular placement opportunities offered to the students.

Student Progression	Percentage against Enrolled			
	2014-15	2013-14	2012-13	2011-12
Progression from UG to PG	14.7	7.8	7.1	9.5
Progression from PG to M.Phil	3	2.5	1.5	NA
Progression from PG to Ph.D.	Nil	Nil	0.5	Nil

Progression to Employment through Campus selection	36.6	21.7	20.9	28.7
Progression to Employment through Off Campus selection	4.1	2.7	3.4	1.8





5.2.3 What is the Programme-wise completion rate/dropout rate within the time span as stipulated by the College/University?

Time stipulated by College – 4 years / 8 semesters for UG

Time stipulated by College – 2 years / 4 semesters for PG

S.No	UG/ PG	Name of the Programme	2014-15		2013 - 14		2012 - 13		2011-12	
			Completion Rate % (within stipulated time span)	Dropout Rate %	Completion Rate % (within stipulated time span)	Dropout Rate %	Completion Rate % (within stipulated time span)	Dropout Rate %	Completion Rate % (within stipulated time span)	Dropout Rate %
UG PROGRAMME										
1	UG	B.E Aeronautical Engineering	80	7	79.7	14	93.9	6	95.5	4
2	UG	B.E Automobile Engineering	86.5	4.1	NA	NA	NA	NA	NA	NA
3	UG	B.Tech Bio-Technology	93	Nil	98	Nil	98	Nil	98	Nil
4	UG	B.E Civil Engineering	88	12	92	8	96	4	98	2
5	UG	B.E Computer Science & Engineering	88.5	11.5	93	7	93.9	6.1	96.8	3.2
6	UG	B.E Electrical and Electronics Engineering	100	Nil	100	Nil	100	Nil	100	Nil
7	UG	B.E Electronics and Communication Engineering	92.2	7.8	90	10	96.2	3.8	97	3
8	UG	B.E Electronics and Instrumentation Engineering	94.5	1.37	84.6	Nil	84.6	Nil	84.6	Nil
9	UG	B.Tech Fashion Technology	89	11	85	15	100	Nil	100	Nil
10	UG	B.Tech Information Technology	81	4	86	4	100	Nil	92	Nil
11	UG	B.E Mechanical Engineering	92.95	7	100	Nil	93	6.8	100	Nil
12	UG	B.E Mechatronics Engineering	98.6	1.4	98.6	1.4	92.2	7.8	95.3	4.7
13	UG	B.Tech Textile Technology	93.1	5.6	95.7	Nil	98.5	Nil	84.4	Nil
PG PROGRAMME										
1	PG	M.Tech Biotechnology	100	5	100	Nil	100	Nil	100	Nil

2	PG	M.E Structural Engineering	94	6	94	6	100	Nil	100	Nil
3	PG	ME Computer Science Engineering	100	Nil	100	Nil	100	Nil	100	Nil
4	PG	M.E Power Electronics and Drives	100	5	100	Nil	100	Nil	100	Nil
5	PG	M.E Embedded Systems	100	Nil	100	Nil	100	Nil	100	Nil
6	PG	M.E Applied Electronics	94.4	5.6	100	Nil	100	Nil	94.4	5.6
7	PG	M.E Communication Systems	100	Nil	100	Nil	100	Nil	100	Nil
8	PG	M.Tech Apparel Technology	100	Nil	100	Nil	100	Nil	100	Nil
9	PG	M.E Industrial Engineering	100	Nil	100	Nil	100	Nil	100	Nil
10	PG	M.E Energy Engineering	100	Nil	100	Nil	100	Nil	100	Nil
11	PG	M.E CAD/CAM	100	Nil	100	Nil	100	Nil	100	Nil
12	PG	M.Tech Textile Technology	Nil	Nil	100	Nil	100	Nil	100	Nil
13	PG	MBA Management Studies	85	15	NA	NA	NA	NA	NA	NA
14	PG	MCA Computer Applications	95	Nil	100	3	98	3.5	100	3.5

5.2.4 What is the number and percentage of students who appeared/ qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOEFL / GMAT / Central / State services, Defense, Civil Services, etc.

Name of the Program	UG / PG	Academic Year	Name of the Qualifying Exam	No.of Students Appeared in Qualifying Examination	No.of Students Qualified in Qualifying Examination	% of students qualified
BE Civil Engineering	UG	2014 - 15	GRE,TOEFL, GATE & TANCET	48	20	42
BE Civil Engineering	UG	2013 - 14	GRE,TOEFL, GATE & TANCET	51	22	43
BE Civil Engineering	UG	2012 - 13	GATE & TANCET	51	19	37
BE Civil Engineering	UG	2011 - 12	GATE & TANCET	47	19	40

Name of the Program	UG / PG	Academic Year	Name of the Qualifying Exam	No.of Students Appeared in Qualifying Examination	No.of Students Qualified in Qualifying Examination	% of students qualified
BE Computer Science & Engineering	UG	2014-15	GATE	3	1	33.3
BE Computer Science & Engineering	UG	2013-14	GRE	2	2	100
BE Computer Science & Engineering	UG		TOEFL	2	2	100
BE Computer Science & Engineering	UG	2012-13	GRE	2	2	100
BE Computer	UG		TOEFL	2	2	100

Science & Engineering						
BE Computer Science & Engineering	UG	2011-12	Nil	Nil	Nil	Nil

Name of the Program	UG / PG	Academic Year	Name of the Qualifying Exam	No.of Students Appeared in Qualifying Examination	No.of Students Qualified in Qualifying Examination	% of students qualified
BE-Electrical and Electronics Engineering	UG	2014-15	GRE	2	2	100
BE-Electrical and Electronics Engineering	UG	2013-14	GRE	3	3	100
BE-Electrical and Electronics Engineering	UG	2012-13	GRE	2	2	100
BE-Electrical and Electronics Engineering	UG	2011-12	GRE	7	7	100

Name of the Program	UG / PG	Academic Year	Name of the Qualifying Exam	No.of Students Appeared in Qualifying Examination	No.of Students Qualified in Qualifying Examination	% of students qualified
B.Tech-Fashion Technology	UG	2014-15	TANCET MAT NIFT	3 3 1	3 3 1	100 100 100
B.Tech-	UG	2013-14	TANCET	1	1	100

Fashion Technology			TCET NIFT	7 2	7 2	100 100
B.Tech-Fashion Technology	UG	2012-13	IELTS GRE NIFT	4 1 3	4 1 3	100 100 100
B.Tech-Fashion Technology	UG	2011-12	TANCET TCET NIFT NID	1 2 1 1	1 2 1 1	100 100 100 100

Name of the Program	UG / PG	Academic Year	Name of the Qualifying Exam	No.of Students Appeared in Qualifying Examination	No.of Students Qualified in Qualifying Examination	% of students qualified
B.Tech Information Technology	UG	2014 - 15	MAT	3	3	100
			GATE	6	Nil	Nil
			CAT	1	1	100
B.Tech Information Technology	UG	2013 - 14	MAT	2	2	100
			GRE	1	1	100
B.Tech Information Technology	UG	2012 - 13	GATE	6	3	50
			CAT	2	2	100
			TANCET	3	3	100
			MAT	1	0	0
			IELTS	1	1	100
B.Tech Information Technology	UG	2011 - 12	TANCET	1	1	100
			TOEFL	2	2	100

Name of the Program	UG / PG	Academic Year	Name of the Qualifying Exam	No.of Students Appeared in Qualifying Examination	No.of Students Qualified in Qualifying Examination	% of students qualified
B.Tech - Textile Technology	UG	2014-15	GATE	4	0	0
B.Tech - Textile Technology	UG	2013-14	GATE	1	1	100
			IELTS	2	2	100

B.Tech - Textile Technology	UG	2012-13	TANCET	1	1	100
B.Tech - Textile Technology	UG	2011-12	TOEFL	1	1	100
			TANCET	5	5	100

Name of the Program	UG / PG	Academic Year	Name of the Qualifying Exam	No.of Students Appeared in Qualifying Examination	No.of Students Qualified in Qualifying Examination	% of students qualified
B.E - Mechatronics Engineering	UG	2014-15	GATE	4	Nil	Nil

Name of the Program	UG / PG	Academic Year	Name of the Qualifying Exam	No.of Students Appeared in Qualifying Examination	No.of Students Qualified in Qualifying Examination	% of students qualified
BE- Electronics and Communication Engineering	UG	2014-15	GATE	4	1	2.85
			TANCET	6	6	100
			GRE	6	6	100
			TOEFL	5	5	100
			MAT	1	1	100
			IELTS	2	2	100
BE- Electronics and Communication Engineering	UG	2013-14	TANCET	3	3	100
BE- Electronics and Communication Engineering	UG	2012-13	GATE	2	2	100
			GRE	6	6	100
			TOEFL	6	6	100
			IELTS	1	1	100

Name of the Program	UG / PG	Academic Year	Name of the Qualifying Exam	No.of Students Appeared in Qualifying Examination	No.of Students Qualified in Qualifying Examination	% of students qualified
BE - Mechanical Engineering	UG	2014-15	GATE	2	2	100
BE - Mechanical Engineering	UG	2013-14	Nil	Nil	Nil	Nil
BE - Mechanical Engineering	UG	2012-13	Nil	Nil	Nil	Nil
BE - Mechanical Engineering	UG	2011-12	Nil	Nil	Nil	Nil

Name of the Program	UG / PG	Academic Year	Name of the Qualifying Exam	No.of Students Appeared in Qualifying Examination	No.of Students Qualified in Qualifying Examination	% of students qualified
BE- Electronics & Instrumentation Engineering	UG	2014 - 15	GATE	8	Nil	Nil
BE- Electronics & Instrumentation Engineering	UG	2013 - 14	GATE	5	Nil	Nil
BE- Electronics & Instrumentation Engineering	UG	2012 - 13	GATE	20	Nil	Nil
BE- Electronics & Instrumentation Engineering	UG	2011 - 12	CAT	1	1	100

Name of the Program	UG / PG	Academic Year	Name of the Qualifying Exam	No.of Students Appeared in Qualifying Examination	No.of Students Qualified in Qualifying Examination	% of students qualified
BE-Aeronautical Engineering	UG	2014-15	GATE	20	2	10
	UG	2014-15	GRE	8	4	50
	UG	2014-15	TOEFL	2	1	50

BE-Aeronautical Engineering	UG	2013 -14	GATE	10	1	10
	UG	2013 -14	GRE	5	1	20
	UG	2013 -14	IELTS	3	1	33
BE-Aeronautical Engineering	UG	2012 -13	CAT	5	3	60
	UG	2012 -13	GATE	8	3	38
	UG	2012 -13	GRE	4	2	50
BE-Aeronautical Engineering	UG	2011-12	GATE	11	3	27.3

Name of the Program	UG / PG	Academic Year	Name of the Qualifying Exam	No.of Students Appeared in Qualifying Examination	No.of Students Qualified in Qualifying Examination	% of students qualified
B.E. -Automobile Engineering	UG	2014-15	TOEFL	1	1	100
B.E. -Automobile Engineering	UG	2014-15	GRE	1	1	100
B.E. -Automobile Engineering	UG	2014-15	IELTS	1	1	100

5.2.5 Provide details regarding the number of Ph.D/D.Sc./D.Litt. theses submitted, accepted, resubmitted and rejected in the last four years.

Academic Year	Name of Higher Qualification (Ph.D/D.Sc./ D.Litt	No of thesis Submitted	No of thesis Accepted	No of thesis Completed	No of thesis Resubmitted	No of thesis Rejected
2014-15	Ph.D	1	1	3	Nil	Nil
2013-14	Ph.D	1	1	4	Nil	Nil
2012-13	Ph.D	Nil	Nil	1	Nil	Nil
2011-12	Nil	Nil	Nil	Nil	Nil	Nil

5.3 Student Participation and Activities

5.3.1 List the range of sports and games, cultural and extracurricular activities available to students. Provide details of participation and program calendar.

The college has 23 acres of play ground and physical education department with dedicated staff functioning to enable the students practicing various sports &games and to conduct competitions at national and international levels.

- Running track
- Football ground
- Cricket ground
- Volley ball, Basket ball, Badminton and Tennis courts
- Hand ball, Kho-Kho, Throw ball and.
- Indoor games
- KRAFT- Gymnasiam etc.

Annual sports calendar is given in 5.3 Annexure I

Wings(TN) NCC as follows

Table 5.3.1: The NCC Chapter of KCT

Division	Coordinator	Number of cadets
NCC Boys Army Wing 4 (TN) BN, NCC	Lt. A.R. Arul	50
NCC Girls Army Wing 5 (TN) Girls BN, NCC	Lt. M. Catherine Daisy	62
NCC Boys Air Wing 5 (TN) Air Sqn Tech, NCC	Dr. R. Sengoden	50

NSS and other 27 clubs [Table 5.1.1] are effectively operated with the hundreds of students participating in various events/ competitions. The following table presents the number of students participated in co-curricular, extracurricular and cultural activities at various levels:

Table 5.3.2: Number of events participated

Academic Year	Co-Curricular	Extra-Curricular	Sports			
			International	National	State	District
2011-12	105	92	2	6	26	34
2012-13	265	19	3	23	13	38
2013-14	128	79	9	4	10	74
2014-15	308	12	-	11	8	53

Details are given in 5.3 Annexure II



NCC – Air Wing Activities





NCC - Army Wing Activities



Sports Activities



NSS Activity: Social Campaign at Chinnavedampatti high school

5.3.2 Provide details of the previous four years regarding the achievements of students in co-curricular, extracurricular activities and cultural activities at different levels: University / State / Zonal / National / International, etc.

The following table presents the number of students won in co-curricular, extracurricular and cultural activities at various levels:

Table 5.3.3: Details of prizes won by the students

Academic Year	Co-Curricular	Extra-Curricular	Sports			
			International	National	State	District
2011-12	54	79	2	2	26	24
2012-13	154	12	1	20	11	26
2013-14	87	65	5	1	5	50
2014-15	157	8	-	9	4	33

Table 5.3.4: Details of 'B' & 'C' Certificate Exams

Sl. No.	Year	No. of cadets in 'B'	No. of cadets in 'C'
1	2011-2012	105	27
2	2012-2013	88	57
3	2013-2014	Nil	63
4	2014-2015	66	Nil

- Overall championships in CATC camp, 2011
- Best Cadet award in CATC camp, 2012 out of 750 cadets
- First prize in volleyball tournament in NIC Camp, 2012
- Second prize in firing in the CATC camp, 2013

5.3.3 How often does the College collect feedback from students for improving the support services? How is the feedback used?

The college has a mechanism of collecting feedback at various levels like class wise, department wise and college wise. Some of them are listed below:

Ward Counsellor Meeting:

For a set of students each faculty will be allotted. The students will be meeting the concerned faculty every week in a scheduled period (as per timetable) and report their issues. This weekly interaction helps in solving the issues in a short span of time.

Class Committee Meeting

The student representatives (from all categories like boys, girls, slow learners, fast learners) will be attending this meeting. The inputs from them will be collected by the Meeting Chairperson and the steps planned will be reported to Department HOD.

Semester Feedback

At the end of each semester, the students will provide feedback for each

course in various aspects like, the extent of knowledge gained, resources provided for studying and other similar aspects. This will be helpful in improving the teaching-learning process.

Suggestion Boxes

In addition to the formal way of collecting feedbacks, Suggestion Boxes are placed at each department. This is way of getting valuable feedbacks from the students, thereby maintaining confidentiality. The issues reported are sorted out and addressed by giving more priority.

Feedback through OSA (Office of Students Affairs)

The students are also provided opportunities to express their feedbacks in terms of academics, extra and co-curricular activities etc to this Council. OSA also contains student representatives, who will help the students to feel easy in approaching the right person.

Hostel Representative Meetings:

Frequent Meetings of Hostel Representatives and Mess Representatives is held to address the grievances of the hostellers. Separate meetings will be conducted for boys and girls.

The issues reported in the response of meetings, facilities expected from the students, will be communicated through the proper channel of HOD, Principal and finally Management, for further approvals.

5.3.4 Does the College have a mechanism to seek and use data and feedback from its graduates and employers, to improve the growth and development of the College?

Yes, the college nurtures a good relationship with the alumni, as they act as the brand ambassadors for the college. In order to find out the ways of improving the college to next level, the college has a mechanism of continuously collecting the feedback from their Graduates, Employers.

- Each department of the college has their own professional bodies like Programme Advisory Board and Board of Studies, which have alumni and Industrial person as members to give their valuable suggestions in revamping the Syllabus and Curriculum.

- Global Alumni Meet is organized every year, to maintain a continuous relationship with the Alumni. This helps in getting their ideas, feedbacks about the college improvement.
- The feedback from the employers is obtained when they visit the campus for recruitment. The feedbacks are also sought from the employers via email, through the placement cell or through the graduates.
- The feedback from the students during the programme exit is collected online.
- Course feedbacks are collected from the students during and end of the course.

5.3.5 How does the College involve and encourage students to publish materials like catalogues, wall magazines, College magazine, and other material? List the major publications/ materials brought out by the students during the previous academic session.

KCT students are encouraged and supported to publish the articles relevant to latest technologies, innovations, creative ideas, students' achievements, club activities, social activities, literary articles in the magazines, newsletters published by each department.

Table 5.3.5: Newsletters of few departments

Department	Newsletter
Aeronautical Engineering	Aeronautical Newsletter
Computer Science and Engineering	Silicon Magic
Computer Applications	Protos
Civil Engineering	Bulletin
Electrical and Electronics Engineering	Electro-waves
Electronics and Instrumentation Engineering	Electronics and Instrumentation Newsletter
Textile Technology	Textile Technology Newsletter



Departmental Newsletter Logos

5.3.6 Does the College have a Student Council or any similar body? Give details on its constitution, major activities and funding.

Department level student association consisting of various student office bearers is functioning to organize the technical and extracurricular events.

The Office of Student Affairs proposes to take care of the effective functioning of the Student's association and provide support for the students to organize various general events. Hence the office of student affairs will co-ordinate and validate the year plans, budget and involve in the selection of the team.

Student's Council takes care of the various clubs and forums including their budget. OSA will assist the student's council to ensure the effective functioning of clubs and forums.

- To validate year plan the budget
- Selection of Student's Council
- A hand in operation of bank account

5.3.7 Give details of various academic and administrative bodies that have student representatives on them. Provide details of their activities.

The following are the list of academic and administrative bodies, where the students have a role in representing their community to the college.

Students are members in the following academic bodies

- Programme Advisory Board
- Board of Studies

- Staff Selection Board
- Academic Council

Students are also associated with administrative bodies like

- Department Association
    - Each Department have their own Association, headed by the Student President and comprises of Student Member Secretaries. The students are elected based on the voting system and the elected members represent their Department Association. They involve with the other students in organizing technical events, release of Department magazines etc.
- Hostel Mess Committee
    - This committee is framed separately for Boys and Girls. The students have a chance to grieve about the concerns they have regarding food provisions in the Hostel Mess to the respected authorities and to take further action
- Class Committee
    - The Class Committee Meeting is organized thrice a semester for each Class. It will be attended by a set of student representatives along with the staffs handling courses for them. The HOD and Class Committee Chairperson will preside on the Meeting and look after the grievances
- Anti-Ragging Committee
    - This Committee consists of Student Representatives, both boys and girls and guides them in resolving any ragging issues inside the campus.
- Entrepreneurship Development Cell – Namma Cafe
    - The Entrepreneurship Development Cell of KCT motivates the students to nurture their entrepreneurship skills. Namma Café, a student startup is established at KCT. The students are also a part of this group helping other budding entrepreneurs.
- Training and Placement Cell
    - This Cell consists of Student Coordinators and other student volunteers from prefinal and final year classes. Their duty is to bridge the gap between the placement cell and the students aspiring for placements. They also help in conducting and training the students with required placement skills.

- ISTE, IEEE & IE(I) Students Chapter
    - These are Professional Bodies which has students from various fields actively participating in getting funds for projects, organizing and attending paper presentation etc.
- Club Activities:

The College has ensured the student involvement in various club activities like Road Safety Patrol, HAASYA Club, Fine Arts Club, Music and Dance Club, Literary Club, Karate Club, Nature Club, Namadhu Pangu, Tamil Mandram. The students take the role of organizing various events under each club and represent the college team outside.



Kumaraguru Innovators Club (KIC) Event



HAASYA Club – Activity

Additional Information:

- For the holistic development of the student community to solve the societal problems of the nation, KCT operates the human excellence department.



Human Excellence Course Work





World International YOGA Day



முகாமில் மாணவ- மாணவிகளுக்கு யோகா பயிற்சி அளிக்கப்பட்ட போது எடுத்த படம்.

YOGA Camp at KCT – Newspaper snippet

- **Swami Vivekananda Study Centre:**

In order to introduce a great personality Swami Vivekananda, who has been a constant source of inspiration for the whole world, to our Students and to facilitate our Students to know more about the patriotic monk of India, Swami Vivekananda Study Centre has been instituted. The main objectives of this centre are:

- Creating employable youth and enlightened citizens

- Empowering the youth to enrich the nation
- Channelling youth energy towards Character Building
- Arousing enthusiasm among youth
- Instituting an Annual Award for Excellence



The various ongoing and planned activities of Swami Vivekananda Study Centre:

- A Photo Gallery depicting the life and message of Swami Vivekananda
- Unique library related to Swami Vivekananda
- Inspiring books for sale
- Organizing Spoken English classes
- Organizing Study Circles
- Organizing Public Speaking classes
- Organizing Hand-writing/Essay-writing classes
- Organizing Personality Development classes
- Screening documentary films on Swami Vivekananda
- Organizing tours to historical places connected with Swami Vivekananda
- To spread the life giving message of Swami Vivekananda in nearby villages

Annual National Seminar on Swami Vivekananda is Organized with competitions like elocution, recitation, painting, singing , etc....

- **Mahatma Gandhi Study Centre:**

Mahatma Gandhi Study Centre houses a photo gallery and books written on Mahatma Gandhi. It also has seminar hall with all required facilities. Lectures on Gandhian principles are organized in this centre regularly for the benefit of the students.

Gandhian Youth Movement , a youth wing of Mahatma Gandhi study centre, was inaugurated with the objectives of inculcating Gandhian thoughts in younger minds. Mahatma Gandhi study centre and Gandhian youth movement adopted Idikarai village in Coimbatore district to create awareness on anti-alcoholism. Members of Gandhian youth movement frequently visit schools for differently-abled to teach them the Gandhian principles and thoughts on Independence Day and Republic Day. Mahatma Gandhi study centre and Gandhian youth movement organize Gandhian week during October 1st week on account on Gandhi Jayanthi (2nd October) and Sarvodaya week during January last week on account on Sarvodaya Day (30th January).



Apart from the above activities, Mahatma Gandhi study centre and Gandhian youth movement organize Gandhian Youth Training Camp in various places once in a year. Mahatma Gandhi study centre and Gandhian youth movement maintain “thought boards” in Kumaraguru College of Technology campus in which Gandhian thoughts are written daily.

Mahatma Gandhi study centre and Gandhian youth movement initiated an awareness program on eye donation in the name of “Vizhi Vithaigal”. The main motive of eye donation is to reduce the number of people with corneal blindness. After the eyes are acquired the eyes will be processed by the eye bank and supplied to the eye specialists who will transplant the corneal tissue into the eye of a person blinded by corneal disease.

- Few photos of Students facilities and activities are shown below.

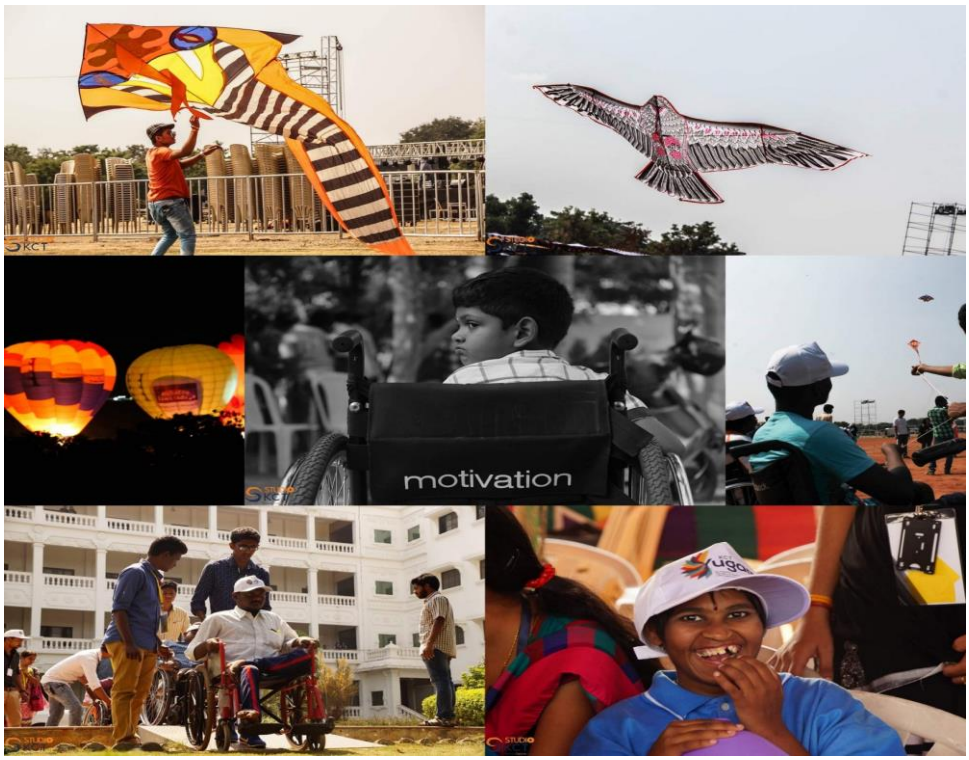





STUDIO
KCT
Explore..Capture..Inspire
Y4U
Music Club of KCT
JANANAM'16


STUDIO KCT
CELEBRATIONS
20th January, 2016
Feathers
KCT


Yugam 2016
157 COLLEGES 9543 PARTICIPANTS


motivation

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the College.

Vision of the College:

To become a Technical University of International Standards through consistent development.

Mission of the College:

Kumaraguru College of Technology is committed to provide quality Education and Training in Engineering and Technology to make ready students for life and work, equipping them to contribute to the technological, economic and social development of India. The College pursues excellence in providing training to develop a sense of professional responsibility, social and cultural awareness and set students on the path to leadership.

6.1.2 Does the mission statement define the College's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, College's traditions and value orientations, vision for the future, etc.?

Yes.

The mission statement emphasizes on

- Making ready the students as a socially responsible citizen to contribute for economic and social development of India.
- Making students to be technically strong in building the nation.
- Provide training to develop sense of professional and cultural responsibilities for leadership.

6.1.3 How is the leadership involved?

Ensuring the organization's management system development, implementation

(a) Through ISO: The Institution is an ISO 9001:2008 certified Institution for which the certificate is enclosed.



ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

TÜV SÜD South Asia

CERTIFICATE

The Certification Body of TÜV SÜD South Asia Private Limited

certifies that

Kumaraguru College of Technology (An Autonomous Institution)
Chinnavedampatti Post,
Coimbatore - 641 049, Tamilnadu, INDIA

has established and applies a Quality Management System for

Design and Delivery/implementation of Academic System (Curricula & Syllabi, Teaching, Learning and Evaluation processes) for providing education leading to Under-Graduate, Post-Graduate and Doctoral programmes in Science, Engineering, technology and Mangement and the conduct of continuing education programmes and carrying out R&D projects

An audit was performed, Report No. **20054255**

Proof has been furnished that the requirements according to **ISO 9001 : 2008**

are fulfilled. The certificate is **Valid until** 2017-03-31
Subject to successful completion of the Annual Audit before **2015-03-07**

The present status of the Certificate can be obtained on www.tuv-sud.in

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2008 requirements may be obtained by consulting the certification body

Certificate Registration No. **99 100 03736**

Mumbai,

Effective Date: 2014-03-18

Certification Body
of TÜV SÜD South Asia Private Limited
Member of TÜV SÜD Group

NABCB QM011

TÜV SÜD South Asia Pvt. Ltd. • TUV SÜD House • Saki Naka • Andheri (East) • Mumbai – 400072 • Maharashtra • India

TÜV

Under ISO of the Institution, the following are the broad areas covered:

- Amendments
- ISO Formats
- ISO Manual
- ISO Procedures
    - ❖ Formats QAS 01-04
    - ❖ QP 01 Admission
    - ❖ QP 02 Academic Programme
    - ❖ QP 03 Examinations

- ❖ QP 04 Research and Consultancy
- ❖ QP 05 Recruitment and Training
- ❖ QP 06 Short Courses
- ❖ QP 07 Placement
- ❖ QP 08 Support Services
- ❖ QP 09 Quality Systems
- ❖ QP 10 Objectives and Targets
- ❖ QP02A Quality Plan

All Departments are under ISO and periodic internal and external audits to ensure the compliance of the entire Institution to the policies, procedures and processes indicated under ISO.

(b) Through KCT – Management Information Systems (MIS)

- The Institution has a strong MIS on intranet that takes care of the board areas of the Institution indicated below:
  - Student Management System
  - Attendance Management System
  - Payroll Management System
  - Purchase Management System
  - Hostel Management System
  - Security Information System
  - ISO Document Link
  - Online ID card – Application
  - Mobile SMS – Option
  - Network / Security System
- The Department of Technological Service (DTS) of the Institution takes care of the online maintenance of all the ISO and MIS requirements of the Institution.

(c) Continuous Improvement:

The Institution gets periodic feedback from all the stakeholders (Students, Parents, Alumni, Faculty member, Employer). Based on their feedback, necessary modifications are being implemented.

For instance, the students requested for practice to appear in online competitive examinations. To address this issue, there is an amendment in the regulations to provide online based assignment system for two courses in a semester from the year 2014. It is anticipated that regular practice in appearing online internal assessment will negate the problems of our students in appearing competitive examinations.

Interaction with stakeholders:

- The principal conducts weekly HODs meeting to discuss on various issues relating to academic, administration and student issues.
- The HODs in turn conduct department level meetings every week.
- HOD, Faculty members discuss various issues inclusive of teaching – learning with student representatives in course committee meetings conducted thrice in a semester.
- Alumni meeting – In the form of conventional global alumni meeting every year in the campus, inviting notable alumni for guest lectures and interacting with alumni through various alumni chapters such as Melbourne, London, US chapter etc.




Alumni US Chapter Meet

- Parents meetings
- Board of studies meeting
- Center of Excellence for Advanced Design Provides advanced solutions, research and development support to industries in product development with an experienced pool of faculty and advanced infrastructure available in various domains.
- Placement Cell also interacts with companies for recruitment, internships and training.
- Industry Institute Partnership Cell – Training for industry people, internships, outreach programs.

Reinforcing Culture of Excellence

To bring in a culture of excellence in academic activities, the Center for Academic Excellence was brought into existence during September 2009. The activities of the center can broadly be stated as follows.

- To develop systems that will enable standardization of academic activity that is essential for sustained academic growth.
- To conduct academic audits to ensure that the departments comply with the established academic standards.
- Organize and impart training to the faculty to develop their capabilities for quality academic delivery in line with NBA requirements.
- Provide academic orientation and training to students for enhancing their employability.

(a) Standardization Activities

Following are the standardization activities that have been Institutionalized.

- Preparation of study materials for teaching theory courses by way of standardized formats.
- Preparation of laboratory manuals and work books by way of standardized formats.
- The work of class advisors and ward counselors.
- All academic systems/processes are standardized to achieve academic excellence.

(b) Academic Audits

In order to ensure that the academic standards are followed by all departments, academic audits are conducted periodically. The audits are being conducted by the Principal, HOD of the concerned department and the Center for Academic Excellence.

(c) Training

Organize and impart training to the faculty to develop their capabilities for quality academic delivery.

Provide academic orientation, soft skills and placement training to students for enhancing their employability.

(d) Standardization for Outcome Based Education process

For adhering to the OBE process, the program specific documents have been standardized and the scrutiny of documents are been conducted through the Center for Academic Excellence.

Identifying Needs and Championing Organizational Development (OD)?

(a) OBE Initiatives:

Kumaraguru College of Technology has started implementing outcome based education through its regulations, curriculum, syllabi and academic processes from the academic year 2014. Traditionally, educational system performance of a student is measured only based on the marks/grades obtained in the end semester examinations. The extent to which a student has acquired the needful knowledge, skills and attitude through learning of a course (subject) and program (degree) is not addressed in traditional educational systems. This gap is addressed and filled through the implementation of outcome based education. In the system of outcome based education, the entire academic processes, examinations, co-curricular and extracurricular activities are conducted with a clear focus on attaining the required knowledge, required skills and attitude that are to be present in a student undergoing a particular degree/program.

The foundation of outcome based education is "Assessment Leads to Learning" which in simpler language means "a challenging assessment/examination/testing system will make a student to learn". Indian higher education policies today demands educational Institutions to follow outcome based education by the way of India becoming a permanent member of Washington Accord. With this paradigm shift in the approach of education, KCT has developed very vibrant systems and has been using it from the academic year 2014. Our students are getting fine tuned to this particular system of education and KCT as a whole is on the path towards making students achieve the required knowledge, skill and attitude in its students by the time they graduate from KCT. Through outcome based education our graduates will be considered as world class in and out of India.

6.1.4 Were any of the senior leadership positions of the College vacant for more than a year? If so, indicate the reasons.

No; Normally these positions are filled by conducting the selection process well in advance.

6.1.5 Does the College ensure that all positions in its various statutory bodies are filled and conduct of meetings at the stipulated intervals?

Yes, the administration takes ample efforts to keep the governance as smooth as possible and conduct meeting at regular intervals. The following table illustrates the various statutory and non- statutory bodies functioning in the Institution.

STATUTORY / NON-STATUTORY COMMITTEES

Sl. No	Name of the Committee	Frequency of Meeting	Faculty - In charge	Statutory : Yes/No
1	Governing Council / Governing Body	Once a year	Mr.Jeeva Kalyanasundaram, AO / Mr. Kanagaraj, CoE Office	Yes – Anna University & UGC
2	Academic Council	Once a year	Prof. T.R.Sukumar, DCoE	Yes - UGC
3	Standing Committee	As required	Prof. T.R.Sukumar, DCoE	No
4	Board of Studies	Once a year	Prof. T.R.Sukumar, DCoE	Yes - UGC
5	Finance Committee	Twice a year	Mr.Muniasamy, EO / Prof. T.R.Sukumar, DCoE	Yes - UGC
6	Planning and Monitoring Board	Twice a year	Prof.C.Vasantharaj Prof & Head/ Auto	Yes - Anna University
7	Discipline and Welfare Committee	Twice a year / As required	Dr.P.Devaki, Prof & Head / CSE	Yes – Anna University
8	Complaints cum Redressal Committee	Twice a year / As required	Dr.J.Premalatha Prof & Head/ Civil	Yes – Anna University
9	Anti Ragging Committee	Quarterly / As required	Dr.R.Marudhachalamm Asst.Prof (SRG)/ Maths / S&H	Yes – UGC & Anna University
10	Anti Ragging Squad			
11	Mentoring and Counselling Forum	As required	Mrs.Vallikala Counsellor, OSA	Yes – UGC & Anna University
12	Internal Complaint and Women Empowerment Committee	Twice a year / As required	Dr.J.Premalatha Prof & Head / Civil	Yes – AICTE & Anna University
13	RTI Cell	As required	Principal, DGM, AO, EO	Yes – NBA
14	Alumni Association	Once in two months	Mr.Anand, Exec.(AR)	Yes – Anna University
15	Training and Placement Cell	Once in a month	Mr.Ravi Kandasamy Head–PMO Mr.Senthamaraikannan Placement Officer	Yes – Anna University

16	Committee for SC / ST	Twice a year / As required	Ms.J.Cynthia, ASP / IT	Yes – AICTE
17	Values & Ethics Committee	Twice a year	Dr. M. Ezhilarasi Prof & Head / EIE	No
18	Social Immersion Project Committee	Quarterly	Dr.T.Arunachalam Prof & Head / Maths / S&H	No
19	Environmental and Green Campus Committee	Twice a year	Mr. V. Senthil Kumar, AP / CE	No
20	Academic Regulation Review and Monitoring Committee	Quarterly	Dr.R.S.Kumar, Principal Prof. S. Bhaskar, Head / CAE	No
21	Library Advisory Committee	Quarterly	Dr.P.K.Giridharan Prof & Head / Mech (PG)	No
22	International Relations Committee	Quarterly	Dr.Ramalatha Marimuthu Prof & Head / IT	No
23	Hostel Committee	Once in a month	Mr.V.Vijilesh, OSA	No

6.1.6 Does the College promote a culture of participative management? If yes, indicate the levels of participative management.

Yes

- Brainstorming sessions with students, faculties, HOD's, Principal and management in decision making and implementation of strategies.
- Encouraging faculty members to participate in Academic Council, Finance Committee. Involving students in various bodies such as Board of Studies, Disciplinary Committee, Anti Ragging Committee, etc through Office of student's affairs (OSA).
- In infrastructure development and purchase decisions, the opinions of faculty members, alumni and industry personnel are considered.
- Students participate through Office of student affairs(OSA)
- Professional student counselor is appointed to help the current students and the counselor will share some of the student expectations on academic environment. That will also be considered for policy making.
- Class committee meetings are organized in the department levels to monitor the teaching learning process.

- Students of every department have their own association and the office bearers are elected by the students of the concerned department. The executive committee will discuss their annual activities with the management and submit budget as well.
- Students play a major role in hostel mess committee in deciding the food menu for the inmates and providing suggestions for overall improvement of the services of the hostel.
- There are 35 students clubs are functional in the college and each club has a faculty in-charge. The office bearers of each club are elected annually by its members. Students are actively involved in planning the various programmes and execute through these clubs. The following list illustrates some of the student clubs available in our Institution.

Arts	• Fine arts • Dance Club • Music Club
Entrepreneurship	• LEED • Namma Cafe • Studio KCT
Literature	• Sahitya • Tamil Mandram • Qubate • HAASYA Club
National Cadet Corps	• Boys Wing • Girls Wing
Social	• National Service Scheme • youth Red Cross • Red Ribbon Club • Volunteer Blood Donation Club • Gandhian Youth Movement • Vivekanandha Youth Movement • Nature Club • Rotaract Club • Namadhu Pangu (which means “Our Contribution”) • Road Safety Patrol • Manavalakalai Mandram
Technical	• HAM Club • Society of Automotive Engineers • Students for the Exploration and Development of Space • Kumaraguru Innovators Club • Students have department level Student Associations

	in which a number of co curricular activities are planned and executed. These activities are guided by association faculty in-charges. • Participation of alumni in Board of Studies and involving them in curriculum development also promotes participative management.








Various Students Activities at KCT

A Sample copy on Annual Plan - Rotaract Club

S NO	DATE	EVENT NAME
1	15.08.2014	HOPE'14
2	19.08.2014	CLUB INSTALLATION
3	23.08.2014	ZEAL'14
4	05.09.2014	TEACHERS DAY CELEBRATION
5	07.09.2014	GREENATHON'14
6	27.09.2014	NALAM'14
7	09.11.2014	IRIS'14
8	31.12.2014	PUDHU VIZHA
9	23,24,25/01.2015	NEGIZHI'15
10	26.01.2015	GURUKULAM
11	28.02.2015	MAZHALAI'15
12	21,22/03.2015	DISTRICT SPORTS MEET
13	08.03.2015	ZONE FORUM
14	17.03.2015	BEAT
15	31.03.2015	DRR OFFICIAL VISIT



NSS Camp



Mr. Kris Gopalakrishnan, Past President of CII, Member Trustee addressing the students



Leed Inaugural Address by our Joint Correspondent Shri. Shankar Vanavarayar





Entrepreneurship awareness camp sponsored by Entrepreneurship Development Institute of India, Ahmadabad

6.1.7 Give details of the academic and administrative leadership provided by the University to the College?

- University appoints representatives for Academic Council, Boards of Studies and Results Passing Board to provide suggestions for overall improvement of the Institution.
- The University appoints a representative from other Institution to ensure and monitor the quality of conduct of end semester examinations.
- University conducts regular and affiliation audit to ensure the quality needed for an educational Institution.

6.1.8 How does the College groom the leadership at various levels?

All the positions in the organizational hierarchy have well-defined roles and responsibilities.

- Faculty members are given responsibilities in organizing various events and coordinating various club activities.
- Class advisor and ward counselors are appointed as per the recommendations of UGC.

- Faculty members are encouraged to attend FDPs for technical updates and MDPs (Karl Kübel Institute for Development Education, Good to Great) for leadership. New faculty members are trained for their roles and responsibilities during the induction programmes.





Activities at karl kubel Institute for Development Education




Activities at Good to Great

- Students are encouraged to plan and execute various programmes through students associations and other clubs.
- Regular training programmes on personality development, leadership, entrepreneurship development are also conducted for students which enhance the leadership skills of the students.

6.1.9 Has the College evolved any strategy for knowledge management? If yes, give details.

Yes

- KCT Learning and Development Academy (KLDA) support the capacity building of faculty in the higher education space. Faculty members are encouraged to participate and enhance their competencies in the sessions organised by KLDA on Teaching & Learning, Research, Personal skill development, Professional skill development and Leadership.

- Faculty members are encouraged to organise FDP / MDP / offer consultancy to industry. They are motivated to introduce new courses, innovative pedagogy / assessment, usage of technology and to share their expertise with other Institutions.
- Research meetings are conducted periodically and faculty members are encouraged to publish articles in journals of repute.
- Faculty and students are deputed to attend seminars, conferences, workshops to enhance their knowledge. Knowledge gained by participating in conferences / workshops is shared among all faculty members through shadow programs.
- Research online database such as EBSCO, OPAC are available for searching reference materials in the library.
- Archiving of all the events conducted in the college is maintained centrally.
- Faculty members are motivated to share their knowledge in their areas of specialisation with their peers through Knowledge and Information Sharing Sessions such as Lunch time Seminars.
- Teaching and learning materials for both theory and practical courses are standardized and maintained in departments.

(a) Example of Knowledge Management of Theory Courses:

For knowledge management of classroom sessions, each faculty is maintaining a course file in OBE format. The format is as shown below.

KUMARAGURU

COLLEGE OF TECHNOLOGY

CLASS NOTES

Material No:

Name of Teacher / Designation :

Subject Code / Subject :

Course / Branch :

Topics : (The teacher specifies the topics that will be handled in that particular class)

Duration : _____Hours.

Resources required for handling the class :(Visuals, audio, question paper copies, printouts, etc,.)

STEP 1: INTRODUCTION

(1) LEARNING OBJECTIVES

(Specifically list what the student will be able to do once the topics mentioned in this class notes has been handled.)

After the session, the student should be able to:

-
-

(2) ICE BREAKING (optional)

The teacher prepares a *small activity* (to be conducted in the class) related to the topic with the following purpose.

- To open up the students towards the topic
- To creatively introduce the topic to the students

STEP 2: ACQUISITION

(The subtopics under the main topic being handled are listed. Under each sub topic, ***the entire detail is to be prepared***. This helps in handling the class with focus and confidence).

STEP 3: PRACTICE/TESTING

(The following two lists of questions are to be prepared.

(1) Objective type questions(as per UPSC pattern)

(2) Descriptive type question

Preparing and asking these questions in the class will make the classes highly interactive, and helps in preparing the students for taking up *placement tests and competitive examinations*. It also helps the teacher to know whether the students have understood the subject.)

Objective type questions:

-
-

Descriptive type questions:

-
-

STEP 4: REFLECTION

Summary (optional)

(A brief summary of the above material is to prepare.)

Audits are conducted by the Principal, HOD and the Center for Academic Excellence to ensure preparation of material by faculty. The faculty leaves behind a copy of the material in case of getting relieved from the Institution, thus knowledge is managed.

(b) Knowledge Management of Laboratory Courses:

For each laboratory, a manual and a work book have been put in place. The same is updated as and when needed. The workbook makes the student to do laboratory work (eliminating unnecessary writing work) and concentrate on practical learning. This system ensures knowledge management in laboratory courses. The format used for laboratory manual and laboratory work book is as shown.

Laboratory Manual

Exercise/Experiment Number:

Title of the exercise / experiment:

STEP 1: INTRODUCTION

(2) OBJECTIVE OF THE EXERCISE/EXPERIMENT

(Specifically list the main objectives of teaching the exercise/experiment to the students)

-
-

STEP 2: ACQUISITION

(The full material for the following topics is to prepared)

a) Facilities/material required to do the exercise/experiment:

Sl.No.	Facilities/material required	Quantity

b) Procedure for doing the exercise/experiment:

Steps	Description (in full)
1	
2	
3	
4	
etc	

Note:

(Diagrams like circuit diagrams, chart like process charts and so on are to be provide as per the requirement of the exercise.)

c) Calculations

- Formulae used with explanations
- Sample calculations

d) Inference and analysis:

The following may be prepared as per the requirements of the exercise:

- Tables with values that may be obtained and corresponding inferences
- Possible values, graphs and their corresponding analysis
- So on

STEP 3: PRACTICE/TESTING

(For the exercise/experiment, prepare a list of all possible questions (**with answers**) that are likely to be asked in the viva-voce of the final laboratory examination.)

Questions with answers:

LABORATORY WORK BOOK

Exercise/Experiment Number:

Laboratory Code / Laboratory :

Course / Branch :

Title of the exercise/experiment:

STEP 1: INTRODUCTION

(3) OBJECTIVE OF THE EXERCISE/EXPERIMENT

(The objective of learning the exercise/experiment is as follows)

-
-

STEP 2: ACQUISITION

e) Facilities/material required to do the exercise/experiment:

Sl.No.	Facilities/material required	Quantity

f) Procedure for doing the exercise/experiment:

Steps	Description
1	
2	
3	
4	
etc	

g) Mention suitable headings and provide formats/space for the following as required:

- **Drawing circuits, preparing process charts and so on as required.**
- **Blank tables for noting readings and making observations.**

- **Space for writing formulae and making calculations**

h) Inference and analysis(in accordance with the result obtained):

(Provide necessary space)

STEP 3: PRACTICE/TESTING

(For the exercise/experiment, list of all questions that are likely to be asked in the viva-voce of the final laboratory exam are prepared. In order to write the answers, necessary space is to be provided.)

Questions:

-
-

6.1.10 How are the following values reflected in various functions of the College?

Contributing to National Development:

The following clubs conducts various programmes which contribute to national development

- National Service Scheme
- Youth Red Cross
- Red Ribbon Club
- Volunteer blood donation club
- Gandhian youth movement
- Vivekanandha youth movement
- Nature Club
- Rotaract Club

- Namadhu Pangu
- Road Safety Patrol
- Agam Foundation (Self development including Yoga and Meditation)

- **KARE -** Kumaraguru Action for Relief and Empowerment

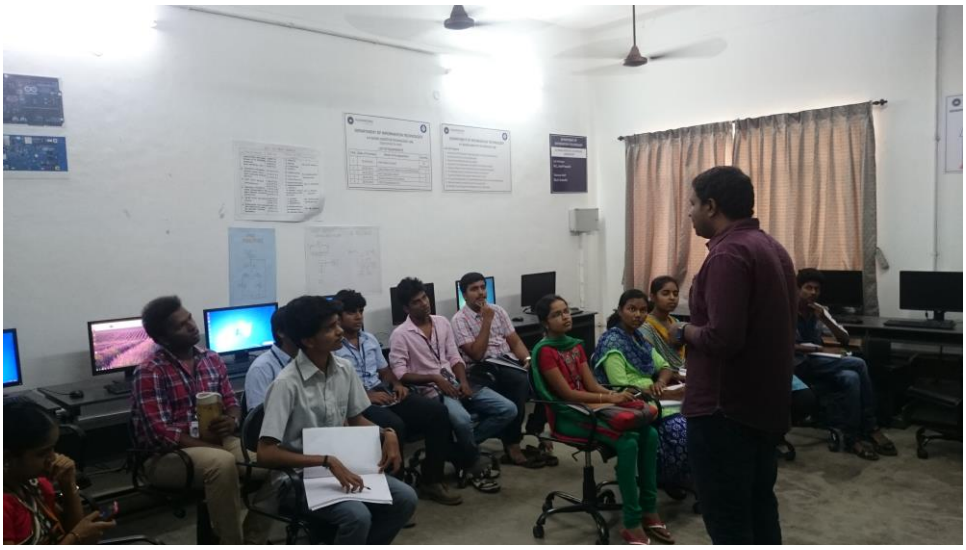


- Human excellence cell
- Providing infrastructure facilities to conduct state / national level competitive examinations such as Tamilnadu Public Service Commission and Tamilnadu Electricity Board Examinations.
- Hosting national level sports events for physically challenged peoples
- Organizing training programs for students to take up competitive examination.

Fostering global competencies among students:

- Curriculum is updated regularly to match the global expectation by involving various stakeholders inclusive of industry personnel. In addition to conventional class room teaching, various modern teaching methods such as practical hands on training through games, simulation, forums and active class room learning methods.

- Participation in international conferences, attending webinars and visits by international faculty happen regularly at the Institution.
- Students are encouraged to undertake internships / projects in industries and also industry visits are arranged every year.
- One credit certification programs by reputed organizations/ professors are offered to students to meet the demands of 4th industrial revolution.
- International relations cell (IRC)
- New courses on emerging areas are included which will enhance global competencies of students.
- Industry sponsored programs have been introduced in the Institution, such as PG diploma in Oil and gas industries in association with Cameron.
- Value added courses are conducted for students to enhance global competency.
- Industry sponsored laboratories are also established such as Intel Sponsored (Internet of Things) IoT Laboratory.



Intel Sponsored IoT Laboratory

Inculcating a value system among students:

- Through human excellence department following courses are conducted to our students.

S.No	Sub Code	Sub Title	Semester
1	U13 GHP101	Personal Values-I	I
2	U13GHP201	Personal Values-II	II

3	U13GHP301	Family Values	III
4	U13GHP401	Professional Values	IV
5	U13GHP501	Social Values	V
6	U13GHP601	National Values	VI
7	U13GHP701	Global Values	VII

- Gandhian Youth Movement
- Vivekanandha Youth Movement
- Namadhu Pangu
- Tamil Mandram
- Studio KCT
- Courses on professional Ethics, TQM, and Value Education are included in the curriculum, which will inculcate a value system among students.
- Discipline among students and faculty is maintained by proper dress code, timeliness, cleanliness, etc.
- Motivation to help poor and needy through contribution by students and faculty for Orphanage, Natural calamities, Old age homes and under privileged through Gandhian youth movement, Vivekanandha youth movement, Namadhu pangu and KCT KARE Kumaraguru Action for Relief and Empowerment
- NSS camps for social activities and rural development are organized periodically.
- Blood donation camps, student rallies and camps for creating awareness on social issues are conducted. These activities are done through NSS, NCC, Road safety patrol, etc.

Promoting use of technology:

- Computers and internet facility are provided for students and faculty.
- The College is enabled with Wi-Fi connectivity having an Internet Bandwidth of 256mbps. Wi-Fi is available at Hostels, Common area like KORE, MBA Café.
- Class rooms are provided with multimedia projectors.
- Webinars are arranged to interact with the experts from the industry.
- Digital library.
- Faculties and students are encouraged to take up MOOC and NPTEL courses.
- Online facilities like Google forms, survey monkeys are used to get feedbacks for courses.

- Management Information System (MIS) is used to manage student's attendance, internal exam marks and employee's attendance. Important modules in this system are Student Management System, Attendance Management System, ISO Document link, Online ID card application and Security Management System.
    - Student Management system – This link can only be accessed by the teaching faculty members to map course-student-faculty, enter students' attendance, enter internal/model exam marks for each semester and generate reports on attendance and marks.
    - Attendance management system – This link is displayed for all employees invariably. It has an interface for applying leaves for employees, which can be approved or declined by the concerned department head. Attendance and leave based reports can be obtained from this link.
    - ISO Document Link – Get students' attendance and marks based reports in ISO format.
    - Online ID card application – This system is used to apply new ID card for students. New ID card request should be applied by the particular student's class advisor. The ID card applied has to be approved by the admin and printed. The printed ID card will be dispatched to the stores department, where the card entry is approved and delivered to the student in person.
    - Network / Security management system – This system is primarily provided to change password for the employee. MIS administrator has special permission in this link to configure modules for employees.
    - Various intranet portals are created for students to disseminate their attendance, examination results and placement related activities.
    - The parents can access the details of their wards in online and also informed through SMS.

Quest for excellence:

- **Core value:**
    - One of the core values of the college is **"Character is Life"** in every phase of the academic process.

- **Teaching-learning process:**
  - New and innovative pedagogies are implemented for a better teaching–learning experience. For an example, a course on statistics is conducted totally online inclusive of assessments and end semester examinations.
  - Regular industrial visits / guest lecturers are arranged to update the latest developments in the relevant areas.
  - Faculty members are constantly encouraged to enhance their knowledge by attending FDP / MDP / undergo MOOC courses and are suitably rewarded.
  - Faculties are encouraged to use active learning tools in teaching learning process.
  - Project based learning are adopted in few courses.

- **Research:**
  - The college encourages the faculty members by providing incentives and on-duties to promote research.
  - Rewards / recognitions are given to motivate faculty members to offer consultancy / conduct research / share their expertise with other Institutions.

- **Consultancy:**
  - Teaching faculty and Technical supporting staff are encouraged to take up consultancy projects.
  - Departments arrange regular industrial visits and encourage the students to undergo industry based internship and training programs.

- **Extension:**
  - Institution has provided support in many aspects to the society through social clubs of KCT.
  - Our faculty and students have won many awards at the national level and state level in various co-curricular and extracurricular activities.

6.1.11 Give details of the UGC autonomous review committee's recommendations and its compliance.

S. No.	Period of Review	Comments and Recommendations
01	2007 – 2013	Class rooms coaching with practical sessions were recommended.
02		Participative method of learning between students and the faculty was recommended.
03		The practice of participative learning inside class room helps the students with is communication and personality development.
04		A Course on retail management was recommended for the MBA program.
05		It was proposed to go for 50:50 patterns for the internal and external evaluation for semester / Trimester examinations instead of 20:80 as suggested by Anna University Coimbatore.
06		Passing minimum for each course is 50% in the end semester / trimester examination and put together with internal marks the minimum is 50 marks out of 100.
07		Double valuation is to be done for each theory course centrally inside the college premises – one by an external examiner and the other by an internal examiner.
08		If the difference in the marks is more than 15% then the third valuation will be done by an internal faculty.
09		Among these three valuations the closest two marks are to be taken and the average of the two marks will be awarded for end semester / trimester examination of each course.
10		Since it is a double valuation, there will be no anomaly in marks after the publication of results – Students need not apply for revaluation or make any challenge.

S. No.	Period of Review	Comments and Recommendations
01	2013 – 2019	Under autonomy, the college has made several efforts to improve the examination pattern. The question papers are set as per Blooms Taxonomy. The college is following semester system and implemented choice based credit system (CBCS). Credits are introduced for industrial projects and human excellence. Question paper setting and evaluation of end semester examination answer papers are in the ratio of 50% external and internal subject experts. Academic audit is conducted in the end of every semester. Results are published well in time on the college

		website. Introduced fast track program from fifth semester onwards for the students who maintain a CGPA of 8.5 and above in fourth semester and have passed in all courses in first appearance to facilitate them to pursue their internship / industrial projects on a full time basis without any concern for theory courses in eighth semester.

Compliance - Addition of Retail Management Course in MBA curriculum is highlighted in the following table:

ELECTIVES OFFERED

FINANCE

Course Code	Course Title
MBA629	Security Analysis and Portfolio Management
MBA630	Merchant Banking and Financial Services
MBA631	International Financial Management
MBA632	Insurance and Risk Management
MBA633	Corporate Taxation
MBA634	Project Planning, Analysis and Appraisal
MBA635	Micro Finance
MBA636	Bonds, Derivatives and Commodity Market
MBA637	Strategic Cost Management

MARKETING

Course Code	Course Title
MBA638	Consumer Behaviour
MBA639	Services Marketing
MBA640	Market Intelligence and Research
MBA641	Brand Management
MBA642	Retail Management
MBA643	International Marketing Management
MBA644	Advertising and Promotion Management
MBA645	Logistics and Distribution Management
MBA646	Marketing Channel Management
MBA647	Customer Relationship Management

6.2. Strategy Development And Deployment:

6.2.1 - Does the College have a Perspective Plan for development? If so, give the aspects considered in development of policy and strategy

1) Teaching and Learning

Yes. The college has taken steps in the following areas:

- Laboratory up-gradation study and action plan
- Development of laboratories with industry collaboration
- Interaction with Institution within and off India
- The college has put in place strategic plan coverings aspects for individual development, holistic development of the department and the Institution. The strategic plan (target setting) is as stated below. The various aspects considered in development of policy and strategies are indicated in the plan.

Kumaraguru College of Technology,

Coimbatore -641 049

Department:

TARGET SETTING

(Academic Year)

Sl. No	Budget Head	Target				Outcomes	Proposed activities to attain the target
		Details	AP	ASP	Prof / HoD		
1.	R&D (Individual faculty contribution)	**1.1 Paper publication**					
		1.1.1 In national journal	01 in every 02 years			The faculty will be able to contribute towards attaining "Compliance" status under "faculty contribution criteria" of accreditation.	Conduct department level meetings on educating faculty on preparing papers.
		1.1.2 In international journal	01 in every 03 years				
		1.2 Grant in aid					
		1.2.1	• Faculty			• Modernization of	• Identify the

		Proposal applications / attend research methodology workshop	with ≥ 3 years experience- Min 01 per year (leading to an approved project once in 03 years)	laboratories through MODROD proposals. • These funding will promote research activity and consultancy works.	industries / Institutions to prepare joint proposals • Identify proposals to be brought under MODROD • Conducting programmes on preparing proposals • Preparing the hard copy of the proposal.
			• Faculty with < 3 years experience -Attend a workshop on research methodology	The faculty will be able to understand the process of doing research by selecting a suitable topic.	• Identify Institutions conducting workshops on research methodology • HoDs nominating faculty to attend these workshops
		1.3 Guide students to present papers			
		1.3.1 Publish papers jointly with a student in National and International conference (at an Institution higher than KCT)	6 / 12 / 18 papers for programs with 01 / 02 / 03 sections respectively.	The student faculty professional rapport will improve (leading to a culture of learning beyond the syllabus and understanding contemporary issues)	• Identify the students for preparing the papers. • Conducting a program on "how to write papers" for the students • Keep in track of the confidences being held • Preparing papers and sending them

					to the relevant destination
		1.4 Arranging guest lectures			
		1.4.1 Guest lecture of faculty (from an Institution higher than KCT)	01 / semester in all the courses they handle	The students will get an update on the application part of the course and latest trends.	• List the guest speakers identified for each course • Schedules the guest lecture and implement the schedule.
2.	Professional self development (by individual faculty)	2.1 English certification course	AP under probation (once only)	The faculty will be able to communicate better both orally and in written form	• Identify agencies conducting English certification courses. • Asking concerned faculty to applied for the courses.
		2.2 Technical certification course	• AP under probation (of before completion of probation) • AP/ASP – 01 in every 03 years	• Faculty will be able to handle laboratory courses in particular and in theory courses in alignment with today's requirements • Faculty will be able to contribute towards development of curriculum and syllabus.	• Identify agencies conducting various certification courses • Distributing the information to the faculty to make a suitable choice • Asking concerned faculty to applied for the courses.
		2.3 Internship in an industry related to	Min 01 week / year (AP/ASP/Prof)	• The faculty will understand the practical aspects of the courses of they handle	• Identify the industries and communicate with them • Allot faculty to

		their discipline		• Guide students to do industry based projects • Develop relationship with industry to take up consultancy work	undergo internship
		2.4 FDP (Min 05 days) attended	01 in a year (in an Institution higher than KCT) (AP/ ASP/ Prof)	• Faculty will be able to develop the knowledge and skill. To handle the course in a better manner	• Identify Institutions conducting FDP • Nominating faculty to attend these FDPs
		2.5 Seminar / workshop /conference attended	01 in a year (in an Institution higher than KCT) (AP/ ASP/ Prof)		

Sl. No	Budget Head	Target		Outcomes	Proposed activities to attain the target
		Details	No.		
3.	Training (by department)	3.1 Organizing FDP (Min 05 days) [FDP is training offered to faculty (Both internal and external) on a course (a course that is considered to be difficult to handle or a new course) that is in the curriculum of a program)	01 per semester	• Develop the knowledge and skills of faculty in a particular course • Develop rapport with faculty of other Institution	• Decide the course on which FDP will be conducted • Prepare the FDP pamphlet and send the information to various Institutions • Arrange for expert faculty • Prepare the course materials for participants • Conduct the FDP
		3.2	02 per	• Enhancement	• Identify the

		Organizing seminars / workshops	semester	of knowledge and skills by the participants	seminar / workshop / conference topic • Decide for whom it is being organized • Prepare the pamphlet and send the information to various Institutions • Arrange for expert faculty • Prepare the course materials for participants • Conduct the event.
		3.3 Organizing national conference (for industry, students or faculty	01 in each category every 02 years		
		3.4 Creating a center of activity for a thrust area in collaboration with industry (incharge with Ph.D. in that area) Note: Over the period the center has to evolve as a "Center of Excellence"	• 01 center of activity in the next academic year • Conduct min 02 training programs of 30 hours each certified by industry	• Faculty expertise will be put to use • Research activity will get channelized in the thrust area leading to creation of a Center of Excellence.	• Identify faculty to work in the center of activity • List the activities to be executed • Execute the activities.
		3.5 Program on open source tools	01 / year		
		3.6 Percentage of final year	10%		

		projects using open source tools			
		3.7 Training for lateral entry students	Totally 14 days in Maths / English	• The students will be able to adopt from diploma culture to college culture • The gap in mathematics and English between diploma and engineering will be taken care of to an extent.	• Prepare the schedule for conduct of the bridge course • Implement the schedule
		3.8 Value added course (assessed and certified by a 3rd party)	80% of the students to be certified every year	Students will be better prepared to face placement and other opportunities	Tutors to motivate the students and followup to ensure students enroll for value added courses.
		3.9 Training faculty on OBE and teaching pedagogy	01 per semester	Faculty will understand and implement OBE concepts during content preparation delivery and assessment of the courses they handled	• List the areas in which training is necessary under OBE • Identify the expert • Schedule the program and implement it
		3.10 EDP program (for students)	01 per year	Students will understand the process of becoming an entrepreneur	• Identify the agency to conduct the EDP program through KCT-EDP cell • Schedule the program and

					implement
		3.11 Panel discussions with industry experts (on program specific contemporary issues)	01 per year	Both the faculty and students will become aware of latest trends in their field	• Identify the contemporary issues • Identify the panelists • Schedule the program and implement
		3.12 Awareness program on issues of social concern and technological solutions (Ex. IT in man – animal conflict) (offered by external experts)	01 per year	Both the faculty and students will become aware of role of technology in solving issues of social concern	• Identify the issues of social concern • Identify the experts • Schedule the program and implement

Sl. No	Budget Head	Target		Outcomes	Proposed activities to attain the target
		Details	No.		
4.	R&D (by department)	4.1 Collaboration with Institution for research (higher than KCT)	01 per semester (02 per year)	The faculty will be able to contribute towards attaining "Compliance" status under "faculty contribution criteria" of accreditation.	• Identify the Institutions to collaborate with for the research thrust area • Approach the Institutions and chart out activity • Implement the agreed activities
		4.2 Industrial consultancy	02 per year (Sum total of revenue greater than		• Prepare documents to send to industries on

			Rs. 01 lakhs)		expertise available to offer for consulting • List the industries that will require such expertise • Send details to these industries and follow up
		4.3 Funded projects	03 projects / semester (35 / 60 / 75 lakhs for program with 01 / 02 / 03 sections respectively)		• List the funding agencies and the kind of projects they fund • Identify faculty to prepare project proposal for specific funding agencies based on their specialization • Prepare project proposal and apply for funds
		4.4 Student funded projects	Min 03 / 06 / 09 projects per year for programs with 01 / 02 / 03 sections respectively		• List the student project funding agencies and the kind of projects they fund • Identify faculty to prepare project proposal for specific funding agencies based on their

					specialization • Prepare project proposal and apply for funds
5.	Participation in competitions	5.1 Students taking part in design competitions	• Min 05 / 10 / 15 competitions for programs with 01/02/03 sections respectively	Students will be better prepared to face placement and other opportunities	• List the design competitions students can take part • Inform and motivate the students • Identify faculty to guide students and make them apply
6.	Professional society activities (super numery)	6.1 Program under the banner of Ex: ISTE / IEEE / SAE / ISOI / ISA	01 / YEAR	Students will be understand the need to be members in Professional society and how it will help them in their lifelong learning process	• Identify the activity to be conducted • Schedule the activity and implement
7.	Alumni interaction	7.1 Alumni interaction (Ex: Tech. / motivational talk, BOS activity, PAB activity, discipline committee, faculty recruitment	03 / semester	• Students will be able to link with alumni and think of ways of using the link for doing projects, to get ideas on job and higher education prospects, and career planning. • The department will be able to use the expertise of alumni in its BOS, academic	• List the potential alumni to interact with along with the purpose of interaction • Identify faculty to follow-up with each of the identified alumni • Schedule the interactions and implement

				and other activities	
		7.2 Alumni meet	01 meeting per year	Will promote better alumni contribution	• Schedule and conduct the meet
8.	Placement	8.1 Training students for placement in core industry	02 days for 2nd year and 03 days for 3rd & final year per semester	The students will be better prepared to face core placement opportunities	• Identify the core topics / courses and the corresponding faculty to conduct the training • Prepare the topic wise training material and consolidate • Distribute the material to the students to come prepared for the training program • Schedule the training program and implement
		8.2 Core company placement percentage	40%		
9.	Competitive exams	9.1 Taking up any competitive exam Ex: GATE, GMAT, UPSC	70% of the students (with output of 35% of total students securing more than 50% score)	The students will get opportunities in PSUs, get admission in premier Institutions for further studies and government high profile placements	• Download and provide the needful information on competitive exams to students • Motivate students right from the 2nd year itself • Identify the

					agencies in Coimbatore that provide coaching and see if they can come to KCT campus and train interested students • Schedule the coaching sessions and implement
10.	Internationa lization	10.1 Organizing international conference (by cluster)	01 every 05 years	• The faculty and students will get views of experts from across the globe on the thrust areas covered under the conference • It will contribute to get points in the accreditation process	• Form the clusters and a coordinator and office bearers for each cluster • Decide on the conference thrust areas for each cluster • Schedule the year in which the conference of each cluster will be conducted • Plan and conduct the conference as scheduled
		10.2 MOUs for faculty exchange	01 faculty exchange for a month per year	Faculty will get international exposure	• Identify Institutions to sign MOUs with • Interact with the identified Institutions • Sign MoUs and implement the agreed upon agenda

11.	Student project quality improvement	11.1 Training for students on preparing quality projects (by KCT project coordinators)	01 program for final year students	• Students will be able to understand and apply the process of preparing quality projects • Better placements for students	• Prepare the manual for use by students to help them do better projects • Schedule the training programs and implement
12.	Training offered by industry	12.1 Offer one credit courses for students	01 course for each year of UG in every semester	• Students will be able to understand the current requirements of the industry • Students will get training on contemporary issues and concepts	• Identify the industries, experts and the content to offer the courses • Interact and motivate the students to take up the course • Schedule the course and implement
		12.2 Internship	50 % of the students		
		12.3 In-plant Training	80% of the students		Motivate the students and follow up through the ward counselors
		12.4 Industrial Students' Projects	40 % of the projects		
13.	Accreditation initiatives	13.1 Applying for accreditation to NBA	All programs due for getting accredited	• The program that has accreditation will have better recognition and demand • Students under an accredited program will have better mobility	• Get training from in-house expertise on accreditation process • Ensure the availability of systems and documents necessary for accreditation by fixing responsibility for each faculty

					in the programme /department • Apply for accreditation and get activated the eNBA portal • Prepare the SAR • Get internal and external audits conducted • Submit the SAR online
14.	Training offered for industry	14.1 Offering training programs for industry participants on discipline related areas	01 program per semester	• Will strengthen the quality of faculty by making them understand industrial perspectives • Will promote better interaction with industry	• Identify the faculty who can offer training programs and the corresponding topics • Schedule programs and market them to relevant industries • Conduct the training programs as scheduled
15.	Archiving (e-Mode)	15.1 Department news letter	01 per semester	• Archiving of information • The department will get better publicity and branding	• Form internal system and team for archiving • Prepare reports and news letter as planned
		15.2 Quarterly report	04 per year		
		15.3 Annual report	01 per year		
16.	Infrastructure	16.1 Laboratory up-gradation	01 laboratory per	The laboratory will get updated to meet the requirement of	• Identify the laboratory to be upgraded in

			semester	statuary bodies and also become learning centers for students to do projects and cater to learning beyond the syllabi	each semester • Prepare a plan for up-gradation • Implement the plan
		16.2 Equipment maintenance	All equipments in the department	The equipments in the department will be reliable and available for use.	• Identify the equipment that is required to be repaired and maintained • Arrange for the third party for repair and maintenance • Prepare a schedule and implement
		16.3 Library books	Books to be prescribed for purchase by library to meet AICTE norms	Enough books to be available in the library for use and to meet AICTE norms	• Get the minimum number of books prescribed from KCT library • Each faculty to prescribe books and the requirement of all to be consolidated • Proposal to be put up to library and to be followed up
17.	Department publicity	17.1 Department website and blog	01 website and block for each department	• The activities of the department will get archived • The activities of	• Chart out the menu for the website and blog • Get a

				the department will get wide publicity	professional to design the website and blog • Launch both of them
18.	Parents meeting	18.1 Organize parents meeting	01 per semester (immediately after announcement of end semester results)	• Will improve rapport with parents • Students can be helped at the right time	• Plan the and schedule • Implement
19.	Faculty / staff relations activities	19.1 Movies	01 per semester	• The human relation among the department faculty and staff will improve • The effectiveness of the department will improve	• Plan the events and schedule • Implement
		19. 2 Get-togethers (only faculty and staff)	01 per year		
		19.3 Get-togethers (with family)	01 per year		
20.	Student higher education	20.1 PG in India	20% of the class strength	Students will be able to opt for better carriers	• Prepare a manual on higher study opportunities of India and Abroad (with the process for admission) • Provide training for students as required
		20.2 PG Abroad	10% of the class strength		
21.	Co-curricular activities	21.1 NCC	Enroll 5% of the students	The students will get a holistic perception of today's requirement and the needful grooming	• Motivate students to take part in a regular basis • Class advisors and ward counselors to follow up on a
		21.2 NSS	Enroll 10% of the students		
		21.3 Techno-fests of other	80% of the students to		

		Institutions	take part		regular basis
22.	Extracurricular activities	22.1 Sports	Enroll 5% of the students	• Students will be able to improve their health • Potential students will get opportunities in the carrier through sports quota	• Motivate the students on a regular basis • Class advisors and ward counselors to follow up on a regular basis
23.	Green campus	23.1 Consumption of electricity		Optimal use of scares resources	All KCT -ians to be motivated
		23.2 Consumption of paper (Stationery)			

2) Research and Development:

The interaction with various academic Institutions, research establishments and industry on academic research, sponsored research and/or consultancy helps in identifying relevant new technologies and widening the knowledge base. Such interaction becomes an integral part of the innovation process where both the academic Institution and the innovators are benefited. At the Institutional level, it helps in infrastructure development through resource generation and at the professional level, faculty establish contacts through participation in conferences, workshops, seminars and meetings of professional bodies.

The R& D policy was framed by considering following factors:

1. Faculty quality/qualification improvement
2. Publication and generation of IPRs
3. Travel Grants for attending conference
4. Reward points in PADS towards sponsored research from various external funding bodies.
5. Seed funding support from the management.
6. Consultancy

Based on the above six criterions, the college has formed the policy for research and development which is given below.

1. **Academic Research Program by Faculty**
    - PhD / M.S. (by research) registration :
        - For newly recruited faculty there will be a wait period of two years to complete probation before registering for Ph.D / M.S. (by research) programme. Incentives for registered scholars are provided as detailed in HR Policy.
        - Faculty can register for course work for Ph.D / M.S (by research) with KCT autonomous programmes if either the candidate or supervisor is working in KCT.

2. **Publications**
    - Faculty in the cadre of Associate Professor must publish at least one paper

(Conference / Journal) in one academic year, either as first author or as co-author Each Faculty publication in reputed National / International journals that are indexed in SCI with impact factor (Thomson Reuters) is appreciated in the Teachers' day celebration. For attending conferences to present papers, registration fees and travel will be supported by the college as per HR Policy.

3. **Sponsored/ Funded research from external agencies**
    - The faculty members are encouraged to apply for grants from various funding agencies such as DRDO, DST, ISRO, DBT etc., and based on their grant, the reward points will be given in Performance appraisal developments systems (PADS).
    - Based on funding agency and HR norms, travel and workload reduction will be considered.

4. **Management Funded Projects**

KCT Management will provide fund to a maximum of Rs.2 lakh on submission of formal project proposal and review of the same every year.

5. **Purchase for Sponsored Projects**

The purchase of capital equipment / software for a sponsored project needs to be approved by a purchase committee constituted by the HOD in consultation with the Principal Investigator

(PI). Any approval by the committee should be final and followed by prompt purchase order. The consumables purchase for such projects can be initiated by PIs and the purchase order will be placed immediately, subject to the availability of project funds. The time bound activities to comply with the instructions of sponsoring agencies have to be honored.

6. Consultancy / Testing

- Consultancy work can be taken up by faculty to solve problems referred by industries and government agencies, wherein the professional expertise and knowledge of the faculty members as well as the infrastructural facilities of the college will be utilized. For undertaking such consultancy work, 50% of the total consultancy fees will be given to the faculty who will share the amount with other associates involved in the work in an appropriate manner. 50% of the total consultancy fees will be paid to the college.
- Faculty can undertake activities like testing/calibration of instruments etc., for industries/ Govt. agencies. For undertaking such activity, of the total testing charges levied, 25% will be given to the faculty and 15% will be provided to non-teaching staff involved in the work. The remaining 60% will be paid to the college.

7. Filing of Patents

- Filing of patents based on research findings is prestigious both to the individual and the Institution. Hence, support will be provided by the Management to file the patent. Details of patenting procedures with the formation of college IPR Committee are provided in proposed KCT Policy for Patenting.

3) Community engagement

The Institution has an ultimate goal of **engaging the enthusiastic students**, experienced Faculty and talented young professionals of KCT in serving our rural communities which facilitates meaningful **social engagement.** These activities are carried out through various groups such as **NAMADHU PANGU, KARE.**





Activities of Namadhu Pangu

The policy and the events organized by these groups are framed by considering following factors:

1. Education for the poor
2. Social health it includes women health as well
3. Environment
4. Nature
5. Women empowerment.
6. Adhoc Need based relief system such as KARE for Cuddalore and Chennai floods.

Current projects under various heads are listed below:

1. Education
    i. Learning centre at Udayampalayam Village supporting academic and social development of around 100 children.
    ii. Infrastructure support to schools around
2. Health
    i. Measurement and data base of 600 school children.
    ii. Providing protein supplements to 600 school children every week.
    iii. Immunization
    iv. Exposure visits and interactions
3. Environment
    i. Clean Village
    ii. Plastic free environment
4. Women Empowerment
    i. Economic development
    ii. Recognition and awards
5. Nature
    i. Bird watching and documentation by children
    ii. Planting saplings

The way ahead for Namadhu Pangu: in the next five years.

- ✓ Bringing in more student's volunteers and involve them in social rebuilding activities.
- ✓ Initiating action plans for "Plastic Free Campus".

<u>Kumaraguru Action For Relief and Empowerment (KARE)</u>

KARE was formulated in the month of November to support and aid the flood affected people, it started in KCT, Coimbatore but later people started contributing from all over India for this cause. Its main objective is to support people who are affected by any natural

calamity or otherwise. **KCT-KARE, SSN** (Suddha Sanmarga Nilayam) and **volunteers** across India (Bangalore, Karur, Tiruppur, Trichy, Sivagangai, Namakkal, Erode, Dharmapuri, Karaikal, Madurai, Coimbatore) were able to cover **50+** villages and reaching out to **10000+** households and distributed material worth of **One Crore** Rupees.

The way ahead for KARE:

- ✓ To equip people with ideas and skills that helps them to take care of their own safety & economic needs.
- ✓ Empower people with effective Water Management techniques.















Glimpse on various community engagement programs

Community Engagement activities by KCT Business school

Social Immersion Project

KCT Business School places a heavy emphasis on innovative curriculum design to advance students knowledge, skills and values. To enhance the social responsibility and involvement in the community and to fulfill the dreams of our beloved chairman Aruturchelvar Dr. N.Mahalingam, whose mission was to serve the community, students of KCT Business School (KCTBS) involved in Social Immersion Projects. The Main objective behind the project is to sensitize students on civic and community issues, to enhance their interpersonal skills and work as a team, to understand the problems of marginalized community and enhance their status through capacity building. The theme of Social Immersion Project, 2015 is "Building Bridges of Inclusion" and the project focuses on four different areas like Education, Environment, Economic and Health.

181 students undertook socially relevant and impactful projects from Nov 2nd, 2015. The period of the project was between Nov 2nd – Nov 6th, 2015. Students grouped themselves into 6 member teams and carried out these projects in association with NGO's like Siruthuli, Rural People Welfare Trust, ARC Foundation, Douglas Memorial Children's Home, Sri Annai Karangal, Coodu Organization, Don-Bosco Anbu Illam, Family Care, Agni Foundation, Anbu Charities, Village Knowledge Centre, Vidial Charitable Trust, Imayam Welfare Association, Happy Hearts, No Food Waste, Spice Foundation, Lead India 2020, G18, Alai Foundation , 5th Pillar and Families for Children. With the guidance of the NGO's, students carried out socially beneficial projects like Rain Water Harvesting, Solid Waste Management, Education to tribal children & orphaned children, Women Empowerment, Helping homeless orphaned children, Enhancement program for hearing impaired, Plastic free Kovai, Hygiene for girls, Cultivating the knowledge of Bio Manure, Behavioural training for school children, Empowerment of women through Mushroom cultivation, No food waste, Smart city portal, Accelerate sanitation coverage in rural areas, Organic farming system, Waste management, Defeat Dengue, Pathai- Life skill education and Corruption free India.

Through these projects, students will not only be in a position to practice HR and Marketing skills for building the community but will be better citizens by knowing and finding solutions for certain problems in the community. It will also help to cultivate a personal philosophy to make a positive change within a group and community.



A part of Social Immersion Project by KCT Business School

Batch 2014 – Theme: You can make a difference

Community engagement is a broad term for the process of creating and sustaining intentional partnerships that benefit members of the broader community while also meeting learning goals for students.

The objective of the project is to provide opportunities for the students to develop

their capacities to become participating and contributing citizens and to prepare them for effective participation in community affairs in a diverse society through promotion of social and economic justice. The project was carried out from February 23, 2015 to March 1, 2015. The Project Partners were Centre for Tribal and Rural Development Trust, Save the Globe, VIDIYAL, G 18, Vasan Eye Care, CREED, Friends Tailor, Rural People Welfare trust, Indian Red Cross Society, Sankara Eye Foundation, Good Shepherd Health Education centre, A Ray of Hope (AROH), Siruthuli, NIA Trust, Rotary Club(North), Hill People Development Organization and ICTC Counsellor Corporation Hospital.

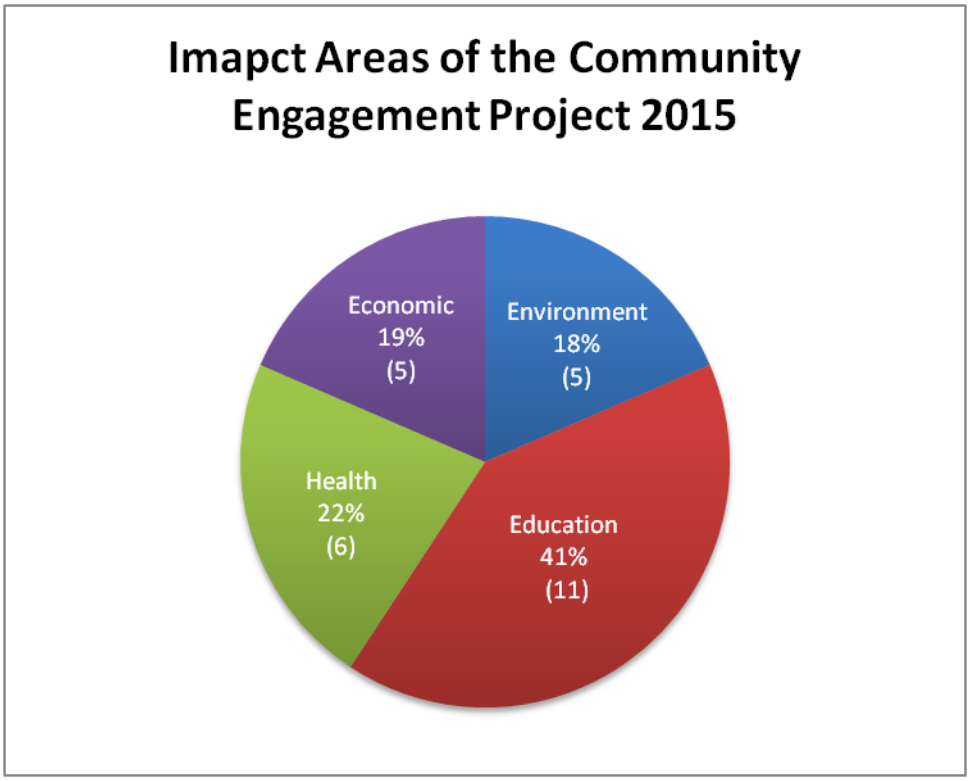
The project theme for 2015 was "You can make a difference" and focused on 4 different impact areas: Environment, Education, Health and Economy. The objectives of the study were:

Environment: To create awareness and help the identified communities for waste management and a cleaner environment

Economic Impact: To enhance the economic capability of the identified communities, through awareness, education, skill building, connecting with partners and managing personal finances

Education: To better the knowledge, skill, capabilities of the students and teachers and also support in infrastructure development for identified schools

Health: To provide health awareness and checkups and also build a support system for identified communities



4) Human resource development and planning

Planning and the policy toward the human resource have been formulated by considering the following factors;

- Recruitment
- Service conditions
- Code of conduct
- Working Schedule
- Performance Appraisal
- Leave rules
- Faculty development
- Service benefits
- Grievances redressal

5) Industry Interactions

The Industry Institute Partnership Cell (IIPC) synergizes the academic activities of this Institution with the needs of all types of industries with strategic planning and implementation. Since its inception in the year 2000 with grant-in-aid from AICTE, KCT-

IIPC is functioning efficiently thanks to the excellent rapport developed with the industries in and around Coimbatore.

The cell was initiated for;

- Conducting technical consultancy to the specific needs of the industries
- Providing Training for industrial personals
- Offering courses on the latest developments in engineering and technology to practitioners
- Development activities in collaboration with industries and governments
- Imparting in-plant training to students and faculty members at industries
- Collaborative project works
- Signing Memorandum of Understanding (MoU's) with industries



MoU between KCT and CAMERON

6) Internationalization

The Office of International Relations takes care of internationalization of our Institution and maintains archives of all events related to international activities.

Objective

To synthesize the learning and demonstrate global competencies by promoting intellectually stimulating research environment through campus internationalization.

To develop strong and sustainable international partnerships with research laboratories, academic Institutions, industries and entrepreneurs.

Vision

To become a globally renowned intellectual hub networking with research and academic centers for collaborating and augmenting competent resources and career opportunities worldwide.

Mission

- To learn best practices by collaborating with universities
- To develop sustainable relationship with research laboratories
- To develop MOUs and foster exchange programs

Towards realizing these objectives, the following **activities had been executed by OIR:**

Visits of executives from foreign universities for collaboration Training the Trainers

Training the Trainers workshop for faculty was organized by the department of Information Technology in January 2012.



Trainer – Ms. Helene Hoi Ying Fung, Strategic Planning Manager, IEEE Region 10, Singapore

E- Governance for Developing Countries

- A state level faculty development program was organised by Department of IT on 11.12.12 in collaboration with IEEE Computer Society.
- Mr. John Walz, President, IEEE Computer Society and Mr. H.R. Mohan, VP (Systems), The Hindu were the trainers.


KUMARAGURU COLLEGE OF TECHNOLOGY



International Relations Hub –Central Library



Inaugurated by Ms. Lynne Heslop, Senior Education Advisor, British Council



International Outreach Program Association with CSI-Coimbatore Chapter and Edinburgh University – UK

- Topic : Intelligent Computing – a 21st Century outlook
- Organised by CSI and University of Edinburgh, UK
- KCT acted as one out of the four Hubs
- Professors Visited from University of Edinburgh, UK:

  Prof. Dr. Sethu Vijayakumar

  Dr. Iain Murray

Dr. Sharon Jane Goldwater

Prof. Dr. Michael Paul Fourman

- Topics on which Lectures and competition were conducted:
  - Robotics
  - Machine Learning
  - Natural Language Processing
  - Information theory




IEEE International Workshop on Women in Electro Magnetics Antenna Design, Wave Propagation and Applications organised jointly by IEEE Women in Engineering and IEEE Antennas and Propagation Society , March 2013

Professors Visited:

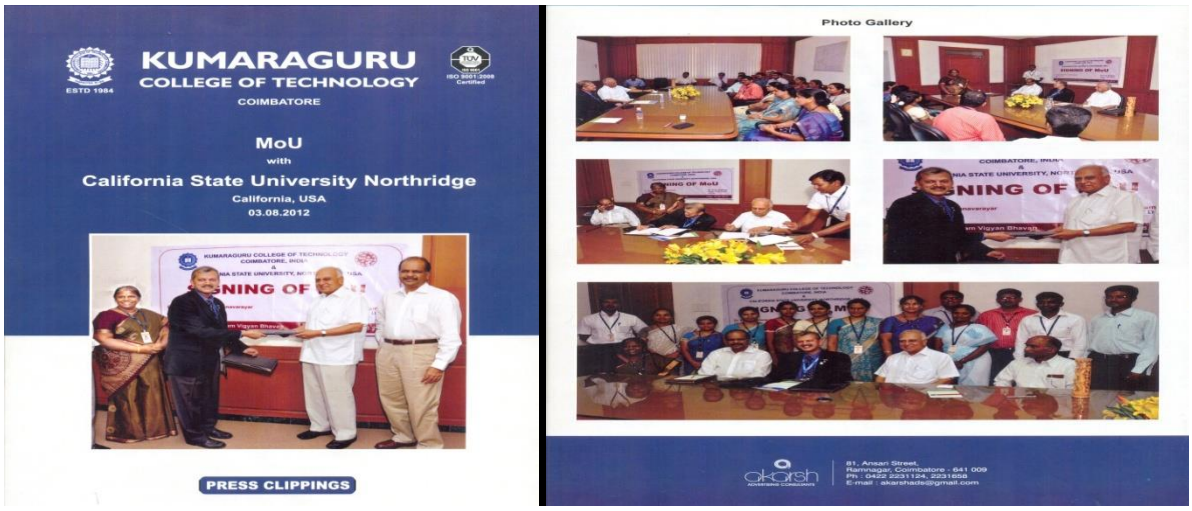
Dr. Parveen wahid, EECS Dept, University of Central Florida, USA

Dr. Magdalena Salazar Palma, President of IEEE, Antenna propagation Society



Women In Electromagnetics ’13

- Department of Information Technology signed an MoU with the School of Electrical and Computer Engineering, California State University for Collaborative research in 'Assistive Technologies' on 4th August, 2012
- Dr. S. Ramesh, Dean of Computer Science and Engineering, California State University visited the college on 4th August, 2012 to inaugurate the collaboration.



MoU with California State University Northridge

International conference on Intelligent Interactive Systems and Assistive Technologies 1-3, August 2013

Speakers:

1. Dr. S. K. Ramesh, California State University Northridge, California
2. Dr. C. T. Lin, California State University Northridge, California
3. Dr. Shengdong Zhao, NUS, Singapore
4. Dr. Quoc Bao Vo, Swinburne University, Australia
5. Priya Kuber, Arduino India
6. Mr. Sriganesh Madhavanath, HP Laboratorys, India
7. Mr. Amit Anil Nanavathi, IBM Research India
8. Er. T. S. Rangarajan, TCS







SS12 Asia Project Competition

- Organized in Collaboration with International Team Project : Possibility based in Europe in two phases.
- THEME:

  "Education and Entertainment Devices for Accessibility"
- FINALS DATE : 01.08.13
- Pilot Universities Participated
  - Kumaraguru College of Technology
  - Easwari Engineering College
  - Periyar Maniammai University
  - St. Xavier's College of Engineering
  - University of Peradeniya, Sri Lanka.
  - Usman Institute of Technology, Pakistan
  - Bangladesh University of Engineering and Technology Dhaka, Bangladesh
- Winning Project : Voice Operated Chess , Easwari Engineering College





International Conference on "Advances in Textiles, Machinery, Nonwoven and Technical Textiles", 15th – 17th December, 2011

The 3-day conference was jointly organized by the Department of Fashion Technology and the Texas Tech University, Lubbock, USA. The conference covered numerous topics spanning across the width and breadth of textile industry such as textile fibres and yarns, textile chemical processing, characterization of textile fabrics, bio-textiles and surface modification, clothing comforts, moisture management and plasma treatment, medical textiles, textile composites, nanotechnology in textiles, and textile recycling and recovery. Renowned speakers from reputed Institutions in India and abroad including the US, UK, Australia, Germany, Kazakhastan presented research papers on these topics. A poster session was organized to encourage students gain an in-depth perspective in textiles and allied fields.







KCT – Australia

- **Austrade Team - Michael Carter and Vijay Subramanian of Australia Trade Commission along with the following university representatives visited on 24.11.12**
  - Priya Kamineni – Bond University.
  - Dr Padmanesan – University of NSW – SPHCM.
  - Pawan Solanki – Deakin University
- **Faculty from Swinburne university visited our campus on 24.12.12**
  - Sebastian NG from ICT faculty
  - Ismat Hijazin from Engineering faculty
- Discussion about the possible collaborations.
- **Dr. Bao Quoc Vo** was a speaker for the International Conference on "Intelligent Interactive Systems and Assistive Technologies" in August 2013 and gave a speech on their research in the area.

Dialogue on collaborative research is going on.



International Symposium on "Emerging Trends in Plasma treatment of textiles and Production of Nanofibres", 8th January 2014

The symposium comprised of two papers namely "Plasma Processing of Technical Textiles" and "Functionalized Nanofibers and Advanced Applications". The papers were presented by Dr. Seshadri Ramkumar, Texas Tech University, Lubbock, USA. Through the first paper, the speaker discussed the basics of cold plasmas and their application on nonwoven materials to improve its porosity selectively for medical applications while the second paper covered topics including the production of nanofibres through electrospinning and the properties of as-spun nanofibres. The session was more interactive with participants from colleges in and around Coimbatore.



Visit of Jeff Hoffman

- Jeff Hoffman, the renowned entrepreneur –speaker gave a lecture on "Ten Keys to Entrepreneurial Success" on 09.12.13



Visit of EIT , New Zealand

Mr. Finlay Hamilton, Senior Lecturer of Eastern Institute of Technology, New Zealand paid a visit to KCT and interacted with faculty and students on 15.02.13.



Visit of SCAD, Hong Kong

- Mr. Jack Muir, International Admission Representative,Savannah College of Art and Design, Hong Kong and Maken Payne who is a fashion designer and works in the Office of the President, SCAD visited KCT on 18.12.12



Visit of David Taylor, Manchester Metropolitan University, UK, Senior Lecturer On April 25, 2013



An international workshop on "Ideas, Creativity and Entrepreneurship" was conducted on April 25, 2013. This was facilitated by Mr. David Taylor, Senior Lecturer of

Manchester Metropolitan University, UK. Over 40 participants, including a few first year engineering students enjoyed and experienced a new way of thinking and doing things creatively for around half a day.

Visit of Dr. Sue Shaw, Manchester Metropolitan University, UK, Head Of The Department and Associate Dean, Teaching and Learning On February 10-12, 2014.

Dr. Sue Shaw, Head of the Department and Associate Dean, Teaching and Learning, Manchester Metropolitan University Business School, UK visited the campus of KCT Business School from February 10-12, 2014.

During her visit, she facilitated a FDP on "Curriculum Design & Teaching-Learning", she addressed the MBA 2013 batch on the topic "International HRM", had a discussion with the faculty of KCT.BS She also had detailed talks with Dr. Vijila Kennedy, Director and Shri. Shankar Vanavarayar, Joint Correspondent on building association between MMUBS and KCTBS



Visit of Dr. Takako Hashimoto, Chiba University of Commerce, Japan, Chair, IEEE Women in Engineering

Dr. Takako Hashimoto represented her university in discussing with us the possible collaboration for research activities. The department of Information Technology had taken on this initiative and Dr. Hashimoto was invited to visit the department during the morning session on August 5th 2014 and to look at the laboratory facilities and class rooms. Later she had discussion with the faculty about the department activities and research developments. She was then invited to the KCT Business School to discuss the possibility of research collaboration with the University. Discussion was also made on the teaching and learning methodologies and the assessment methods in Chiba University.

On 06th August, Dr. Hashimoto visited the Fashion Technology Department to discuss about the possible tie-ups with the university. This was followed by a campus tour of KCT where she had a glimpse of the various departments and the in-house residential areas.



Visit of Dr. Jimmy Gandhi, Director, Ernie Schaffer Center for Manufacturing and Entrepreneurship, California State University, Northridge 12th and 13th January 2015

Dr. Jimmy Gandhi was the resource person for the certification course on Innovation and Entrepreneurship offered by California State University Northridge. 35 students attended the course. Business startup methods were discussed but also the struggles in starting and problems which we will face after the startup were also dealt with such ease. He showed videos, presented slides, gave hand-to-hand explanations on the topic for better understanding.

The first day consisted of sub - topics such as objectives required for a startup and also the difficulties when dealing with an already famous product. The second day was very much based on the venture capitalists, competition among sellers and buyers, and getting the patent rights or copy right at the right time.





Visit of Gary Sussman On 25th January 2015.

Dr. Gary Sussman, representative of Tel Aviv University was in the campus on January 25, 2015. Dr. Gary had talks to discuss collaboration with KCT Business School like Student Exchange, Executive MBA Programs etc

Visit of Seth Mersky on 24th February 2015.

Mr. Seth Mersky, Managing Director- ONEX Partners, Toronto Canada visited the campus on February 24, 2015. Mr. Mersky an Investment Banker with plenty of experience in management, investments, finance and entrepreneurship addressed the students of II MBA on the skills required for entrepreneurship

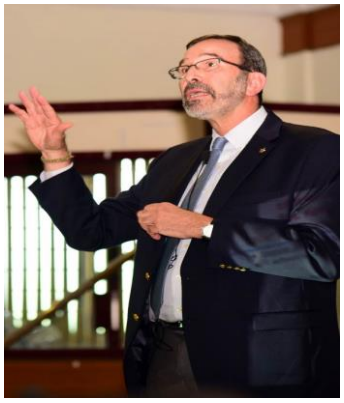


Visit of Joseph Klafter on 27th March 2015 for Graduation Day of MBA and MCA



Dr. Joseph Klafter, Vice Chancellor of Tel Aviv University
Faculty interaction on 28/03/2015

Visit of Gadi Ariav on 6-7th August 2015.



Prof. Gadi Ariav, Head-Max Perlman Centre for Global Business, Tel Aviv University Israel was in the campus on August 6-7, 2015. His visit focused on promoting & encouraging the entrepreneurial spirit and ideas of the students. He inaugurated LEED the entrepreneurial Club of KCT on August 6, 2015 and also facilitated a Faculty Development Program on Entrepreneurship on August 7, 2015

Awareness programmes for students on studies abroad

The program was conducted by the OIR on higher studies abroad on 08/10/2014. Around 200 students attended the workshop. Dr. M. Ramalatha, Head of OIR explained the objectives, mission and vision of the committee and how the OIR would help students in their pursuit of higher studies abroad. She explained about the activities planned by OIR.




International education fair at KCT

The Office of International Relations at KCT organized an International Education Fair for the students. This program gave the students an insight into the universities and the procedures for admission to these universities overseas. Around 150 students participated in the education fair.

Holland: Ms. Sudha Sudeep, Senior Education Promotion officer, Nuffic Netherlands Education Support office, India, addressed the students and gave them information on the various programs available, Tuition fee structure and scholarship schemes. The students were also informed that the courses were taught in English and that Dutch was not compulsory, but free Dutch classes were also available.

France: Ms. Tina Joseph Jacob, Educational Adviser, CAMPUS FRANCE, Chennai, interacted with the students and informed them that about 800 courses were available for engineering graduates comprising mechanical, aeronautical, mechanical and other disciplines. Management courses were highly recommended. The classes consisted of few students with intense teaching. She explained the various government funding schemes, scholarships available and the approximate tuition fee.

USA: Prof. Dr. Jey Veerasamy, Director of center for CSE education and Outreach, University of Texas, Dallas gave the students an interesting insight into admissions and fees structure in the US Universities.

United Kingdom: Ms. Carol Mc Farlane International Officer, University of Lincoln explained to the students the criteria for admission like the IELTS exam and score required. The university is associated with Siemens and other core companies and has well established laboratorys like Robotics and Artificial Intelligence as well as research.

Ms.Angi Yap from TMC academy, **Singapore**, Mr.Kumara Raj, HELP University, **Malaysia,** Mr.Ashwein Chakkraverthy, University of Nottingham, and Mr.Shakil Shaikh, M2

academy, Singapore gave the students a presentation on the opportunities for admissions abroad.

Student interaction sessions with delegates from international Universities. Student Awareness program on higher Education in Abroad 22/10/2014, USA. Around 250 students attend the program. Delegates from US universities like Adelphi University, Eastern Kentucky University, Grand Valley State University, Oklahoma City University, interact with the students.







Holland

Sudha Sudeep, Holland Embassy visited on **18/10/2014 and 29/01/2015**

Around 250 students interact with her

France

Sharmila Radjasegarane Education Advisor – Campus France – Chennai interacted with the students on **15/12/2014**

Tina, French Embassy visited the campus and interacted with around 150 students on **29/01/2015**

Webninar -"Awareness program on overseas higher education and job opportunities" on 31/07/15

A webinar was organized on 31/07/15 for all the undergraduate students who aspire for overseas higher education and job opportunities. It was organized in the B Block Seminar Hall from 10.10 AM – 1.00 PM. The webinar was attended by 80 students the webinar was organized by the ALDA (Alumni database) team of the Office of the international relations, KCT. The organisors were Prof. Sharmila Deve, Associate Professor/EEE, Prof. Roshini Varghese, Assist. Professor and Prof. V. Bhanu Rekha, Associate Professor/FT

Name	Passed out Year/Dept	Higher study/ University name	Employement details
NISHANTH.A.S.	2010/EEE	MS- (Electrical Power Engineering) (2011-2013)/ University Of South Australia, Adelaide, Australia	1. Manager - Marcellina's Food Chain Company (2013 - march 2015) 2.Business Associate, Live tutor solutions (P) LTD.,
Cibi Vishnu	2014/EIE	M.S. (Environmental and sustainability engineering) / University of Colorado, USA	-
Jiju Vijayakumar	2013/IT	M.B.A., Institute of Management Technology FZ LLC	Marketing and Project Coordinator, Stork, Technical Services, UAE



The various topics that were deliberated and discussed during the interactive session with the alumni included:

- Various Top ranking overseas universities
- Best Courses available
- Research opportunities in core engineering
- Admission procedures and Requirements
- Pre requisites for admission
- Scholarships
- Part time jobs
- Overseas job opportunities
- Pre requisites for jobs
- Environment and working Culture at universities/Company
- Top universities and Job opportunities for specific specializations

Collaborative Activities with Professional Bodies

EPICS in IEEE (20th & 21st of April 2015)

The workshop on "EPICS in IEEE" organized by IEEE Educational Activities in Kumaraguru College of Technology on 20th & 21st of April 2015. The sessions and interactions emerged made the workshop vibrant and brought out the modalities and benefits of implementing the EPICS in IEEE in the higher Education Institutions. The takeaways from the workshop will bring visibility to the Institutions and the workshop created a network of likeminded individuals working for creating technologies for the benefit of the society.

Speakers

Saurabh Sinha, IEEE VP: Educational Activities Board

SK Ramesh, Chair: IEEE Pre-university Education Coordinating Committee

Nicholas Kirsch, Chair: EPICS in IEEE Committee

William Oakes, Purdue University

Yvonne Pelham, IEEE

Doug Gorham, Managing Director: Educational Activities

VIneeth Vijayaraghavan , Director (Research and Outreach) at Solarillion Foundation

Ramalatha Marimuthu, HOD/IT





Visits to University on Exchange

Visit to UK through UKIERI funding, February 19, 2013 to March 14, 2013.



Dr. Vijila Kennedy, Director, KCT Business School, was awarded faculty mobility funding from UKIERI of British Council and was hosted by Manchester Metropolitan University, UK for a 4 week visit which was from February 19, 2013 to March 14, 2013.

The primary objective of the exchange programme was to build a sustainable Human Resource Development in education system through partnership. The 4 week visit enabled not only to achieve the above objectives but also gave an opportunity to have many more discussions in the areas of research, academics, student and faculty mobility. A better understanding on the various process of MMU was gained. This visit has given the opportunity to widen the existing MoU between the two Institutions.

Three other Universities were visited during the period of stay in UK – University of Worcester, University of Derby and Aberystwyth University. MoU with University of Derby and Aberystwyth University has been initiated for research, faculty and student mobility.

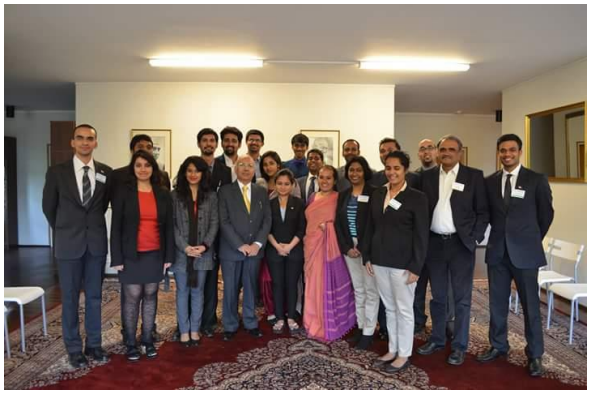
International Field Trip to Malaysia, January 29- February 3, 2015

35 students of II MBA Batch 2013-15 went on an international field trip to Kuala Lumpur, Malaysia from January 29- February 3, 2015. As part of the Cross Cultural Management course, students visited



Malaysia to study the cultural differences within Asian countries. They also visited TAMCO Switchgear (M) SDH BHD and to HELP University.

Participation in 5th Euro-BRICS conference and the Euro-BRICS Young Leaders Summit organized by LEAP/E2020 in Helsinki, Finland, June 8 – 9, 2015



Dr. Vijila Kennedy participated in the 5th Euro-BRICS conference and the Euro-BRICS Young Leaders Summit organized by LEAP/E2020. The Conference is titled "Regional Integration as a Model for XXIst Century MultiPolar Global Governance" will be held in June 8 – 9, in Helsinki, Finland. She presented a paper on "Student Mobility and Multicultural Global Citizenship". She also visited St. Petersburg, Russia along with the summit delegates.

Collaborative visit to Tel Aviv University, June 2015

To establish an association with the Tel Aviv University, Dr. R.S Kumar, Principal and Dr. Vijila Kennedy visited Tel Aviv University in June 23, 24 & 25, 2015 and had discussions with the Deans and Heads of the Departments

Details of Discussions - Tuesday, June 23, 2015

Prof. Gadi Ariav	Head, Max Perlman Centre for Global Business, Academic Director, Business Consulting MBA concentration Tel Aviv University Business School GadiA@tauex.tau.ac.il https://en-recanati.tau.ac.il/profile/gadia
• Discussions on his visits to India, Association with IIM-B, Thapar University, Business Consulting MBA concentration, Research in Innovation, setting up a consulting desk in Coimbatore • Has travelled to India twice in the last 2 years. • Has visited Tech Mahindra previously. • Likes to travel to India Further steps • He has accepted the invite to visit KCT in August, 2015. The proposal is to conduct two events – one for students of KCT and another for the entrepreneurs of the region • During the visit to KCT, to explore further associations – including on Entrepreneurship.	

Prof. Daniel Chamovitz	Dean of the Faculty of Life Sciences, TAU dannyc@tauex.tau.ac.il https://en-lifesci.tau.ac.il/profile/dannyc
Prof Nir Ohad	Director Manna Center Program for Food Safety & Security niro@tauex.tau.ac.il https://en-lifesci.tau.ac.il/profile/niro

- Discussions on research, Summer Schools, Masters Program
- 3m/6m summer courses also available
- Multi & interdisciplinary specializations for food security including law, geography, physics & Engineering.
- Development of small farms, drip irrigation projects, native cereals
- Have expertise in Thilapia (Fish) breeding in fresh water.
- Prof. Daniel is planning to be in Chennai in August 2015 for CII conference on life sciences.
- Start ups and Industry will also be present at the conference

Further steps

- KCT Biotech students to apply for Summer Institute in Food Safety and Security. 1-2 weeks courses with credits. Scholarships available
- Promote *Plant Biology with Emphasis in Food Safety and Security (MSc)* with KCT Biotech/ VIA. Tuition assistance through internship arrangement.

https://international.tau.ac.il/msc_plant_sciences
http://foodsecurity.tau.ac.il

Participation in7th BRICS Students' Meet and International research conference organized by Association of BRICS Business Schools (ABBS) in Moscow, November 11-13, 2015



7th BRICS Students' Meet and International research conference organized by Association of BRICS Business Schools (ABBS) along with Federal Financial Monitoring Service, held from November 11-13, 2015 at National Research Nuclear University "MEPhI", Moscow was attended by 2 faculty and 5 students of II MBA (Batch 2014-16). The core objective of the event, was to invite students and faculty of B- schools from BRICS countries to join hands in furthering business education

Visit to Tel Aviv University for Engagement Discussions by Mr. Shankar Vanavarayar, JC and Mr. Ravi, Head of PMO

Date of meeting	Oct 24-27, 2015
Delegates	Prof. Joseph Klafter, President, TAU Dr. Raanan Rein, Vice President, TAU Dr. Gary Sussman Mr. Shankar Vanavarayar, Joint Correspondent, KCT Ravi Kandasamy, Head - PMO, KCT
Objective	Explore the various avenues for partnership with TAU
Visit Coordination	Ms. Inbal Kohali

International Visits for partnership discussions by Mr. Shankar Vanavarayar, Joint Correspondent, KCT– Netherlands, Germany, UL

MSM, Netherlands	
Date: 30.10.15	Meeting with: Ms. Kovacs and Dr. Stuart J.Dixon
Objectives of visit	• Explore dual MBA programs with KCT • Introduce INK and explore possibilities of projects
Topics Discussed	• Dual MBA • Executive Programs offered by MSM • UG semester abroad
Outcomes	• Dual MBA with KCT • Ready to provide any certification program based on our requirement • UG semester abroad
KCT (with timeline)	• UG semester abroad from March 2016 • Dual MBA from June/July 2016

RWTH TIME Chair	
Date: 29.10.15	Meeting with: Mr.Minis and Mr.Sebastian
Objectives of visit	• Explore possibilities of KCT with RWTH Entrepreneurship institute • Introduce INK and explore projects
Topics Discussed	• Thailand exchange model • Existing programs offered by TIME Chair • Indian Market and its needs

Outcomes	• IGEE – Exchange program similar to their existing Thailand model • Joint events in future in India and NRW
KCT (with timeline)	Student exchange program on Entrepreneurship
University of Leeds	
4 Nov 2015	Meeting with ***Professor Peter Jimack, Dean of Faculty of Engineering, UoL***
Topics	1+1 M.Sc. Programs, 2+2 Bachelor Programs, General MoU Signing, Summer Schools

Outcomes	• **General MoU** signed between UoL (Faculty of Engineering) and KCT
	• **1+1 M.Sc.** where the student satisfies criteria for UoL M.Sc. and KCT M.Tech.
	  • Credit requirement – Full Credit (or) 1/3 of credits from KCT Modules
	  • Agreed to find mutual match for courses
	  • 2 Years M.Sc. program which includes a industrial placement in India
	  • To explore Industrially Collaborated M.Sc. Programs (Cameroon – KCT Model)
	• **2+2 Undergraduate** Levels
	  • 2+2 BEng Program (2 years in KCT + 2 Years in UoL) in EEE, Computer Science, Civil, Chemical & Process Engineering)
	• **Summer Schools**
	  • Second/Third Year students to be involved
	  • Even though it is relatively difficult for UoL, they have done Engineering + Cultural + Language skills Summer Schools in the past. (Dean to share details)
	• **Engineering + Business Modules**
	  • option can be explored around Quality, Innovation and Global

KCT (with timeline)	• KCT to find mutual match for courses for the 1+1 M.Sc. Programs • KCT to explore Industrial Collaborations. For e.g. – Ford Design Centre in Chennai



UNIVERSITY OF LEEDS





KUMARAGURU COLLEGE OF TECHNOLOGY
character is life
1984



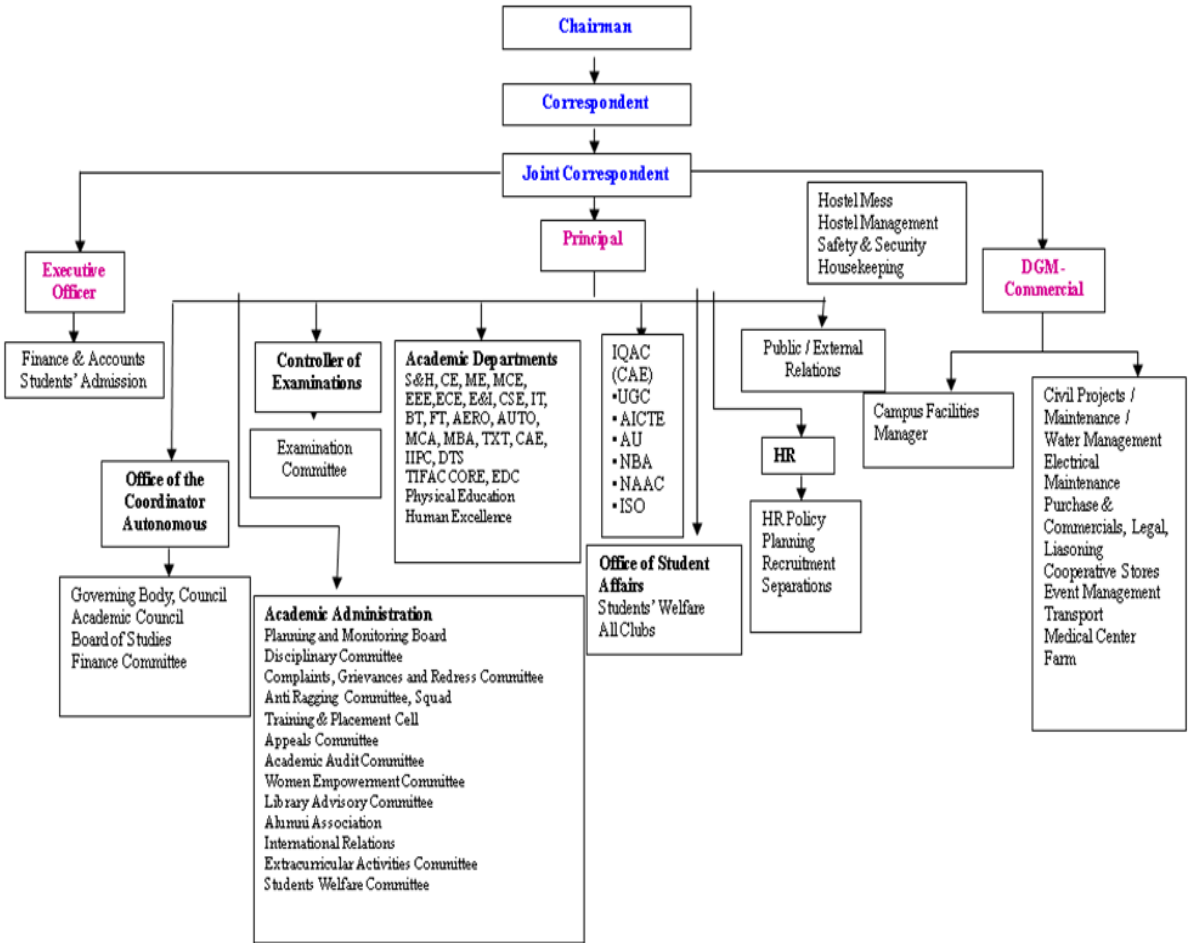
University of Leeds	
4 Nov 2015	Meeting with ***Prof Chris Carr, Chair of Textile Technology, UoL*** ***Dr Parikshit Goswami, Lecturer and Programme Director of M.Sc.***
Topics	1+1 M.Sc. Programs, 2+2 Bachelor Programs, Research Collaboration, Summer Schools
Outcomes	• **1+1 MSc** • **2+2 Undergraduate** Levels • **Summer Schools** • 10 Weeks duration. To include generic training courses and social events • UoL keen to explore industry-research partnership and collaborations (UoL-Lakshmi Model) • UoL Keen to develop research clusters for Textile Tech.
KCT (with timeline)	• KCT to set a working group to be in contact and map the options available

University of Birmingham	
4 Nov 2015	Meeting Birmingham Business School and International Relations
Topics	2+2 PhD (Civil), International Student/Staff Exchange, KCT BS – UoB BS collaborations

Outcomes	• **2+2 PhD** – Civil Engineering on Transport, Building, Water, Liveable Cities, Underground Infrastructure through one center of excellence
	• **Summer Schools – Engineering and Management**
	• **KCT BS – UoB BS**
	  • Partnering in twinning programs of MSc Level
	  • Study Abroad Programs
	  • Summer Schools
	  • Areas to be identified by KCT and UoB and share strengths and limitations
	• UoB keen to help KCT ins Up-Scaling of Staffs by sending staffs to KCT
	• UoB helps KCT to work on 'Birmingham Heroes' styled project in India

KCT (with timeline)	• KCT to set a working group to be in contact and map the options available

6.2.2- Enunciate the internal organizational structure of the College for decision making processes and their effectiveness.



6.2.3- Specify how many planned proposals were initiated/ implemented, during the last four years. Give details.

Academic year 2011 -12

Sl. No	Project Title	Sponsoring Financial Agency	Sponsor Amount (Rs in Lakh)
01	Optimization of Surface Roughness in End Milling Operation using Experimental Design	IE(I)/ R&D	0.09
02	Natural Product Research for Health and Bio Pharma Industry	ICMR/Seminar Grant	0.25
03	Natural Product Research for Health and Bio Pharma Industry	ICMR/Seminar Grant	0.15
04	Hardware Implementation of image enhancemet using wavelet / Retined algorithms	Dept. of Space/ RESPOND	4.50
05	Emerging Technologies and	DRDO/ STTP	0.35

	Applications in Wireless Sensor Networks		
06	Communication, Information and Telematics (CITEL 2011)	AICTE / Seminar Grant	1.00
07	FPGA Based Single Chip Implementation of AES (RIJEDAEL ALGORITHM) Encryption and Decryption with Error Correction	DRDO / R&D	6.60
08	Communication, Information and Telematics (CITEL 2011)	Dept. of Space/ Seminar Grant	0.30
09	Complete removal of recalcitrant synthetic dyes from textile wash liquor using organic solvents in multistage centrifugal extractors	DST/ WTI (Water Technology Initiative)	24.94
10	Probability, Random Processes and Queueing Theory	Anna University/FDP	0.75
11	Communication, Information and Telematics (CITEL 2011)	CSIR/Seminar Grant	0.30
12	National Conference on Advance sin Mechanical Sciences (AIMS 2011)	CSIR / Seminar Grant	0.50
13	Advances in Textiles, Machinery, Nonwoven and Technical Textiles - ATNT 2011	CSIR /Seminar Grant	0.50
14	National Conference on Natural Language Processing (NCNLP 2011)	CSIR / Seminar Grant	0.30
15	National Conference onService Oriented Computing (NCSOC 2011)	CSIR /Seminar Grant	0.30
16	Bioprocessing in Biotechnology	DBT /Short Term Training Course	2.46
17	Challenges in Restructuring Power System & Power Quality in Indian Scenario	AICTE /Seminar Grant	0.25
18	Financial Assistance under Network Program on Bio-Algae Carbon Sequestration - Sub Title - Carbon sequestration and cultivating algae for green bio-fuel production	DST /R&D	25.88
19	Multimodel biometric authentication system for secured access control application(using ear and palm print)	DRDO/R&D	82.00
20	Case Tools for Software Engineering	AICTE /SDP	0.50
21	Advances in CNC Programming and	AICTE /Seminar	0.75

	Operations	Grant	
22	Phytochemical Analysis and Antioxidant Screening of Therapeutically Important Medicinal Plants	ICMR /Seminar Grant	0.25
23	National Conference on Innovations in Signal Processing, Embedded Systems and Communications Technology SPECT 2012	ISRO /RESPOND	0.40
24	Modernization of the Structural Technology Centre	AICTE /MODROBS	14.40

Academic year 2012 -13

Sl. No	Project Title	Sponsoring Financial Agency	Sponsor Amount (Rs in Lakh)
01	A process development for purification of debittering enzymes based on aqueous two phase extraction	DST - FAST TRACK	6.20
02	Complete removal of recalcitrant dyes in textile effluents by organic solvents using multistage centrifugal extractor	DST	24.90
03	Microbial Production of Ethanol from Water Hyacinth using Thermophilic Organism	TNSCST	0.10
04	Design and Development of in situ forming Injectable Hydrogel for Drug Delivery	TNSCST	0.07
05	Multimodal biometric authentication system for secured access control application	DRDO	3.35
06	Design and Development of Eco toy making machine	IEEE - WIE	0.15
07	Semi Automated Dry banana fibre twister	TNAU (Eco Green)	0.10
08	Design and automation of ECO friendly product machinery	IEEE	0.15
09	Carbon sequestration and cultivating algea green biofuel production	DST	6.50
10	Development and evaluation of chitosan Nanofilm loaded with curcumin as wound dressing material	Ministry of Science and Technology, Govt. of India	11.37
11	Experimental evaluation of pair programming	AICTE	3.00

12	Development of Nonwoven Interlining from Silk Selvedge Waste	RPS, AICTE	4.15
13	Textile Crafts from Pineapple Leaf Fibres	RuTAG, Govt. of India	1.00
14	Wavelet based Image Compression/De-compression with Pipelined Architecture on FPGA	ISRO (RESPOND)	5.18
15	National Conference on Innovations in Signal Processing, Embedded Systems and Communications Technology SPECT	ISRO	0.40
16	MODROBS for Structural Technological Centre	AICTE	14.40
17	Iinternational workshop on "Women in Electro Magnetics" WiEM' on March 1st & 2nd 2013.	IEEE	0.30

Academic year 2013 -14

Sl. No	Project Title	Sponsoring Financial Agency	Sponsor Amount (Rs in Lakh)
1.	Pilot scale fermenter	AICTE	10.00
2.	Development and Evaluation of insitu forming alginate hydrogel loaded with curcumin as wound dressing material	DBT - RGYI	8.20
3.	Characterization and immobilization of banana peel protease to incorporate in wound dressing material for genital warts	DBT	32.80
4.	Multimodal biometric authentication system for secured access control application	DRDO	3.35
5.	Automatic Potter wheel	RuTAG, Govt. of India	0.12
6.	Banana fibre thread making machinery	TNAU (Eco Green)	0.10
7.	Semi Automated Cone Winder for twisted Dry banana fibre	TNAU (Eco Green)	0.15
8.	Carbon sequestration and cultivating algea green biofuel production	DST	20.61
9.	Development and evaluation of chitosan Nanofilm loaded with curcumin as would dressing material	DBT	1.98

10.	Complete Removal of Recalcitrant Synthetic Dyes from Textile Wash Liquor using Organic Solvents in Multistage Centrifugal Extractors	Water Technology Initiative (WTI), DST	24.96
11.	Development of Nonwoven Interlining from Silk Selvedge Waste	RPS, AICTE	4.00
12.	Textile Crafts from Pineapple Leaf Fibres	RuTAG, Govt. of India	0.50
13.	Intelligent Device for Ankle foot orthosis	TNSCST	0.08
14.	Effect of Aggregate replacement in Concrete	Senthil Construction Property	1.10
15.	Bio electricity production from dairy waste water through MFC technology	TNSCST	0.06
16.	Deccan Pumps - CRM	Deccan Pumps	0.60
17.	Sphata health system	Sphata system	0.80
18.	Project 49	Business School	0.03

Academic year 2014 -15

Sl. No	Project Title	Sponsoring Financial Agency	Sponsor Amount
01	Assessment of Material Properties of A5083 MMC for use in UAV's operating in Low Temperature Region	INSTITUTION OF ENGINEERS (INDIA)	0.40
02	Development and Evaluation of insitu forming alginate hydrogel loaded with curcumin as wound dressing material	DBT - RGYI	1.70
03	Microcontroller and gsm based windmill monitoring system	TWO WIN EXPORTS	0.25
04	Automatic Potter wheel	RuTAG, Govt. of India	0.06
05	Landmine detecting boots	TEXAS INSTRUMENTS	0.15
06	Enhancing the livelihood of Handloom Weavers through Technology upgradation and Training in Samathur Block, Pollachi, Tamilnadu	Science for Equity, Empowerment, and Development Division (SEED), DST, New Delhi	12.00
07	Flip Book	Business School	0.03
08	Yara the reflector	Studio - A	0.09
09	Quadcopter	iQube	0.75
10	Biped Robot	iQube	0.20

11	Humanoid	iQube	0.20
12	TrackR	iQube	0.30
13	Tennis Tutor	iQube	0.40
14	Home Automation	iQube	0.20

6.2.4 - Does the College have a formally stated quality policy? How is it designed, driven, deployed and reviewed?

Yes. The college has a formally stated quality policy as shown below.

Quality Policy: We at Kumaraguru College of Technology strive to achieve customer satisfaction by providing Quality Education and Training in Engineering and Technology, Science and Management in a congenial and disciplined environment through

- Involvement at all levels
- Up-gradation of facilities and human resources
- Commitment to continual improvement

The quality policy has been developed by the involvement of all the stake holders to reflect the vision and mission of the Institution. The deployment of the quality policy in through:

- The documents of the Institution such as calendar, note book available to students through the stores, magazines and the like.
- All meetings held for faculty and students
- Alumni meetings
- Website of the Institution

The policy is reviewed through the audits conducted by ISO and internal academic audits.

6.2.5 - How does the College ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship?

Yes, grievances are addressed under several committees.

- ❖ Anti Ragging Committee
- ❖ Discipline and welfare committee
- ❖ Complaints cum Redressal Committee

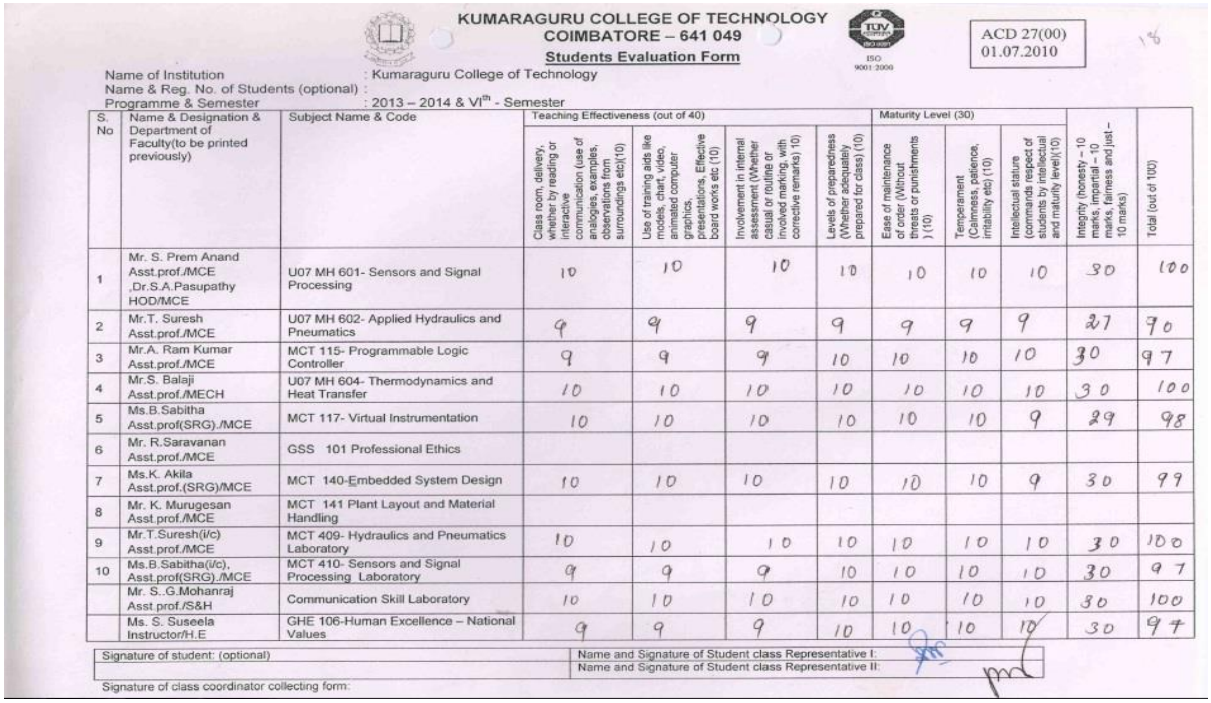
Further complaints from our students are received through various ways,

- Class Committee Meeting.
- Office of student affairs (OSA)
- Suggestion boxes.
- Personally meeting the HODs, Deans and Principal.
- Hostel Meetings

6.2.6 - Does the College have a mechanism for analyzing student feedback on Institutional performance? If yes, what was the Institutional response?

Yes

- Student feedback is received for individual courses twice in a year.
- Feedback on the performance of the department and Institution is also received in class committee meeting.
- Feedback is received whenever any value added course is conducted.
- These feedbacks are used for system improvement and also for curriculum development.
- Program exit survey from the students on the completion of the course is obtained on a regular basis.



KUMARAGURU COLLEGE OF TECHNOLOGY
COIMBATORE – 641 049
Students Evaluation Form

ACD 27(00)
01.07.2010

Name of Institution : Kumaraguru College of Technology
Name & Reg. No. of Students (optional) :
Programme & Semester : 2013 – 2014 & VIth - Semester

S. No	Name & Designation & Department of Faculty(to be printed previously)	Subject Name & Code	Teaching Effectiveness (out of 40)				Maturity Level (30)			Integrity (honesty – 10 marks, impartial – 10 marks, fairness and just – 10 marks)	Total (out of 100)
			Class room, delivery, whether by reading or interactive communication (use of analogies, examples, observations from surroundings etc)(10)	Use of training aids like models, chart, video, animated computer graphics, presentations, Effective board works etc (10)	Involvement in internal assessment (Whether casual or routine or involved marking, with corrective remarks) 10)	Levels of preparedness (Whether adequately prepared for class) (10)	Ease of maintenance of order (Without threats or punishments) (10)	Temperament (Calmness, patience, imitability etc) (10)	Intellectual stature (commands respect of students by intellectual and maturity level)(10)		
1	Mr. S. Prem Anand Asst.prof./MCE ,Dr.S.A.Pasupathy HOD/MCE	U07 MH 601- Sensors and Signal Processing	10	10	10	10	10	10	10	30	100
2	Mr.T. Suresh Asst.prof./MCE	U07 MH 602- Applied Hydraulics and Pneumatics	9	9	9	9	9	9	9	27	90
3	Mr.A. Ram Kumar Asst.prof./MCE	MCT 115- Programmable Logic Controller	9	9	9	10	10	10	10	30	97
4	Mr.S. Balaji Asst.prof./MECH	U07 MH 604- Thermodynamics and Heat Transfer	10	10	10	10	10	10	10	30	100
5	Ms.B.Sabitha Asst.prof(SRG)./MCE	MCT 117- Virtual Instrumentation	10	10	10	10	10	10	9	29	98
6	Mr. R.Saravanan Asst.prof./MCE	GSS 101 Professional Ethics									
7	Ms.K. Akila Asst.prof.(SRG)/MCE	MCT 140-Embedded System Design	10	10	10	10	10	10	9	30	99
8	Mr. K. Murugesan Asst.prof./MCE	MCT 141 Plant Layout and Material Handling									
9	Mr.T.Suresh(i/c) Asst.prof./MCE	MCT 409- Hydraulics and Pneumatics Laboratory	10	10	10	10	10	10	10	30	100
10	Ms.B.Sabitha(i/c), Asst.prof(SRG)./MCE	MCT 410- Sensors and Signal Processing Laboratory	9	9	9	10	10	10	10	30	97
	Mr. S..G.Mohanraj Asst.prof./S&H	Communication Skill Laboratory	10	10	10	10	10	10	10	30	100
	Ms. S. Suseela Instructor/H.E	GHE 106-Human Excellence – National Values	9	9	9	10	10	10	10	30	97

Signature of student: (optional)
Name and Signature of Student class Representative I:
Name and Signature of Student class Representative II:
Signature of class coordinator collecting form:

Based on student feedback, continuous improvements are made in following activities:

1. Teaching- learning:

- Practice/ project based learning has been introduced.
- Active class room teaching such as panel discussion and Jig-saw
- Regular Industrial visits
- Guest lectures at least two guest lectures per semester.
- Encouragement to enroll for MOOC courses

2. Assessment:

- Seminar has been made mandatory to improve student's communication abilities.
- Assignment with a flavor of research so as to kindle interest in research
- Online assignment
- Different types of question patterns
- MOOC courses as an indirect method of assessment.
- Industry certified one credit course as indirect method of assessment.

3. Food quality:

- Food quality and Menu has been decided by student's feedback.
- Hygienic automated systems are introduced for cooking
- Food waste management.

4. Infrastructure facilities:

- Free Wi-Fi in common places and hostels.
- Common Internet center in hostel
- Modern Gym- Kraft





- Laboratorys are open until 6.30PM.
- Projects laboratory such as Garage.
- Incubation cell – I - Qube (24 x 7)





- Separate facility for music and other clubs.
- KORE (Modern food court)



Dining area at KORE

5. Value added and placement training:

- Certification courses
- Need based workshops on new technologies
- GATE training programs at departmental level
- Centralized soft skill training program
- Alumni led mock interviews/group discussions for students to prepare for interviews.
- Fast track program for fast learners and accelerated mode for 8th semester so as to enable students to go for full time internships.

6.2.7 - In what way the affiliating University helped the College to identify the developmental needs of the College?

- University nominees are appointed in various statutory bodies to monitor the performance of management in academics. Some of the university assisted saturated bodies are;

- ✓ Governing council
- ✓ Governing body
- ✓ Academic council
- ✓ Standing Committee
- ✓ Finance committee
- ✓ Boards of studies
- ✓ Result passing board

- University representatives are appointed by the University for monitoring the effective conductance of end semester examinations.
- University ensures the adequacy of faculty, infrastructure and other facilities by sending inspection committee.

6.2.8 - Does the affiliating university have a functional College Development Council (CDC) or Board of College and University Development (BCUD)? If yes, in what way College is benefitted

Affiliating university does not have any CDC or BCUD. The Centre for Affiliation of Institutions (CAI) of Anna University facilitates granting of affiliation to the Institution. The centre helps the college to achieve academic excellence by guiding the college to equip with qualified faculty and state of the art infrastructure so as to produce competent engineers to meet the local and global requirements.

6.2.9 - How does the College get feedback from non-teaching, teaching, parents and alumni on its functioning and how it is utilized

- Feedbacks from alumni are taken for placements, curriculum (BoS) development and in program advisory board.
- Parents meeting are conducted twice in a year and during which the feedbacks are collected. CARE 360° is a journal feedback from the college sent to the parents and in return the parents fill the acknowledgement as their feedback.

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குமரகுரு தொழில்நுட்பக் கல்லூரி

KCT care 360°

COMPLETE ACADEMIC REVIEW FOR ENHANCEMENT (CARE - 360°)
(SEMESTER WISE)
மாணவ/மாணவியர் முன்னேற்றம் பற்றிய தகவல் அறிக்கை
(செமஸ்டர் வாரியாக)

Student Name மாணவர் பெயர்		Date தேதி	
Roll No./Section வருகைப் பதிவு எண் / வகுப்பு		Branch பாடப்பிரிவு	

Academic Performance (Theory & Practical Courses)
படிப்பு பற்றிய செயல்திறன் (வகுப்பறை பாடங்கள் மற்றும் செய்முறைப் பாடங்கள்)

SL. No. வ. எண்	Course Code பாடத்தின் குறியீட்டு எண்	CAM earned out of 50 CAM மதிப்பெண்கள் (50 மதிப்பெண்களுக்கு)	Test for which the student was absent மாணவர் எழுதாத தேர்வுகளின் விபரம்	End Semester Result pass/reappear/absent or not eligible இறுதித் செமஸ்டர் தேர்வு தேர்ச்சி/தேர்ச்சி பெறவில்லை தேர்வு எழுதவில்லை தேர்வு எழுத தகுதி பெறவில்லை	SGPA and Overall Attendance % ஒட்டுமொத்த வருகைப்பதிவு
					Note: 1. SGPA is computed only for the candidates who passed in all the courses in current semester. 2. Good attendance inculcates commitment and sincerity. (Overall attendance for being eligible to go to the next semester is 80%) **குறிப்பு :** 1. அனைத்து பாடங்களிலும் தேர்ச்சி பெற்ற மாணவர்க்கு மட்டும் SGPA கணக்கிடப்படுகிறது. 2. சிறந்த வருகைப்பதிவு மாணவ மாணவியரிடையே அக்கறையையும் அர்ப்பணிப்புத் தன்மையையும் வளர்க்கும் (அடுத்த செமஸ்டருக்கு செல்வதற்கான குறைந்தபட்ச ஒட்டுமொத்த வருகைப்பதிவு வரம்பு 80% ஆகும்).

Results of Before Revaluation :

No. of Arrears in current Semester :

Note: CAM (Continuous Assessment Marks) reflects the performance in internal tests and assignments. If one performs well in internal tests, it would pave the path to good performance in the end semester exams.
குறிப்பு : CAM மதிப்பெண்கள் மாதாந்திர மற்றும் மாதிரித் தேர்வுகளில் மாணவர் / மாணவி பெற்ற மதிப்பெண்கள் ஆகும். இந்தத் தேர்வுகளில் நல்ல மதிப்பெண்கள் பெறுவது செமஸ்டர்தேர்வுகளில் நல்ல மதிப்பெண்கள் பெறுவதற்கு உறுதுணையாக இருக்கும்.

Essential requirements for placement in companies:

1. No arrears at the time of appearing for placement.
2. Fundamental knowledge in the core subjects.
3. Competent communication skills
4. Completion of projects and internships in areas of interest/specialization.
5. Certification in the latest technology of the chosen field will be an added advantage.

துறைசார் நிறுவனங்களில் பணிபுரியத் தேவையான முக்கியத் தகுதிகள் :

1. Placement சமயத்தில் எல்லாப் பாடத்தேர்வுகளிலும் தேர்ச்சி பெற்றிருக்கவேண்டும்.
2. துறை சார்ந்த(CORE) பாடங்களில் அடிப்படை அறிவு மிகச் சிறப்பாக இருக்கவேண்டும்.
3. தரம்வாய்ந்த தகவல் தொடர்புத் திறன் பெற்றிருக்கவேண்டும்.
4. தனக்கு ஆர்வமுள்ள துறையில் திட்ட அறிக்கை (project) செய்திருக்கவேண்டும் அல்லது தொழிற்சாலைப் பயிற்சி (Internship) பெற்றிருக்கவேண்டும்.
5. துறை சார்ந்த நவீன தொழில்நுட்பங்களில் சான்றிதழ் பெற்றிருப்பது சிறப்புத்தகுதியாகக் கருதப்படும்.

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குமரகுரு தொழில்நுட்பக் கல்லூரி

KCT care 360°

கல்லூரியின் நிகழ்வுகள்

அன்புடையீர்,

குமரகுரு தொழில்நுட்பக் கல்லூரியின் வாழ்த்துக்கள் ! இந்த தகவலறிக்கை மூலம் மீண்டும் தங்களைத் தொடர்பு கொள்வதிலும் தங்கள் மகன் / மகளுக்கு தரமான தொழில்நுட்பக் கல்வி அளிப்பதில் எங்களுக்குள்ள அர்ப்பணிப்பை மீண்டும் உறுதி செய்வதிலும் நான் மிக்க மகிழ்ச்சி அடைகிறேன். கடந்த ஆண்டு தங்கள் மகன் / மகளின் கல்வி முன்னேற்றம் பற்றிய இந்த விரிவான தகவல் அறிக்கை அனுப்பும் திட்டத்தை அறிமுகப்படுத்தினோம். இது கல்லூரிக்கும் உங்களுக்கும் இடையே உள்ள தொடர்பை மேம்படுத்த முக்கிய பங்காற்றி உள்ளது. இந்த அறிக்கை மூலம் இந்த ஆண்டின்(2015 - 2016) முற்பகுதியில் கல்லூரியில் நடந்த முக்கிய நிகழ்வுகளை உங்களிடம் பகிர்ந்து கொள்ள விரும்புகிறேன்.

கல்விச் சார்ந்த பொது நிகழ்வுகள்:

- இந்த ஆண்டு நமது மாணவ மாணவியர் பல கருத்தரங்குகளில் பங்கு பெற்று ஆய்வறிக்கை சமர்ப்பித்து கல்லூரிக்கு பெருமை சேர்த்துள்ளனர். மேலும் அவர்கள் முக்கிய தொழில் நிறுவனங்களுக்குச் சென்று அவை செயல்படும் முறைகளைக் கண்டறிந்தும் அங்கு உள்ளுறை பயிற்சி பெற்றும் வந்துள்ளனர்.
- மாணவ மாணவியர் தங்கள் விருப்பப்படி பாடங்களை தேர்வு செய்து பயிலும் வசதி உள்ள ஒரு புதிய பாடத்திட்டம் [REGULATIONS - 2015(CHOICE BASED CREDIT SYSTEM)] இந்த ஆண்டு அறிமுகப்படுத்தப்பட்டுள்ளது.
- தேசிய திறன் அங்கீகாரக் குழுவின் வல்லுநர்குழு கல்லூரியின் ஐந்து பாடப் பிரிவுகளை(CSE,ECE,IT,EEE & CIVIL) கடந்த டிசம்பர் 11 முதல் 13 வரை திறனாய்வு செய்துள்ளது. ஆய்வின் முடிவுகள் சில மாதங்களில் தெரிய வரும்.
- நமது ஆசிரியர்கள் தேசிய மற்றும் சர்வதேச அளவில் நடைபெற்ற மாநாடுகளில் ஆய்வுக் கட்டுரைகள் சமர்ப்பிதுள்ளனர். 250 க்கும் மேற்பட்ட ஆசிரியர்கள் திறன் மேம்பாட்டுப் பயிலரங்குகளில் கலந்து கொண்டு பயிற்சி பெற்றுள்ளனர்.

துறைச் சார்ந்த நிகழ்வுகள்:

- மின்னணு மற்றும் கருவியியல்(E&IE)துறை தேசிய அளவிலான இரு நாள் மாநாட்டை வெற்றிகரமாக கடந்த அக்டோபர் மாதம் 30 மற்றும் 31 அன்று நடத்தி உள்ளது.
- அகில இந்திய தொழில்நுட்பக் கல்வி குழுமத்தின்(AICTE) உதவியோடு நமது கல்லூரியின் துகிலியல் துறை ஆசிரியர்களின் மேம்பாட்டிற்கான இரு வாரப் பயிலரங்கை கடந்த நவம்பர் 16 முதல் 28 வரை சிறப்பாக நடத்தியது.

கல்லூரிச் சார்ந்த நிகழ்வுகள்:

- நம் கல்லூரியின் நிறுவனர் அருட்செல்வர் அவர்களின் முதலாவது நினைவு தினம் நினைவுச் சொற்பொழிவு பக்தி மற்றும் சன்மார்க்கப் பாடல்கள் போன்ற நிகழ்வுகளோடு அனுஷ்டிக்கப்பட்டது.
- சர்வதேச முன்னாள் மாணவர்கள் சந்திப்பு இரண்டாம் ஆண்டாக நமது கல்லூரியில் கடந்த டிசம்பர் 20 மற்றும்21 தேதிகளில் நடைபெற்றது. உலகெங்கிலுமிருந்து 400 முன்னாள் மாணவர்கள் கலந்து கொண்டு தங்கள் கல்லூரி நாட்களை நினைவு கூர்ந்ததோடு, இன்றைய மாணவர்களின் ஆராய்ச்சி மற்றும் வேலைவாய்ப்பு மேம்பாட்டிற்கு உதவுவதாக உறுதியளித்தனர்.
- குமரகுரு தொழில்நுட்பக் கல்லூரியின் சர்வதேச தொடர்புகளை மேம்படுத்தவும் ஆராய்ச்சி விரிவாக்கம் பற்றி கலந்துரையாடவும் இஸ்ரேல் நாட்டின் டெல் அவிவ் பல்கலைக்கழகத்திற்கு கடந்த ஜூலை மாதம் சென்றிருந்தேன். நமது கல்லூரியில் முன்னாள் மாணவர்கள் அமைப்பைத் தொடங்குவதற்காக ஜெர்மனி,அமெரிக்கா மற்றும் இங்கிலாந்து நாடுகளுக்கும் கடந்த அக்டோபரில் சென்று வந்தேன். நமது மாணவர்கள் உயர் பதவிகளில் பணிபுரிவதும் நல்ல தொழில் நிறுவனங்களை நடத்தி வருவதும் கண்டு நான் அடைந்த பூரிப்பை தங்களுடன் பகிர்ந்து கொள்கிறேன்.

மாணவர் சேவை மையம் சார்ந்த நிகழ்வுகள்:

- மாணவர் சேவை மையம் நம் கல்லூரியில் கடந்த 2013 ல் தொடங்கப்பட்டு மாணவ மாணவியருக்கு பல்வேறு வகைகளில் உதவி வருகிறது. பொறியியல் கல்லூரியில் சேரும் முதலாமாண்டு மாணவ மாணவியருக்கு கல்லூரியின் சட்ட, திட்டங்கள், முறைகள் ,கல்லூரிச் சூழலைச் சிறப்பாக பயன்படுத்துதல் போன்றவற்றை கற்பிக்கும் ஒரு துவக்க முகாமை ஆண்டு தோறும் நடத்தி வருகிறது.
- மேலும் மாணவ மாணவியரின் திறன் மேம்பட ஊக்குவித்தும் உளவியல் ரீதியான ஆலோசனைகளை வழங்கியும் சேவை செய்து வருகிறது. கல்வி உதவித்தொகை, மருத்துவக் காப்பீடு, மருத்துவ உதவி போன்ற சேவைகளையும், மாணவர் சேவை மையம் வழங்கி வருகிறது.

உங்கள் மகன் / மகளும் உயர்ந்த நிலையை வாழ்க்கையில் அடைய எங்கள் பணியைத் தொடர்ந்து செய்வோம். இக்கல்வியாண்டின் அடுத்த பருவம் கல்லூரி மென்மேலும் சிறப்புறும் வகையில் அமையும் என உங்களுடன் இணைந்து நம்புகிறேன். தங்களது மேலான ஆலோசனைகளை இத்துடன் இனணக்கப்பட்டுள்ள படிவத்தின் மூலம் எங்களுக்கு அனுப்பவும்.

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KCT care 360°

From
The Desk of Principal

Dear Parent,

Greetings from KCT! I am happy to connect with you all again through this communication and reiterate our commitment to quality technical education to your ward. Last year we have introduced a 360 degree student's feedback system, as part of our efforts to improve on the Institute –Parent interaction, leading to the overall grooming of our students. Let me share some of the activities of KCT in 2015-16 (Odd Semester) to update you on the institute's progressive journey.

General Academic:

- Students presented papers in conferences held in India. Students participated in seminars and workshops, underwent in-plant training and industrial visits during summer vacation
- A new regulation, R-15 , incorporating the Choice Based Credit System (CBCS) in curriculum and syllabus as mandated by UGC, AICTE and Anna University has been introduced from this academic year 2015-16
- In its endeavor, to have all programs continuously accredited, KCT received the NBA expert team during 11, 12 and 13 Dec 2015 for Civil, EEE, ECE, CSE and IT department. The accreditation results are awaited.
- Members of faculty published more number of research papers in international and national journals. Around 250 members of faculty attended various Faculty Development Programs, workshops and Seminars from all the departments.

Department events:

- The department of EIE of KCT organized a National Symposium on "Instrumentation-NSI 40" during 30th -31st Oct 2015. Over 300 participants from all over India participated.
- The Department of Textile Technology has organized AICTE Sponsored – Faculty Development Programme on "Technical Textiles-Design analysis, Manufacturing, Testing of products and their Applications" during 16th-28th Nov 2015.

Institutional events:

- Remembrance lecture and Bajans were organized in memory of our respected founder Chairman, Arutchelvar Ayya who passed away on Oct 2nd 2014.
- The Global Alumni Meet, organized on 19th and 20th Dec 2015, was attended by more than 400 alumni. During the meet the Global Alumni Sports meet – 2015 was also organized in our Institution.
- Joint Correspondent and Principal visited Tel Aviv University, Israel to strengthen the research collaboration in Biotechnology and IT areas. He also visited Germany, UK and USA to establish International Chapters of KCT Alumni towards strengthening their continued bond with KCT.

Office of Student Affairs (OSA) events:

- The Engineering Immersion Boot Camp (EIBC) was conducted for all incoming first year students, in which the students are introduced to KCT, its systems, policies, facilities, rules and regulations.
- Student related events organized by OSA with the energetic support of the students through various Clubs and Forums were
  - Independence Day Celebration,
  - Orientation for M.E. / M. Tech. and Lateral Entry B.E. / B. Tech. students,
  - Teachers Day Celebration,
  - Hostel Admission and many other student related activities.

Though the list contains lot more, for want of space, let me stop with the above. I earnestly hope that the forthcoming academic session of 2015-16 (Even semester), will bring in more energy, more activities and more laurels to the students and staff and in turn to KCT, which would be a pride to you as a stakeholder. We request your feedback in the detachable form available in this letter.

Co curricular Activities
பாடப்பிரிவு சார்ந்த செயல்பாடுகள்

Note: Acquisition of branch related knowledge, skills and technical aptitude is possible to a great extent through optimal participation in the activities listed below
குறிப்பு : கீழ்க்கண்ட செயல்பாடுகளில் அதிக அளவில் பங்கேற்பது, பாடப்பிரிவு சம்பந்தமான தெளிந்த அறிவு, திறன் மற்றும் அணுகுமுறைகளை பெற மிகவும் ஏதுவாக இருக்கும்.

Activity செயல்பாடு	Participation Details பங்களிப்பு பற்றிய விபரம்	Overall Remarks ஒட்டுமொத்த மதிப்பீடு / குறிப்புரை
Workshop / Seminar பயிலரங்கம் / கருத்தரங்கம்		
Conferences மாநாடு		
Paper Presentation ஆய்வுக்கட்டுரை சமர்ப்பித்தல்		
Design Contest வடிவமைப்பு பற்றிய போட்டிகள்		
Any Other Related Activities மற்ற செயல்பாடுகள்		

Extracurricular Activities
பாடம் சார்ந்த கூடுதல் செயல்பாடுகள் (Sports, NCC, NSS, etc.)

Activity செயல்பாடு	Participation Details பங்களிப்பு பற்றிய விபரம்	Overall Remarks ஒட்டுமொத்த மதிப்பீடு / குறிப்புரை
Sports விளையாட்டு		
NCC தேசிய மாணவர்படை		
NSS நாட்டு நலப்பணித்திட்டம்		
Club Activities மன்ற செயல்பாடுகள்		
Cultural Activites கலாச்சார நிகழ்வுகள்		
Any Other Related Activities மற்ற செயல்பாடுகள்		

Library Usage
நூலகப் பயன்பாடு

Note: It is important to remember that what is covered in the syllabus of a course is not the end of the road. Self study habits are essential for one's intellectual growth. Frequent visits to the library is essential for continous updation of knowledge.
குறிப்பு : பாடத்திட்டத்தில் உள்ள விஷயங்களே போதுமானதல்ல. சுயமுயற்சியுடன் படிப்பதே ஒருவரது அறிவுத்திறன் வளர அடிப்படை. மாணவ / மாணவியர் அடிக்கடி நூலகம் சென்று படிப்பது அவர்களது அறிவை மேம்படுத்தவும், புதுப்பித்துக் கொள்ளவும் உதவும்.

Time spent in the library this semester in hours இந்த பருவத்தில் நூலகத்தில் செலவிட்ட நேரம்	Hours நேரம்	Remarks குறிப்புகள்

MOTO of KCT: Character is Life
மனித மாண்பே வாழ்க்கை என்பது குமரகுரு தொழில்நுட்பக் கல்லூரியின் தாரக மந்திரம் ஆகும்

Discipline Related ஒழுக்கம் சம்பந்தமான குறிப்பு	

Request to Parents
பெற்றோருக்கு அன்பான வேண்டுகோள்

Let us work together toward the success of your ward.
We request you to kindly
- Call on the Class Advisor / HoD / Course Teachers periodically
- Follow up on the progress of your ward.

உங்கள் பிள்ளையின் வளர்ச்சிக்கு நாம் ஒன்றாகச் சேர்ந்து செயல்படுவோம்.
உங்கள் பிள்ளை நல்லியல்புகளை காலத்தே வளர்த்து, முன்னேற வகுப்பு ஆலோசகர் / துறைத்தலைவர் / கற்பிக்கும் ஆசிரியர்கள் இவர்களைத் தொடர்புகொண்டு அவரைப் பற்றிய தகவல்களைப் பெற்று அதற்கேற்ப செயல்படவும்.

A Special Note:
முக்கியக் குறிப்பு :

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OUTCOME BASED EDUCATION (OBE)

Kumaraguru College of Technology has started implementing outcome based education through its regulations, curriculum, syllabi and academic processes from the academic year 2014. I'd like to highlight why KCT has adopted such a system.

Traditionally in an educational system performance of a student is measured only based on the marks/grades obtained in the end semester examinations. The extent to which a student has acquired the needful knowledge, skills and attitude through learning of a course (subject) and program (degree) is not addressed in traditional educational systems. This gap is addressed and filled through the implementation of outcome based education.

In the system of outcome based education, the entire academic processes, examinations, co-curricular and extracurricular activities are conducted with a clear focus on attaining the required knowledge, required skills and attitude that are to be present in a student undergoing a particular degree/program. The foundation of outcome based education is "Assessment Leads to Learning" which in simpler language means "a challenging assessment/examination/testing system will make a student to learn".

Indian higher education policies today demands educational institutions to follow outcome based education by the way of India becoming a permanent member of Washington Accord. With this paradigm shift in the approach of education, KCT has developed very vibrant systems and has been using it from the academic year 2014 till date. Our students are getting fine tuned to this particular system of education and KCT has a whole is on the path towards making students achieve the required knowledge, skill and attitude in its students by the time they graduate from KCT. Through outcome based education our graduates will be considered as world class in and out of India.

பலன் சார் கல்வி (OBE)

குமரகுரு தொழில்நுட்பக் கல்லூரி பலன் சார் கல்வியை (OBE) தனது பாடத்திட்டங்கள் மற்றும் கல்விச் செயல் முறைகள் வாயிலாகக் கடந்த 2014 ம் ஆண்டு முதல் நடைமுறைப் படுத்தி வருகிறது.

பாரம்பரியக் கல்வி அமைப்பில், மாணவ மாணவியரின் செயல்திறன் அவர்கள் பெறும் மதிப்பெண்களைக் கொண்டே தீர்மானிக்கப்படுகிறது. மாணவர்கள் கற்றுத் தெளியும் அறிவு , திறன், அணுகுமுறை இவற்றைக் கணக்கிடும் முறையும் பாரம்பரியக் கல்வி அமைப்பில் இல்லை. இதைச் செய்யும் நோக்கிலேயே பலன் சார் கல்வி முறை அமைந்துள்ளது.

இந்தப் புதிய முறையில் மாணவர்கள் பயிலும் கல்வி சார்ந்த பாடத்திட்டம் , மதிப்பீடுகள், தேர்வு முறை , இணை மற்றும் கூடுதல் கல்வி சார் பயிற்சிகள் அனைத்தும் மாணவர்கள் பெற வேண்டிய அறிவு , திறன் , அணுகுமுறை இவைகளை முன்னிலைப் படுத்தியே அமைந்துள்ளன. மதிப்பீடு கற்றலுக்கு இட்டுச் செல்லும் ' என்பதே பலன் சார் கல்வியின் அடிப்படைக் கோட்பாடு ஆகும்.

மத்திய மாநில அரசுகள் பலன் சார் கல்வியை நடைமுறைப்படுத்த அறிவுறுத்தி வருகின்றன. குமரகுரு தொழில்நுட்பக் கல்லூரி இந்த மாற்றத்தை தனது சிறப்பான கல்விச் செயலாக்க நடைமுறைகள் வாயிலாகக் கடந்த 2014 ம் ஆண்டு முதல் செம்மையாகச் செயல்படுத்தி வருகிறது. இந்தப் புதிய முறையில் பயின்று பட்டம் பெறும் மாணவர்கள் அறிவு , திறன் மற்றும் அணுகுமுறை பெற்று சர்வதேச தரத்திற்கு இணையான இந்திய மாணவனாக திகழ்வது நிச்சயம்.

Acknowledgement
ஒப்புகைப் படிவம்

Name/Roll No.: பெயர் மற்றும் வருகைப் பதிவு எண் :	Semester செமஸ்டர்	Branch பாடப்பிரிவு

I have received the "information reflecting overall grooming / progress" of my ward during the semester mentioned above.
My feedback is as follows (Circle apropriately)
எனது மகன் / மகளின் இந்த பருவத்திற்கான படிப்பு சம்பந்தப் பட்ட தகவல் குறிப்பு கிடைக்கப் பெற்றேன்.
எனது கருத்து : (பொருத்தமான பதிலை வட்டமிடவும்)

I understand the importance of the overall progress of my ward (please tick in appropriate box)
எனது பிள்ளையின் ஒட்டு மொத்த வளர்ச்சியின் முக்கியத்துவத்தைப் புரிந்து கொண்டேன் (சரியான பெட்டியில் டிக் செய்க)

☐ I understand fully
நான் முழுமையாக புரிந்துகொண்டேன்

☐ I understand to some extent
நான் ஓரளவிற்கு புரிந்துகொண்டேன்

☐ Need Assistance to understand
புரிந்துகொள்ள உதவி தேவை

Any other suggesstions ஏன் புரியவில்லை மற்றும் வேறு ஏதாவது கருத்து இருப்பின், இங்கு பதிவு செய்யவும்	

I will keep in touch with the institution and follow up on the progress of my ward எனது மகன் / மகளின் படிப்பு மற்றும் முன்னேற்றம் தொடர்பாக கல்லூரியுடன் தொடர்பு கொண்டு செயல்படுவேன்	Yes / No ஆம் / இல்லை

Please send this acknowledgement to the HoD / _____
இந்த ஒப்புகையை சம்பந்தப்பட்ட துறைத்தலைவருக்கு அனுப்புமாறு கேட்டுக்கொள்கிறேன்.

Parent Signature / Name / Date
பெற்றோர் கையொப்பம் / பெயர் / நாள்

From,

Parent's Name:
பெற்றோர் பெயர்:
Student's Name:
மாணவர் பெயர்:
Address
முகவரி:

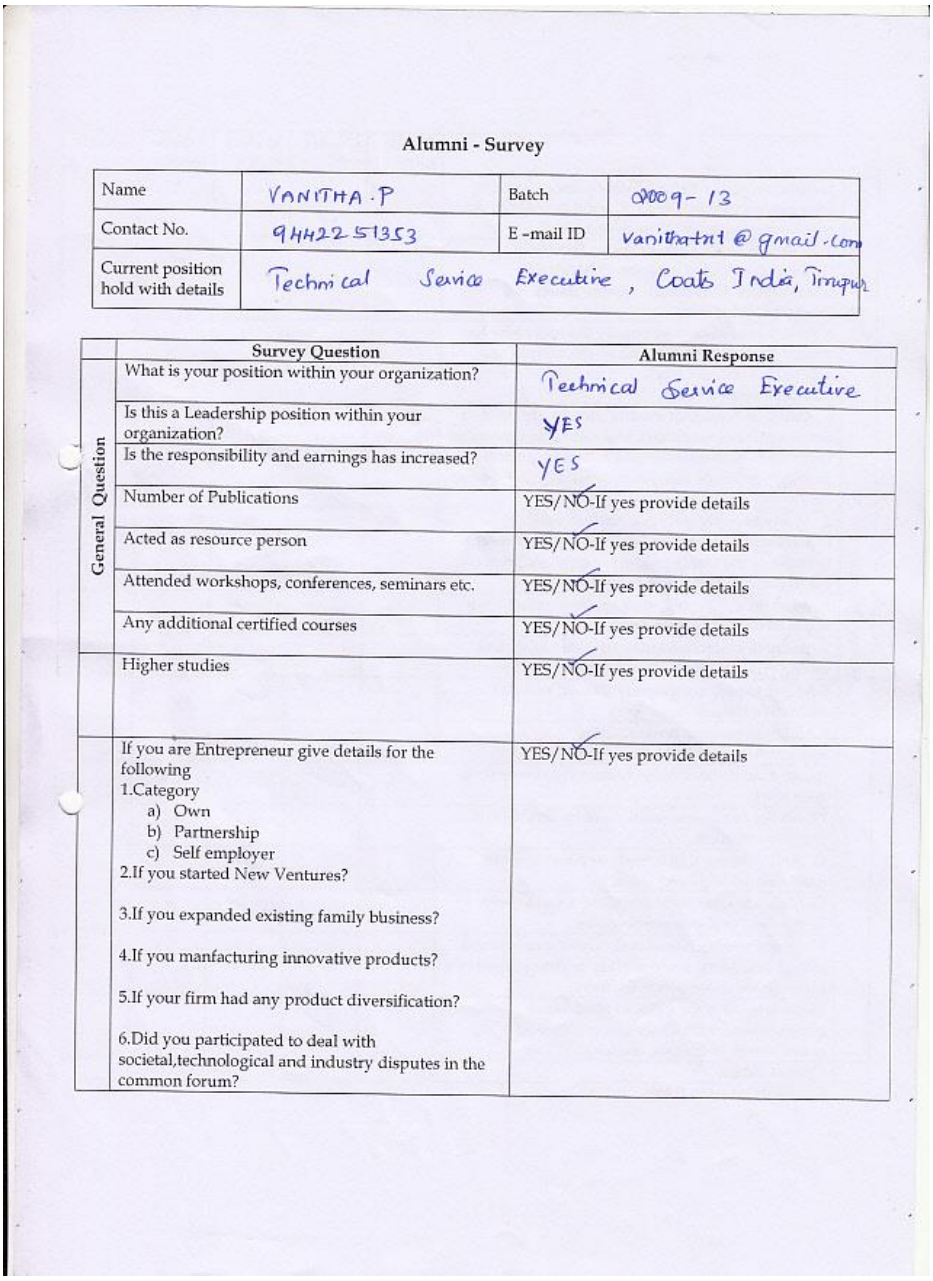
Parent's Phone Number:
பெற்றோர் தொலைபேசி எண்:

To,

The HoD
Dept. of _____
Kumaraguru College of Technology
Coimbatore - 641 049
Department Phone No. _____

BLANK SPACE

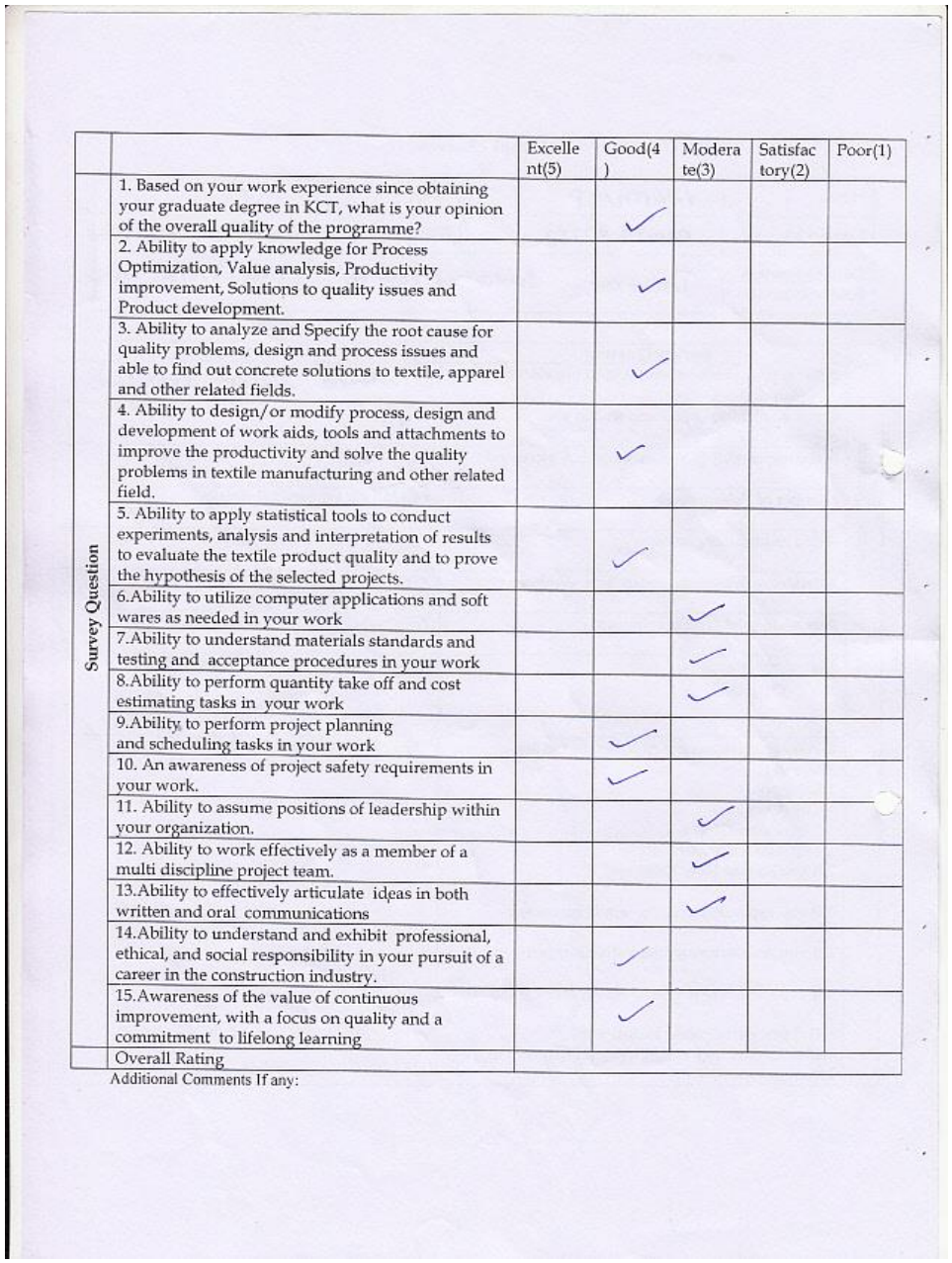
- Weekly departmental meeting are conducted by the Heads of the department, to discuss on the effective functioning of the department.
- Feed from our alumni are collected on their visits to the Institutions and also during the gathering for "Global Alumni Meet" conducted every year.



Alumni - Survey

Name	VANITHA.P	Batch	2009-13
Contact No.	9442251353	E-mail ID	vanithatnt@gmail.com
Current position hold with details	Technical Service Executive, Coats India, Tirupur		

	Survey Question	Alumni Response
General Question	What is your position within your organization?	Technical Service Executive
	Is this a Leadership position within your organization?	YES
	Is the responsibility and earnings has increased?	YES
	Number of Publications	YES/NO-If yes provide details
	Acted as resource person	YES/NO-If yes provide details
	Attended workshops, conferences, seminars etc.	YES/NO-If yes provide details
	Any additional certified courses	YES/NO-If yes provide details
	Higher studies	YES/NO-If yes provide details
	If you are Entrepreneur give details for the following 1.Category a) Own b) Partnership c) Self employer 2.If you started New Ventures? 3.If you expanded existing family business? 4.If you manfacturing innovative products? 5.If your firm had any product diversification? 6.Did you participated to deal with societal,technological and industry disputes in the common forum?	YES/NO-If yes provide details



		Excellent(5)	Good(4)	Moderate(3)	Satisfactory(2)	Poor(1)
Survey Question	1. Based on your work experience since obtaining your graduate degree in KCT, what is your opinion of the overall quality of the programme?		✓			
	2. Ability to apply knowledge for Process Optimization, Value analysis, Productivity improvement, Solutions to quality issues and Product development.		✓			
	3. Ability to analyze and Specify the root cause for quality problems, design and process issues and able to find out concrete solutions to textile, apparel and other related fields.		✓			
	4. Ability to design/or modify process, design and development of work aids, tools and attachments to improve the productivity and solve the quality problems in textile manufacturing and other related field.		✓			
	5. Ability to apply statistical tools to conduct experiments, analysis and interpretation of results to evaluate the textile product quality and to prove the hypothesis of the selected projects.		✓			
	6.Ability to utilize computer applications and soft wares as needed in your work			✓		
	7.Ability to understand materials standards and testing and acceptance procedures in your work			✓		
	8.Ability to perform quantity take off and cost estimating tasks in your work			✓		
	9.Ability to perform project planning and scheduling tasks in your work		✓			
	10. An awareness of project safety requirements in your work.		✓			
	11. Ability to assume positions of leadership within your organization.			✓		
	12. Ability to work effectively as a member of a multi discipline project team.			✓		
	13.Ability to effectively articulate ideas in both written and oral communications			✓		
	14.Ability to understand and exhibit professional, ethical, and social responsibility in your pursuit of a career in the construction industry.		✓			
	15.Awareness of the value of continuous improvement, with a focus on quality and a commitment to lifelong learning		✓			
	Overall Rating					

Additional Comments If any:

6.2.10 - Does the College encourage autonomy to its academic departments and how does it ensure accountability?

Yes

- Autonomy is given to departments in the design of curriculum and syllabi, conductance of classes, continuous assessment, faculty development, research and consultancy activities. Faculty members can also design and offer value added courses which are not covered in the curriculum.

- Advanced topics and emerging fields have been incorporated into the curriculum, which enables the students to acquire competency to meet the challenges at the national and international levels.
- Accountability is ensured through regular monitoring and review process at departmental level by HOD on weekly basis and College level by the Principal on monthly basis. Faculty performances are accountable through Performance Appraisal System.

KUMARAGURU COLLEGE OF TECHNOLOGY	Annexure -1
CLASS ROOM DELIVERY OF INDIVIDUAL FACULTY	
Dept. name :	Evaluator sign
Evaluator name :	
Faculty name :	
Class :	HOD sign
branch :	
period :	
Subject - name:	
Date of evaluation :	Principal sign
INDIVIDUAL FACULTY REPORT (Theory)	
1. Are the class notes avilable for the complete syllabus	yes / no
2. Class notes - quality	excellent(4) / v.good (3)/ good(2) / fair(1)
3. Teaching aid - type available	
4. Is the faculty coming to class in time?	yes / no
5. Is the faculty utilising the period completely for teaching?	yes / no
6. Is the faculty teaching as per CO's?	yes / no
7. Is the faculty knowledgeable in the subject?	yes / no
8. What is the quality of teaching in the class?	excellent(4) / v.good (3)/ good(2) / fair(1)
9. Is the faculty teaching in the class with applications ?	yes / no
10. Is the class interactive?	yes / no
11. Is the faculty clearing doubts in the class?	yes / no
12. Is it possible for the faculty to complete the syllabus in time?	yes / no
13. Is the faculty voice audiable to the entire class	yes / no
14. Is the faculty teaching other than syllabus also	yes / no
15. Verifying 2 students class notes for the content of teaching (sign in the class notes)	Roll No. of the student
16. Is the faculty member handling the subject for the 1st time?	yes / no

Format for Review on Faculty

6.2.11 - Does the College conduct performance auditing of its various departments?

Yes

The college conducts the following audits.

- Annual surveillance audit for ISO.
- Internal ISO audits.
- Exam process audit.
- Audit for achievement of targets (strategic plan) stated under topic 6.2.1
- Performance Appraisal and Development System (PADS)

6.3 Faculty Empowerment Strategies

6.3.1. What efforts are made by the College to enhance the professional development of teaching and non teaching staff?

- Centre for Academic excellence:

  The Centre for Academic Excellence (CAE) was established at Kumaraguru College of Technology in September 2009. The activities of the centre can be broadly classified as follows:

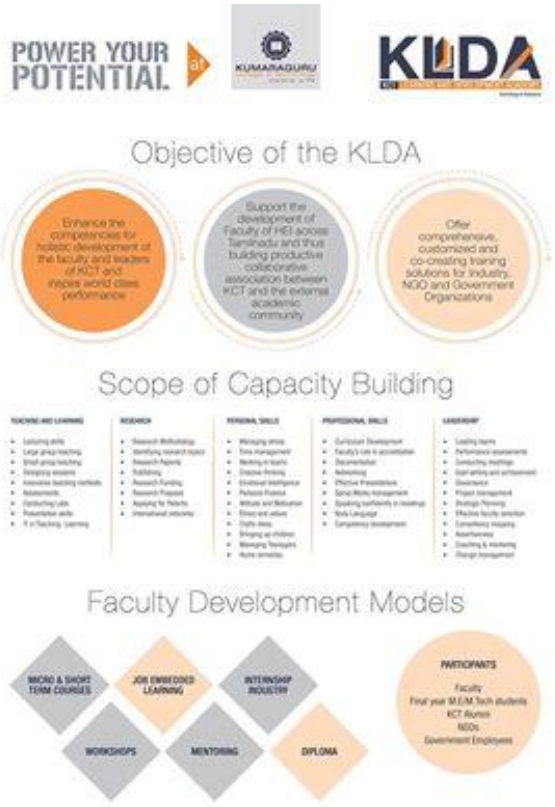
➢ To organize and impart training to the faculty members to develop their capabilities for quality academic delivery.

➢ To standardize academic activity by developing systems and monitoring the working of implemented systems with the objective of assuring sustained academic growth.

➢ To provide academic orientation, soft skills and placement training to students for enhancing their employability.

- KLDA-Learning and Development academy-For Training purpose

  KLDA is committed to enriching the faculty in the HEI through training, mentoring and skill development.





KLDA Workshop

- Value added courses are attended by faculty and Non Teaching Staff like online courses, BEC.
- Faculty attends various FDP's, Workshop, Conference and other internal & external programs Induction Programs are conducted for new joiners.
- Induction Programs are conducted for new joiners.

6.3.2 What is the outcome of the review of the Performance Appraisal Reports? List the major decisions.

Outcomes of the review process

- Maximize the effectiveness of the Teaching faculty, Technical supporting staff and administrative staff who work at the college.
- Align the effectiveness of the members with the Vision and the Goals of the Institution.
- Assist in creating a workplace environment that promotes the dignity and job satisfaction of the individual.
- To indentify the SWOC of individual faculty member.
- PADS seek to accomplish the above Purposes by providing individuals with periodic, standardized and objective evaluation of job performance.

Major Decisions

- Transparency in assessments.
- Based on SWOC, development assistance in the form of training will be provided to the faculty members.
- Acknowledging positive performance in the form of incentives
- Reviewing/updating expectations of the position for current applicability.
- Identifying training needs and opportunities for personal and professional development.
- Developing information about individual performance that is pertinent to decisions regarding salary, promotion, and termination.
- Identifying issues that can be mutually addressed by employees and evaluators, providing positive solutions, and monitoring the results.
- Establishing goals and objectives to be attained before the next review period.
- Department achievements and Shortfalls are identified

6.3.3 What are the welfare schemes available for teaching and non teaching staff? What Percentage of staff have availed the benefit of such schemes in the last four years?

S. No.	Welfare Scheme	Beneficiary			
		2011 to 2012	2012 to 2013	2013 to 2014	2014 to 2015
01	Mediclaim policy	100 %			
02	Accident policy	100%			
03	Maternity leave for lady staff member (both teaching and non-teaching)	05 no's	06 no's	05 no's	12 no's
04	EPF	100 %			
05	ESI	100 %			
06	Gratuity	100 % (People who have served above 5 years are eligible once they are relieved after 5 years of service will be eligible)			
07	Gift voucher for Marriage purpose	28 of our staffs have been benefited in this scheme			
08	PhD Allowances	Allowance of 10,000/- INR will be paid for three years for teaching faculty registered for PhD.			
09	On Duty for PhD Doers	06 days per semester			

10	Monetary support for attending FDP, Conference and workshops	Management supports all the faculty members by providing financial assistance for undergoing FDP, Conference and workshops.			
11	Concession on Bus fare (% of faculty utilized)	25%	25%	29%	24%

6.3.4 What are the measures taken by the College for attracting and retaining eminent faculty?

- Research Centers
- Seed funding from the management for R&D.
- Best Infrastructure facilities.
- Good Monetary benefits.
- Incentives are provided to the faculty members. Based on the performance, incentives are categorized as outstanding, highly competent and competent.

Year	Category	Incentive in INR
2012 – 2013	Outstanding	40,000/-
	Highly Competent	20,000/-
	Competent	10,000/-
2013 – 2014	Outstanding	40,000/-
	Highly Competent	20,000/-
	Competent	10,000/-

Incentives on Performance for the last two years

- Incentives for Journal publications, Book publications, for carrying out consultancy and for organizing workshops, seminars and conferences.
- Limited Accommodation facilities available for Staff.
- Good Working environment – Providing conducive environment for academic ambience.
- Promotions and support towards their career growth.
- Institution provides financial support for the faculty members for attending conferences and workshops held at inside and outside the country.
- PhD allowance

6.3.5 Has the College conducted a gender audit during the last four years? If yes, mention a few salient findings.

Yes

The college conducts gender audit every year and provides equal opportunities for both genders. More over most of the departments are headed by women faculty.

Based on the audit Conducted in the academic year 2015 – 16 the following are the salient findings observed:

- Out of 6158 students enrolled in the college 4002 are boys and the rest of 2156 are girls.
- Among the 753 overall employees of the Institution, of which 267 are female employees which include teaching, non teaching and administration.
- Among the 16 Heads of departments, 10 are Women Professors.

6.3.6 Does the College conduct any gender sensitization programs for its staff?

Yes, the Institution conducts gender sensitization program regularly through Women's empowerment cell and Human excellence department. The list of programs is provided given below.

Through Women Empowerment Cell:

1) Health for modern youth



Inauguration of Health for Modern Youth

2) Yoga Sangamam – Healthy Living



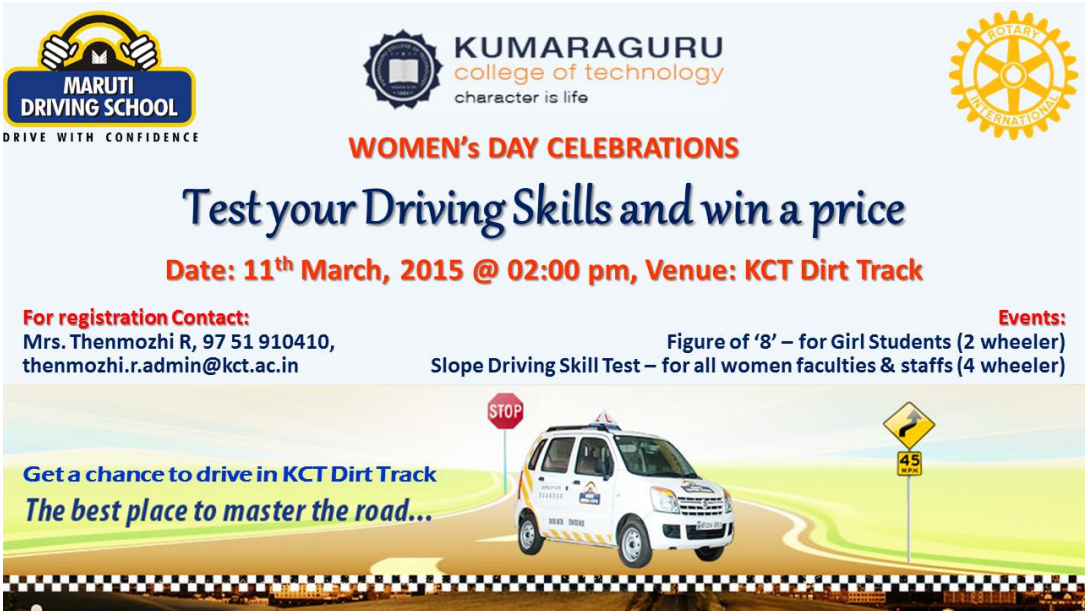
Faculty Development Program - Yoga Sangamam

3) Women's day Celebration



Invitation for Women's Day Celebration

4) Test your driving Skills

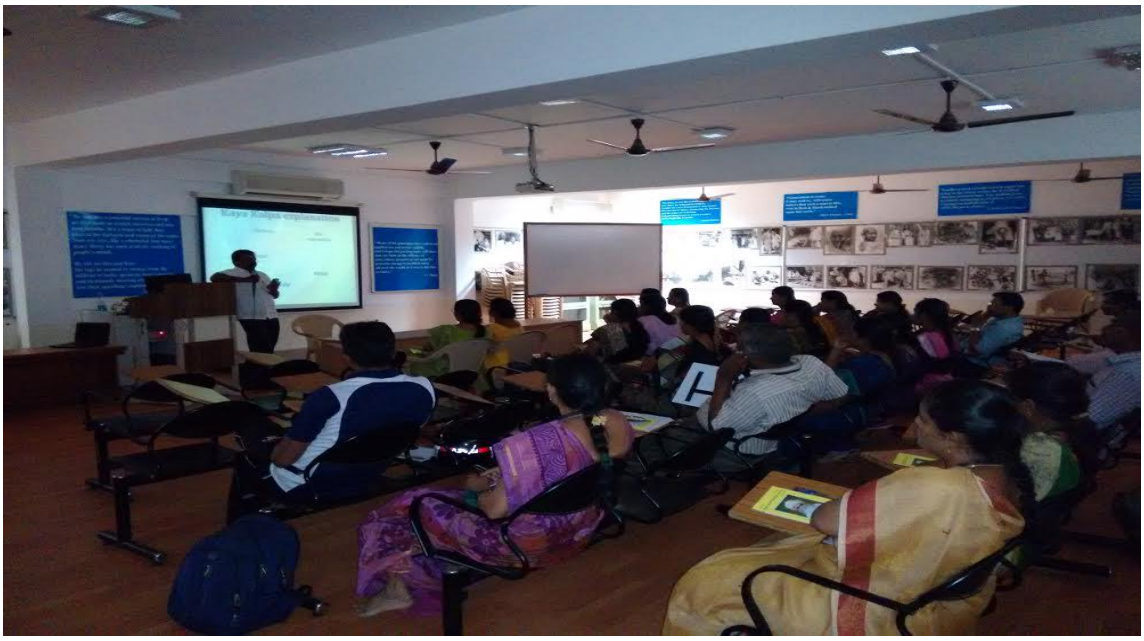


Poster on Test your driving skills

Through Human Excellence:

List of programs organized - Human Excellence Department

Sl. No	Date	Name of the FDP	Purpose
1	18.05.2012	Physical well being	Healthy Living
2	05 .06.2013	Rejuvenation of Life Force	Enhancing Life energy
3	16/12/2014 to 17/12/2014	Treatment without Medicine	This program is specially designed to bring awareness for the faculty for healthy living..
4	16, 17,18 & 19th June, 2015	Wellness of Body, Mind and Soul	Create an Awareness on Yogic Life
5	21.06.2015	International Yoga Day celebration – Yoga Sangamam	Healthy Living
6	16&17th Nov, 2015	Yogasana for well being	Physical well being
7	18.11.2015	Health for Modern Youth	To awareness on women Happy living
8	09.01.2016	Intensive workshop on Holistic Health	To create awareness on healthy living and offer acupuncture rejuvenation drive for the faculties.



Healthy Living workshop



Practical Session - Healthy Living

6.3.7 What is the impact of the university's UGC – Academic staff college programmes in enhancing competencies of the college faculty?

- Kumaraguru College of technology is affiliated to Anna University Chennai and the University does not have UGC – Academic Staff College. Yet our faculty members are actively taking part on various programs organized by other universities

- Anna University does not have UGC-Academic Staff College, faculty members are actively taking part in programmes organized by Anna University, IITs and other premier Institutions for enhancing their competencies.
- The Anna University encourages all the affiliated Colleges including Autonomous Colleges to conduct FDP through their Centre for Academic Excellence (CAE), Kumaraguru Learning and Development Academy (KLDA).
- College regularly conducts externally funded and Anna University approved Faculty Development Programmes.

6.4. Financial Management and Resource Mobilization

6.4.1. What is the Institutional mechanism to monitor effective and efficient use of financial resources?

1. **Budget approvals for expenses**

   The Institute has a budget approval process. At the beginning of the financial year, the requirement from various cost centers is received and discussed

2. **Income & Expenditure**

   The expenditure is monitored and analyzed on a monthly basis. Continuous efforts are on to ensure that the expenses under various heads are within the budget allocation.

3. **<u>Revenue Nature</u>**
   a. Staff related expenses
      i. Academic Staff (Teaching & Non-Teaching)
      ii. Admin staff
   b. Academic related Revenue Expenditure
   c. Repair & Maintenance of Infrastructure

4. **<u>Capital Expenditure</u>**
   d. Academic – Laboratory up-gradation
   e. Infrastructure – Academic, Hostels, others

6.4.2. Does the College have a mechanism for internal and external audit? Give details

Yes, the college has both Internal & External Audit mechanism.

Internal Audit is done by M/s K.S. Aiyar & Co and the scope are

- Verification of all bills and vouchers
- Annual audit of the College accounts

External & Statutory Audit is done by P.N.R. & Co.

- PNR & Co audit the trust accounts and are responsible for filing of returns with IT dept and others.

6.4.3. Provide audited Income and Expenditure statement of academic and administrative activities of the previous four years

Enclosed

6.4.4. Have the accounts been audited regularly? What are the major audit objections and how are they compiled with?

Accounts are audited annually. Audit for March 2015 has been completed and filed. No audit objections

6.4.5. Narrate the efforts taken by the College for resource mobilization

The major source of revenue for the college is the fee collected from the students.

Various fees collected are

- Tuition Fee
- Exam Fee
- Hostel Accommodation Fee etc.
- In addition to the above, in order to generate long term revenue, the parent trust (Ramanandha Adigalar Foundation) has established a Tech Park of about 2 lakh sq. ft area. The Tech Park is rented to various IT majors and generates rental income regularly.

- Further, RAF being a charitable trust receives donations.
- Surplus funds are invested in Bank deposits and generate interest income.
- Sources of funds and grants received from several funding agencies such as DST, AICTE, BRNS, ICMR, DRDO, etc for carrying out various projects are

accounted by the college office and sanctioned by the same as and when required by the Principal Investigator. The funds are utilized for research projects, training, testing and related activities. At the end of or at frequent intervals of project duration as demanded by the funding agencies the expenditure report is sent for reference.

All the sources are used for the development of the Institution (KCT)

6.4.6. Is there any provision for the College to maintain the "Corpus Fund"? If yes, give details

- The Trust (Ramanandha Adigalar Foundation) builds corpus voluntarily. As on 31.03.2015, RAF has a corpus of Rs. 18,32,70,000/-.
- In addition, caution deposits collected from students is invested in bank deposits. As on 31.03.2015, an amount of Rs 5,60,03,924/- is held under the head caution deposits. Though, this is refundable at the time of students leaving the college, the same is replenished by way of similar deposits collected form fresh students. As such, this is a long term source for the Institution.

6.5 Internal Quality Assurance System

6.5.1 Does the College conduct an academic audit of its departments? If yes, give details.

- Yes. The college conducts academic audits of all its departments under ISO 9001:2008 (internally twice a year and externally once a year)
- Teams of faculty have been trained in the ISO audit procedures.
- The Centre for Academic Excellence (CAE) also conducts academic audits for which details are given.

KUMARAGURU COLLEGE OF TECHNOLOGY

Coimbatore – 641 049

Center for Academic Excellence

Record of Academic Audits

(Academic Year 2010-2011)			
Sl.No.	**Date**	**Details**	**Participants**
1.	16th to 20th August 2010	Academic Audit – I	All departments of KCT
2.	4th to 8th October 2010	Academic Audit – II	All departments of KCT
3.	03.02.2011 to 15.02.2011	Academic Audit – I	All departments of KCT
4.	22.03.2011 to 09.04.2011	Academic Audit – II	All departments of KCT
(Academic Year 2011-2012)			
5.	23.06.2011 to 02.07.2011	Academic Audit – 1	All departments of KCT
6.	10.10.2011 to 28.10.2011	Academic Audit – 2	All departments of KCT
7.	13.02.2012 to 05.03.2012	Academic Audit	All departments of KCT
(Academic Year 2012-2013)			
8.	03.10.2012 to 19.10.2012	Academic Audit - I (Odd semester 2012-13)	All departments of KCT
(Academic Year 2013-2014)			
9.	19.08.2013 onwards	Academic Audit	All departments of KCT
(Academic Year 2014-2015)			
10.	25.08.2014 onwards	Academic Audit	All departments of KCT

6.5.2 Based on the recommendations of academic audit what specific measures have been taken by the College to improve teaching, learning and evaluation?

Based on the audit findings, the departments are directed to take corrective measure in areas related to:

- Teaching, learning and evaluation.
- Interaction and documentation with students / parents on issues of concern.
- Compliance to outcome based education (OBE) and it's implemented.
- Up-gradation of curriculum, syllabus and academic processes for the betterment of the Institution.

6.5.3 Is there a central body within the College to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

Yes. The CAE (that is, the Center for Academic Excellence) – (IQAC) of the Institution takes care of this activity.

- The structure of CAE (that is, the Center for Academic Excellence) – (IQAC) is as follows.
    - The Principal
    - Head – Centre for Academic Excellence
    - Heads of the Department
    - Faculty coordinators from various departments

To bring in a culture of excellence in academic activities, a central body in the name of "**Center for Academic Excellence"** was brought into existence during September 2009. The activities of the center can broadly be put as follows.

- To develop systems that will enable standardization of academic activity that is essential for sustained academic growth
- To conduct academic audits to ensure that the departments comply with the established academic standards
- Organize and impart training to the faculty to develop their capabilities for quality academic delivery in line with NBA requirements

(a) Standardization Activities

Following are the standardization activities that have been Institutionalized.

- Preparation of material for handling theory classes by way of a format

Common Course plan preparation format which is also a part of ISO

Inclusion of beyond the syllabus teaching content need to be mentioned in course plan

Common Course file preparation format

To make the content delivery uniform, common course meetings conducted thrice in a semester, if a particular course is offered more than one section in a semester.

Conduction of remedial classes for slow learners

- Preparation of laboratory manuals and work books by way of formats

Common Laboratory course plan (with and without cycle)

Inclusion of beyond the syllabus teaching content need to be mentioned in course plan

- The work of class advisors and ward counselors

In a semester class committee meeting is conducted thrice to discuss the issues of students inclusive of learning.

Conducting parent's teachers meeting twice in a year

- All academic systems/processes to achieve excellence

Conduction of BoS meeting, once in a year by inviting all stake holders inclusive of parents, industry experts, alumni and academic experts from other Institutions and University nominee

(b) Academic Audits

In order to ensure that the academic standards are followed by all departments, academic audits are conducted periodically. The audits are being conducted by the Principal, HoD of the concerned department and the Center for Academic Excellence.

In addition to the periodic audits, an internal central academic audit team is being formed to monitor the performance on class room delivery, laboratory process etc.

Central Internal Academic Audit

AIM:

To do audit on

1. Class room delivery of individual teachers – content and delivery
2. Laboratory process and quality
3. Check on adherence to process on a daily level – ward counsellor, attendance
4. Quality of assignments and projects

Audit Method:

1. Class room delivery of individual teachers – content and delivery

The quality of class room delivery of individual teacher needs to be observed by domain experts

This can be done by selecting domain experts from the departments. The domain experts will audit the faculty.

The pen picture about the faculty needs to be given by the domain experts for all the subjects handled by the faculty.

AS per the pen picture, if required, the faculty needs to be counselled and given time to improve the performance. After 2 months, re-auditing need to be conducted to confirm the performance by the same domain experts.

Once the performance is found to be good, then on regular basis, say once in 15 days, feedback from the students need to be taken about the entire faculty and confirm the repeated performance of the faculty. The feedback need to be taken by the ward counsellor once in 15 days and a reports as per the format need to be submitted by the ward counsellor about all subjects.

2. Laboratory process and quality

The quality of laboratory process needs to be audited by domain experts and the repeatability needs to be confirmed by the method mentioned above.

3. Auditing outside the class room:

The regular internal auditing of faculty outside the class room need to be audited for the theory and for the laboratory

4. The quality of assignments and project

The quality of assignments and project needs to be audited by domain experts and the repeatability need to be confirmed by the method mentioned above.

The projects can be evaluated by the central project committee and the same can be monitored on regular basis and the report to that effect can be stored on regular basis

5. Suggestions:

It is recommended that the domain experts may be taken from the departments to start with and auditing can be finished. Based on the recommendations from the experts, the method of auditing need to be modified for betterment in the future

6. Requirement:

In addition to carry out the auditing of faculty outside the class room, it is required to carry out the follow up personally with the faculty for the individual target (operation plan), a minimum of 3 personal needs to be given for effective working in a systematic manner.

(c)Training

- Organize and impart training to the faculty to develop their capabilities for quality academic delivery.
- Provide academic orientation, soft skills and placement training to students for enhancing their employability.

(d) Standardization for OBE Process

For adhering to the OBE process, the program specific documents have been standardized and the scrutiny of documents are been conducted through the Center for Academic Excellence.

6.5.4 How has IQAC contributed to Institutionalizing quality assurance strategies and processes?

(a) Standards developed to Institutionalizing quality assurance strategies and processes:

IQAC - (CAE) has developed and put in place a number of academic systems / processes and regulations to assure quality. The key ones have been stated below:

Sl.No	Standard developed	Remarks on the standard
1.	A 27 minutes training video on Outcome based education and Bloom's Taxonomy	This video will help faculty members to understand the link between the various levels of knowledge as stated by Bloom and its need for the accreditation process stated by NBA
2.	Academic Regulation 2014 (UG) - Norms and Rules	These regulations have been developed to make KCT excel in academics
3.	Academic Regulation 2014 (PG – E&T) - Norms and Rules	
4.	Question paper setting manual	Question paper setting manual to guide faculty to set question papers as required for Regulation 2014 for both UG and PG
5.	Manual for Assignments	The manual for Assignments will guide faculty to give assignments to students as required for Regulation 2014 for both UG and PG
6.	Standards for assuring R14 question paper requirements	The standards will guide faculty and the exam coordinators of each department to verify the question papers set to meet Regulation 2014 requirements.
7.	CARE 360^0 - Feedback format to update parents on the progress of their wards	The standards will facilitate communication between the Institution and parents to help students to take steps for overall professional grooming needed for good careers.
8.	The Board of Studies (BoS) panel format and guidelines	The standards will facilitate conduct of the BoS meetings for various programs (UG and PG)
9	The administration bodies for	The standard will help in streamlining

	accreditation activities	accreditation activities at the department level
10	Target setting and operational plan document for individual faculty and for departments	The document will help in channelizing the efforts of individual faculty and the departments as a whole to set targets and to achieve them for becoming contributors for meeting system requirements and beyond.
11	Developing a department organizational chart	The chart has been developed with consideration of experience and skills of faculty coordinators.
12	Group presentation procedure and rubrics for R15 (UG)	The procedure and rubrics have been developed
13	R14/R15 Internal test process (for conduct of internal tests)	The exam coordinators in various departments will be able to conduct tests as per KCT system requirements.
14	R15 Group presentation process with rubrics	The faculty will be able to use the process to organize and assess group presentations as specified in R15
15	A booklet on "OBE" for use by students and faculty has been prepared	The users of the booklet will be able to understand the underlying principles in OBE
16	Outcome Based Education (OBE) – CBCS curriculum & syllabus format for Regulation 2015 (R15) that includes the processes of developing PEOs, POs and survey forms to be used in assessing COs and POs	The various departments will be able to use the format to prepare the CBCS curriculum and syllabus for R15 in line with OBE requirements

(b) Standards developed to Institutionalizing quality assurance strategies and processes:

Sl.No.	Date	Details	Participants
(Academic Year 2009-2010)			
1	31.10.2009	Orientation program for class advisors and release of manual for class advisors	58 Class Advisors
2	13.11.2009 (09.30 a.m. to 03.30 p.m.)	Workshop on Scientific Teaching Model	16 Teaching Faculty
3	19.12.2009	Orientation program for Ward – Counselors	134 Ward Counselors
4	22nd and 23rd January 2010	Leadership workshop on effectiveness and vision	30 Deans / Director / HoDs and Senior Faculty

		@ Karl Kubel Institute for developmental Education, Mankarai, Annaikatti road, Coimbatore.	
(Academic Year 2010-2011)			
5	29.06.2010 (09.30 a.m. to 04.30 p.m.)	FDP – Academic Orientation Program	Newly recruited teaching staff/10
6	03.07.2010 (09.30 a.m. to 04.00 p.m.)	FDP – Workshop on Scientific Teaching Model	Newly recruited teaching staff/13
(Academic Year 2011-2012)			
7	21.06.2011	FDP – Induction Training Program	48 newly recruited Teaching Faculty
8	10.01.2011 (AN)	Workshop on Structuring Strategy for Teaching Mathematics	24 Teaching faculty from Various Colleges
9	13.01.2012 (AN)	Workshop on NBA Readiness	11 Teaching faculty of MBA dept
10	22.02.2012	Faculty Development Programme	123 Teaching Faculty of KCT
11	17.03.2012	Faculty Development Programme	106 Teaching Faculty of KCT
(Academic Year 2012-2013)			
12	3rd & 4th July 2012	FDP - Orientation Program for New faculty	35 teaching faculty of KCT
13	09.07.2012	FDP – Training Program on PEOs and Outcomes	153 teaching faculty of KCT
14	3rd, 4th and 5th September 2012	Faculty Development Program by Academic Staff College, VIT University – Vellore	35 teaching faculty of KCT
15	18.09.2012	Training Program on Engineering Graphics	11 teaching faculty of KCT
16	18.10.2012	Workshop on Evolving PEOs (for B.Tech. Bio Technology)	22 teaching faculty of BT and S&H
17	19.10.2012	Workshop on Evolving PEOs (for B.Tech. Fashion Technology)	22 teaching faculty of FT and S&H
18	25.10.2012	Workshop on Evolving PEOs (for B.E. ECE)	26 teaching faculty of ECE
19	07.11.2012	Workshop on Evolving PEOs (for B.E. ME)	28 teaching faculty of ECE
20	16.11.2012	Workshop on Evolving PEOs (for B.E. Civil Engineering)	10 teaching faculty of CE

21	10.12.2012 (02.00 p.m. to 03.30 p.m.)	Introductory session on NBA Tier – I Requirements for B.E. Aeronautical Programme	06 teaching faculty of aero
22	11.12.2012 to 15.12.2012	Faculty Development Programme on Engineering Mechanics	19 teaching faculty of KCT
23	11.12.2012 (02.00 p.m. to 03.30 p.m.)	Session on modifications to be made in the programme outcomes – as per the new criteria for NBA Tier – I documentation	All teaching faculty of BT and FT
24	12.12.2012 (02.00 p.m. to 03.30 p.m.)	Introductory session on NBA requirements for MBA Programme	All teaching faculty of MBA
25	13.12.2012	Workshop on Evolving PEOs (for B. Tech. Textile Technology)	12 teaching faculty of TXT
26	26.12.2012	Workshop on Evolving PEOs (for B. Tech. Information Technology)	15 teaching faculty of IT
27	05.01.2013	Workshop on Evolving PEOs (for B.E. E&I)	15 teaching faculty of E&I
28	18.01.2013 (10.00 a.m. to 12.30 p.m.)	Training program on Assessment and Evaluation of (program outcomes) teaching faculty of FT department	FT department faculty
29	19.01.2013 (09.30 a.m. to 11.30. a.m.)	Session on NBA – SAR report for Aeronautical Engineering	Faculty of Aero Engineering
30	02.02.2013 (09.00a.m. to 01.00 p.m.)	Workshop on Evolving PEOs (for B.E. Aeronautical Engineering)	09 Faculty of Aero Engineering
31	02.02.2013	Training program on Assessment and Evaluation of program outcomes for B. Tech. BT	Faculty of BT
32	14.02.2013 (09.00a.m. to 01.00 p.m.)	Workshop on Evolving PEOs (for B.E. Mechatronics Engineering)	08 Faculty of Mechatronics Engineering
33	16.02.2013 (09.00a.m. to 01.00 p.m.)	Workshop on Evolving PEOs (for B.E. Computer Science and Engineering)	19 Faculty of CSE
34	27.02.2013 (11.15 a.m. to 01.30 p.m.)	Induction Training Program -- Teaching Learning Process	34 New teaching Faculty of KCT
35	28.02.2013	Induction Training Program --	34 New teaching Faculty

	(10.45 a.m. to 12.00 p.m.)	NBA Norms	of KCT
36	28.02.2013 (12.00 noon to 01.00 p.m.)	Induction Training Program -- Mentorship	34 New teaching Faculty of KCT
37	20.05.2013 & 21.05.2013	NBA training programme for preparation of SAR under tier - 1 format by Dr. V. Krishnamurthy Prof & Head, Bio Tech Department PES Institute of Technology Bangalore.	40 teaching faculty of KCT
(Academic Year 2013-2014)			
38	11.07.2013 (08.30 a.m. to 02.30 p.m.)	Induction Training Programmes – To understand the various board / council norms	21 New teaching faculty of KCT
39	14.08.2013 (09.00 a.m. to 01.00 p.m.)	FDP on Engineering Graphics – unit 1	16 teaching faculty of KCT
40	21.08.2013 (09.00 a.m. to 01.00 p.m.)	FDP on Engineering Graphics – unit 2	16 teaching faculty of KCT
41	21.08.2013 (09.00 a.m. to 01.00 p.m.)	FDP on Engineering Graphics – unit 3	12 teaching faculty of KCT
42	02.09.2013 (09.00 a.m. to 01.00 p.m.)	FDP on Engineering Graphics – unit 4	12 teaching faculty of KCT
43	10.09.2013 (09.00 a.m. to 01.00 p.m.)	FDP on Engineering Graphics – unit 5	12 teaching faculty of KCT
44	31.01.2014 (10.30 to 01.00)	NBA Internal Audit – B. Tech Bio Technology Programme	Faculty members of BT department
45	01.02.2014 (09.00 to 10.45)	NBA Internal Audit – B. Tech Fashion Technology Programme	Faculty members of FT department
46	15.02.2014 & 16.02.2014 (09.00 a.m. to 05.30 p.m.)	Workshop on NBA Tier 1	55 teaching faculty of KCT

47	06.03.2014 (01.30 pm to 03.30 pm)	FDP – Training on NBA Bloom's Taxonomy	Faculty members of CSE dept.,
48	19.03.2014 (02.00 pm to 04.30 pm)	Workshop on Individual Faculty's Work toward (NBA) accreditation	Faculty members of ECE dept.,
49	24.03.2014	NBA internal audit – 17 Institutional specific files maintained by S&H department	NBA coordinators in S&H department
50	11.04.2014	Workshop on developing PEOs and Pos for B.E. Automobile Engineering Programme	Faculty members of Automobile dept.,
51	25.04.2014	Workshop on Outcome based Education and Bloom's Taxonomy	43 faculty members of KCT
52	28.04.2014	Workshop on Assessment Tool Trainer: Dr. S. Baskar/TCE/Madurai	Faculty members of KCT
(Academic Year 2014-2015)			
53	10.06.2014 & 11.06.2014	Induction Training Program	New faculty members of KCT
54	20.06.2014	Workshop on NBA process to develop meaningful curriculum	MCA department faculty
55	21.06.2014	Academic administration improvements meeting for the following depts., (ECE, E&I, CSE, IT, EEE)	Faculty of the concerned department
56	23.06.2014	Academic administration improvements meeting for the following depts., (Aero, Auto, ME, TXT, MCE)	Faculty of the concerned department
57	25.06.2014	Academic administration improvements meeting for the following depts., (CE, BT, FT, S&H, MCA)	Faculty of the concerned department
58	25.06.2014	Review of presentations (Review of Mock class room presentations made my newly inducted faculty)	New faculty members of KCT
59	16.08.2014	Workshop on assessment tools & calculating assessment values for accreditation process	IT Department faculty of KCT
60	21.08.2014	Workshop on assessment tools and calculating assessment values	15 teaching faculty of CSE department

		for accreditation process	
61	25.08.2014	New faculty Induction Training Program (OBE and Outcome Based delivery)	24 New faculty
62	26.08.2014	New faculty Induction Training Program (Handling theory and laboratory sessions)	24 New faculty
63	02 & 03.09.2014	Workshop on Question Paper Setting and Assignment patterns	For handling 1st year staff
64	05.09.2014	Workshop on Question Paper Setting and Assignment patterns	For handling 1st year staff
65	08.09.2014	Trainer Interview	
66	15.09.2014	Workshop on Question Paper Setting and Assignment patterns	For handling 1st year staff
67	20.09.2014	Workshop on Question Paper Setting and Assignment patterns	For 09 faculty handling 1st year courses
68	01.10.2014	Workshop on assessment of Cos, POs and PEOs for meet accreditation requirements	For 15 faculty Mech. Engg. department
69	07.10.2014	Workshop on Question Paper Setting for PG R14 requirements	For 29 faculty handling 1st year PG courses
70	31.10.2014	Workshop on Designing Curriculum for Regulation 2014 (R14) based on OBE Concepts	For 6 faculty of IT department
71	13.12.2014	Workshop on assessment tools and assessment of outcomes (Cos, POs and PEOs)	For 26 faculty of Mech. Engg. Department
72	28th to 30th January 2015	Workshop on Quality Initiatives in Technical & Higher Educational Institutions (in Compliance with NBA & NAAC Accreditation) at Engineering Staff College of India (ESCI), Hyderabad	Dr. R. S. Kumar, Principal & Prof. S. Bhaskar, CAE
73	09.02.2015	Training on Question Paper Setting and Types of Assignment – R14 (Regulation 2014)	24 Faculty handling courses of 1st year (2nd semester) UG programs
74	21.02.2015	Accreditation (NBA) prepardness audit for BE.(EEE) program wasconducted by external expert: Dr. A. Abudhahir, Prof & Head, Dept. of ElE, National Engg. College, Kovilpatti 625 503	All faculty from EEE department and faculty representatives from other departments

		Tamilnadu **(Audit coordinator: Dr.A.Vasuki Prof/ECE-KCT)**	
75	22.02.2015	Accreditation (NBA) prepardness audit for BE.(ECE) program wasconducted by external expert: Dr. A. Abudhahir **(Audit coordinator: Dr.A.Vasuki Prof/ECE-KCT)**	All faculty from ECE department and faculty representatives from other departments
76	26.03.2015 27.03.2015	Workshop on Teaching model, Revised Bloom's Taxonomy, Regulation 2014, Question paper setting, Assignment patterns and Lesson plan (During the induction training for new faculty)	19 Newly recruited faculty members of KCT
77	06.04.2014	Training on autonomous regulation (R14) question paper setting and assignment patterns to meet R14 requirements	27 faculty members of various departments of KCT who will be handling courses for the second year students in the academic year 2015-16
78	08.04.2014	Training on autonomous regulation (R14) question paper setting and assignment patterns to meet R14 requirements	26 faculty members of various departments of KCT who will be handling courses for the second year students in the academic year 2015-16
79	09.04.2014	Training on autonomous regulation (R14) question paper setting and assignment patterns to meet R14 requirements	24 faculty members of various departments of KCT who will be handling courses for the second year students in the academic year 2015-16
80	10.04.2014	Training on autonomous regulation (R14) question paper setting and assignment patterns to meet R14 requirements	26 faculty members of various departments of KCT who will be handling courses for the second year students in the academic year 2015-16
81	30.04.2015	Training on autonomous regulation (R14) question paper setting and assignment patterns to	10 faculty members of various departments of KCT who will be handling

		meet R14 requirements	courses for the second year students in the academic year 2015-16
82	13.05.2015	Workshop on Question Paper Setting	40 faculty members of various departments of KCT who will be handling courses for the second year students in the academic year 2015-16
83	14.05.2015	Workshop on Question Paper Setting	20 faculty members of various departments of KCT who will be handling courses for the second year students in the academic year 2015-16
84	15.05.2015	Workshop on Question Paper Setting	15 faculty members of various departments of KCT who will be handling courses for the second year students in the academic year 2015-16
85	16.05.2015	Workshop on Question Paper Setting	11 faculty members of various departments of KCT who will be handling courses for the second year students in the academic year 2015-16
(Academic Year 2015-2016)			
86	02.07.2015	Induction Training Program	New faculty members of KCT
87	16.07.2015	Workshop on Revised Bloom's Taxonomy and QP setting for Regulation 2014 (R14)	For MCE department faculty members
88	19.08.2015	Workshop on Accreditation (NBA) criterion 1,2 and 3 Trainer: Prof. S. Bhaskar CAE/KCT	46 faculty members from 09 departments of KCT
89	14.09.2015	Session for KLDA on "How to make teaching interesting and dynamic" Trainers: Prof. S. Bhaskar CAE/KCT	14 faculty from various academic departments of KCT
90	8th to 10th	Training on Outcome based	

	October 2015	Education (OBE) and Outcome based Accreditation (OBA) concepts – Module 1 Trainer: Prof. S. Bhaskar CAE/KCT	Around 100 faculty from all Engineering &Technology departments, KCT BS and MCA (The participants will be able to use the OBE concepts in the academic activities they perform with a great deal of understanding.)
91	12th 14th and 15th October 2015	Training on Outcome based Education (OBE) and Outcome based Accreditation (OBA) concepts – Module 2 Trainer: Prof. S. Bhaskar CAE/KCT	
92	16th,17th and 19th October 2015	Training on Outcome based Education (OBE) and Outcome based Accreditation (OBA) concepts – Module 3 Trainer: Prof. S. Bhaskar CAE/KCT	
93	26th,28th and 29th October 2015	Training on Outcome based Education (OBE) and Outcome based Accreditation (OBA) concepts – Module 4 Trainer: Prof. S. Bhaskar CAE/KCT	
94	30th, 31st October and 2nd November 2015	Training on Outcome based Education (OBE) and Outcome based Accreditation (OBA) concepts – Module 5 Trainer: Prof. S. Bhaskar CAE/KCT	

6.5.5 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.

- No standard external members are part of IQAC – (CAE). However, external members from other committees such governing council, academic council, board of studies and IIPC provide their suggestions and the feasible solutions have been already implemented in teaching- learning, assessment, infrastructure facilities, curriculum and regulations development.

6.5.6 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?

Yes.

The Institution provides motivation to the students from disadvantaged sections of society by providing "Mahatma Gandhi" scholarship.

6.5.7 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres, etc.?

- On weekly basis, meetings are conducted at department level to review the academic, administrative, research and consultancy activities of the departments.
- At department level, course committee meetings are conducted thrice in a semester to review the conductance of courses.
- Once in a week, Principal conducts HODs meeting at college level to review the performance of departments, research activities, placements, consultancy, etc.
- Annual review meetings are conducted by the Principal to assess the performance of the departments on various parameters.
- In Board of Studies meetings conducted annually, review and redesign of the curriculum and syllabi, as per the requirement of the industry and society is carried out.
- Class committee meeting are conducted thrice in a semester.
- In addition, reviews are also conducted by the Statutory Committees, ISO external audit team and NBA audit team.

Any additional information regarding Governance, Leadership and Management, which the Institution like to include:

KCT Yugam:

An intercollegiate techno – cultural fest is being arranged every year at KCT, to enrich the dreams, hope, passion and ambition of the students.

The Gist of Events at Yugam – 2016

S. No.	Particulars	Nos.	Remarks
01	Events(Including Workshops)	130	Technical : 50 | Cultural & Literary : 40 | Workshop : 25 | Fun games : 15
02	Colleges Participated	150	Three Colleges from outside Tamilnadu (Kerala, Karnataka, Pondicherry)

03	Registered Student Participants	9543	From 150 Colleges
04	Workshops Conducted	25	Soliton, Bosch, Audi, L&T
05	Motivational Speakers	03	Major D.P. Singh, Dabbawalas and King Sidharth
06	Pro shows conducted	02	Ability Unlimited and Stephen Devassy
07	Stunt Shows	01	Cycle Stunt
08	Stalls	40	05 stalls were reserved for Differently – abled
09	Major Sponsors	08	ABT Foods, TVS, HP, CTS, Soliton, Bosch, Coco – Cola, KVB.
10	Days	05	February 9th to 13th 2016









Yugam – 2016

Coimbatore Innovation and Business Incubator (CIBI):

Coimbatore Innovation and Business Incubator (CIBI) is founded with the vision to take forward into the future the legacy of entrepreneurship built on technical skills and engineering capabilities in the Coimbatore region, by empowering the next generation of high-tech innovation and innovation led entrepreneurship in India.

Envisioned to become India's most successful hardware incubator, CIBI is building core competencies and capabilities in the three key strategic programs viz. **Innovation Labs, Business Accelerator** and **Sector Incubator**, to create impactful innovations and scalable businesses driven by the youth of India and the micro, small and large enterprises of India.



MANAGED INNOVATION PROCESS

Rapid Prototype	Field Test & Customer Trails	Product Design & QA	Product Certification & Diagnostics
Objective: Define the target product concept, starting with an idea to solve a problem. Offer general purpose product toolkits and simulator tools with training sessions and materials, to translate the idea into a prototype giving shape to the product concept.	**Objective:** Test feasibility and acceptance of product concept in solving the target problem. Facilitate direct industry/ customer access for quick and effective field testing to validate product features and handling in end-user conditions, thereby validating the product concept.	**Objective:** Convert product concept to product design with specifications for production. Create shared capacities with supplier partners to productize the proven design, followed by product validation to ready the product for field deployment and testing.	**Objective:** Certify against Industry standards and to diagnose product performance and quality. Create shared capacities with technology partners to enable cost effective product certification and to perform diagnostics and upgrades as part of customer support.

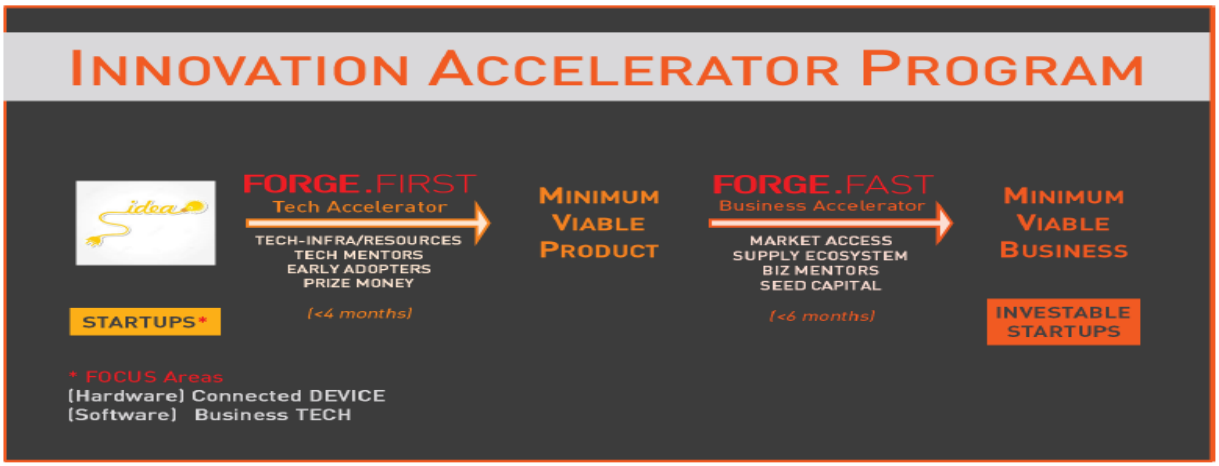
STARTUP LIFECYCLE

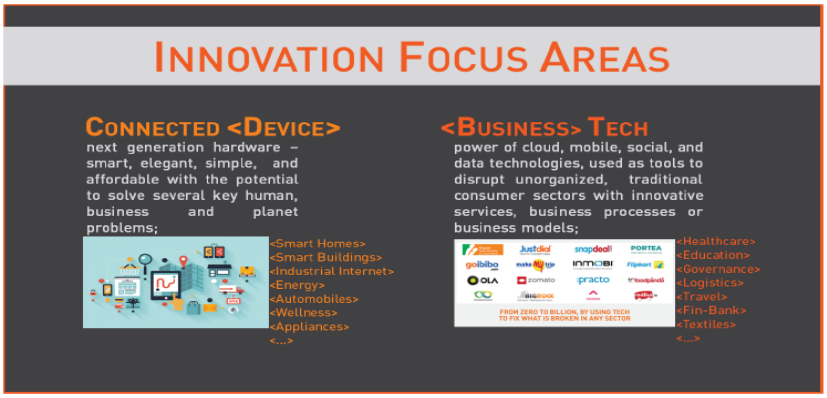


IDEATE	PRODUCTIZE	VALIDATE	EXECUTE
Ideate an attractive solution solving a critical problem and delivering customer value.	Productize the minimum customer offering and market entry plan to validate the business model.	Validate a business model by proving repeatable revenues, now ready for execution.	Execute a robust business plan towards accelerated and sustained profits.
Market immersion to discover the most potential target customer facing most severely the core problem you are trying to solve.	Product development and business planning to launch the minimum viable product to validate the most critical assumptions of the business (profit) model.	Acquire customers to prove product-market fit, build market share with positive gross margins, firm-up competitive advantages and business process.	Raise capital, invest in scaling business processes, expanding market share and sustaining competitive advantages to achieve high profitable growth.

FORGE
An Initiative by CIBI, A Sakthi Group Company in Coimbatore

CIBI – Coimbatore Innovation and Business Incubator, an incubator company promoted by The Sakthi Group, and hosted by Kumaraguru College of Technology (KCT), is catalysed and supported by NSTEDB Division, Department of Science and Technology, Govt. of India. CIBI shall build competencies & capabilities through programs, partners and people in the strategic areas of Innovation Labs, Business Accelerators and Sector Incubators.





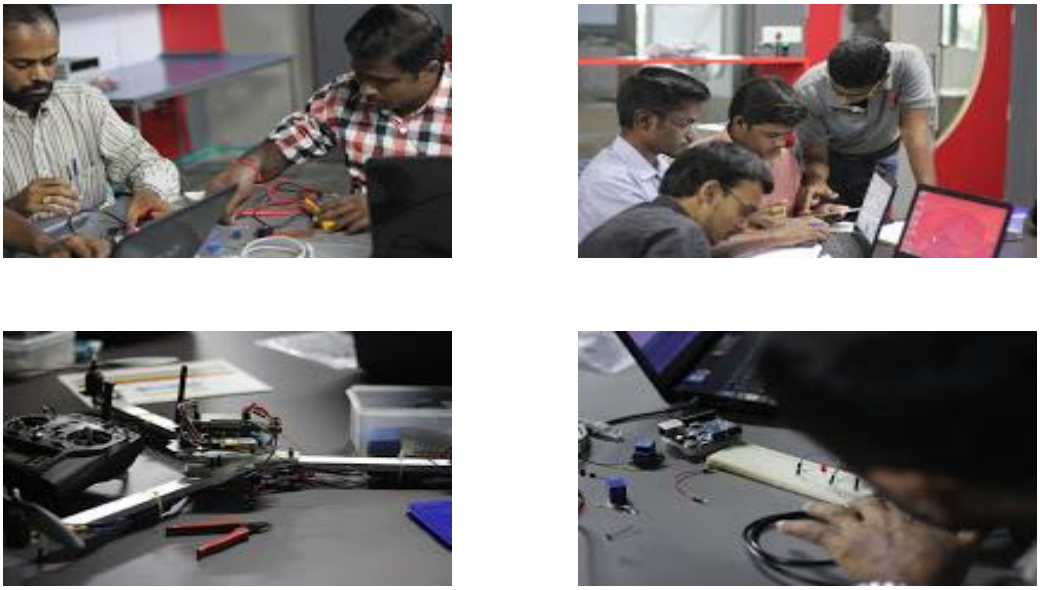


Infrastructure of FORGE

HW junction:

HW junction is aimed at becoming a community led, managed and curated platform in Coimbatore for hardware enthusiasts to learn, to build, to share, to play, to tinker, to meet and to build a robust network.

FORGE.FACTORY is a startup/innovator hub and marker space for the Innovators and entrepreneurs to forge their hardware ideas into launch ready products and investable startups.



Activities at HW Junction

MVB Boot camp:

Business Model very simply put is the method of solving a problem profitably! A startup looking to solve a severe problem (consumer, business or society) through an innovative technology, product, business process or business model, has to first prove that it can not only solve the problem effectively but can do so profitably. This milestone of building and achieving proof is referred to in FORGE as Minimum Viable Business (MVB).

To equip startup entrepreneurs and innovators with the right skills we have developed the Startup CEO Toolkit based on our MVB framework that offers the innovators and startup entrepreneurs the simple-yet-highly effective, light-weight yet rigorous, and analytical yet visual approach with the methods and tools to rapidly plan, build and achieve proof for their business models!

We offer the MVB Boot Camp - a 3 day very intensive and hands-on workshop where startup entrepreneur's work with peers and business mentors/experts to learn and apply the MVB tools and methods in order to rapidly transform their technology, product, or business ideas (A.K.A startups) into Investable Startups.

Over 100 startup entrepreneurs in Coimbatore, Chennai, Bangalore, Hyderabad, New Delhi, and Ahmadabad have attended the workshops and have greatly benefited and have also expressed their delight.



MVB boot camp

MVB Primer:

We also offer the Minimum Viable Business (MVB) Primer - a half-day learning and orientation session to introduce startup entrepreneurs to the concepts of Disruptive Innovation and Minimum Viable Business.

CRITERION VII: INNOVATION AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the College conduct a Green Audit of its campus?

Yes, the college conducts an internal audit through the Institute's team and clubs to constantly maintain a green cover on campus.

- The college is located in 150 acres of land with a good blend of about 4600 trees comprising mainly of Mahogany, Mahwa, East Indian Redwood, Jambul, Amla.Also the 45 buildingsinside the campus have beautiful lawns around them.Every year new trees are planted as part of important campus celebrations.
- The recently constructed buildings are very spacious and comply with the green building format comprising of spacious classrooms,corridors, optimum lighting and ventilation.
- The horticulture division of the college is headed by an expert who has done his Post-doctoral Fellowship in degraded soil management and also served as Head of Environmental Science Department at Agricultural University, Coimbatore. His team comprises of a supervisor and 16 gardeners as permanent employees of the college and more workers are hired on a temporary basis as the need arises. This team is in-charge of maintaining the trees and gardens in the campus with an annual budget of minimum 25 lakhs.



Dr. N. Mahalingam Vigyan Bhavan

- The NSS unit of the college and Nature Club regularly conduct tree plantation camps which also include herbal trees. Swachh Bharat programs help the students

to realize the importance of cleanliness and how they can do their part to maintain a clean and green college campus. Other programs outside the college are also encouraged, like organizing My City Clean City, School cleaning and gardening.



Tree Plantation Program
by Nature Club of KCT



Planting of trees
by students of KCT

- Road cleaning machines are used on a regular basis to maintain a dust free atmosphere in the campus.
- Dust bins are placed in all buildings and around the campus to collect waste.
- Sewage Treatment Plant (3 Lakh Liters/ day)is functional and treated water is used to irrigate the plants on campus
- Nature Club activities: The Nature Club planted and maintained 1500 saplings in and around the campus. As a fruitful outcome, the Nature Club of KCT was honored with 'Green Scene' in 2011 by THE HINDU. For the year 2012, Nature Club KCT was awarded with Nature Conservation Award by Osai. The Nature club has done several projects with organizations including 350.Org, Green Peace, WWF, Siruthuli and Osai. At present, in an attempt to conserve sparrows, which have become endangered, our activists have placed nests & feeders in our college campus.



Medicinal Plant Garden at KCT



Camp Organized by NSS



Tree Plantation as part of Induction Program for First year students

7.1.2 What are the initiatives taken by the College to make the campus eco-friendly?

❖ **Energy conservation**

- ✓ Energy efficient CFLs and LEDs are used for lighting
- ✓ Students and faculty are advised to switch off all lights and fans before they leave the rooms in the buildings.
- ✓ Good ventilation is available in the classrooms with sufficient doors and windows tominimize power consumption.
- ✓ In-house developed Management Information System reduces the usage of paper.
- ✓ Drip irrigation and sprinklers are used for gardens thereby saving on water
- ✓ To create awareness about electricity utilization and conservation, the Nature club of KCT initiated the event "Earth Hour" in Coimbatore.



Earth Hour by Nature Club

❖ **Use of renewable energy**

✓ Solar water heaters have been installed in the hostels which help in conservation of electricity



Solar Water Heaters in the hostels

❖ **Water harvesting**

✓ Provisions for Rain water Harvesting is available and this water is used to replenish the natural water table thereby making it possible to recharge the



bore wellssituated on the campus. This water is supplied to all the restrooms.

Storage Tank for Rain Water Harvesting

✓ Installed RO Plant purifies water which is then used as drinking water



Reverse Osmosis Plant

❖ **Check dam construction**

✓ The terrain by nature does not demand a check dam construction

❖ **Efforts for Carbon Neutrality**

✓ In case a tree has to be cut down due to any disease, another sapling is planted as a replacement. This helps in maintaining the numberof trees thus managing the carbon dioxide content on the campus. Apartfrom these practices the NSS and Nature club have also contributed to thelush greenery enjoyed within the campus with the various eco-friendlyand green environmentactivities.

❖ **Plantation**

✓ A large number of trees are planted on the college premises on a regular basis.Recycled water from the sewage treatment plantviaDrip irrigation is used, thereby conserving the water.

S.No.	Activity	Details
1.	Number of Trees and Plants	4600
2.	Varieties of Trees	74
3.	Varieties of Medicinal Plants	60
4.	Tilling and aeration	As required
5.	Trimming of hedges	Every 15 days
6.	Trimming of tree branches	As required
8.	Pest Control	Bi monthly

7.	Sweeping surrounding areas & Watering plants	Daily
8.	Use of organic manure	Bi monthly
9.	Weeding	As required



Plantation in the Campus



Trees near Academic Blocks



Herbal Garden in KCT



Sewage Treatment Plant

❖ **Hazardous waste management**

✓ Use of plastics minimized in campus and in nearby areas



✓ Anti-plastic Drive:The nature club volunteers supported and helped the residents of a nearby village in removing the plastic bags and other non - bio degradable waste material from Kurichi Lake, Coimbatore. They also take steps like preparing charts or placards to stress on the importance of wet lands and threat of plastic bags.

Help in Removal of plastic bags from a nearby village by Nature Club students

❖ **e-waste management**

✓ All old computers and other e-waste is handed over to an approved agency that takes care of responsible disposal of waste.

❖ **any other**

✓ Re-use of one-sided paper for some internal communications and to take photocopies.

✓ Biometric Attendance for faculty helps in reducing the use of paper

✓ All internal communication between faculty is carried out through e-mails which help in saving paper.

✓ Detail on the consumption of electricity is sent through email to the faculty and students to create awareness on its usage.

✓ All food waste is collected in a compost pit which is used later as manure for plants.

✓ Other degradable waste is collected at a common place which istaken by an agencyto be disposed.

7.2 Innovations

7.2.1 Provide details of innovations introduced during the last four years which have created a positive impact on the functioning of the College.

❖ **Teaching- Learning process**

✓ **Fast Track**:

Students who maintain a CGPA of greater than or equal to 8.5 at the end of fourth semester and have passed all courses in first appearance (from semester 1 to semester 4for regular category / semester 3 and semester 4 for Lateral Entry) are eligible for a fast track program. Students can opt for the fast track program from the Fifth Semester. The three elective courses of the eighth semester can be taken in the earlier semesters (maximum one per semester) by the students. This will enable the students to be completely free from theory courses in the Eighth Semester. Students can pursue internship / industrial projects on a full time basis.

✓ **Industry Oriented One Credit Courses:**

Students can also opt for one credit industry oriented courses fora minimum of 15 hours duration, which will be offered by experts from the industry on specialized topics apart from the prescribed courses of study of the program.Studentscan complete such one credit courses during the semesters 5 to 7 as andwhen these courses are offered by the departments,there is no limit on thenumber of one credit courses a student can register and successfully complete duringthe above period. These courses are assessed by experts from the industry.

✓ **Accelerated Mode**:

The final year students complete the eighth semester classes within a month so that they could also pursue internship/industrial projects on a full time basis.

✓ **Laboratory component and Project beyond the Theory Subject:**

Every theory subject has a laboratory component introduced where students can work with simulation tools to understand the concept and then fabricate the same in the laboratorys. Minor projects related to the syllabus are also allotted to students.

✓ **Setting-up Industry Sponsored Laboratories**

- Intel sponsored IoT based assistive technology laboratory established at IT department.
- The Electronics and Instrumentation Engineering Department has also started a center of Excellence in collaboration with Yokogawa.

These Laboratories would help in introducing the students to the state of the art technology currently in use at the industry. It also gives them an opportunity to interact with personnel from the industry and acts as a platform for exchange of intellect.

✓ **Outcome Based Education culture**

All processes in alignment with OBE requirements to face OBA

✓ **Regulations 2014**

This is a new regulation that promotes Outcome Based Education. It offers the right blend of Core, General Engineering Sciences and Technical Arts and Basic Science courses to facilitate the learners to acquire the needful outcomes.

This new curriculum and syllabus withinnovative changes elevates the level of knowledge, skill and attitude of the students on par with the students across the globe.

✓ **Regulation 2015(CBCS)**

This is an upgraded version of Regulation 2014 with CBCS components in place. This regulation includes the processes of developing PEOs, POs and survey forms to be used in assessing COs and POs.

✓ **Mandatory tutorial classes in all analytical courses**

All Analytical courses have mandatory tutorial classes every week. These classes are handled by two or more faculty of the department to give the students a hands-on enabling approach to the course as well as improve problem solving skills.

✓ **Self-study courses for PG**

The self-study courses help the Post Graduate students to work independently which promotes lifelong learning.

- ✓ **Projects**

  The students are encouraged to take up Inter disciplinary projects which would help them to understand the various aspects of designing and launching an entire product. These minor projects every semester promote project management and time management.

- ✓ **BEC integrated into curriculum**

  The Business English Certificate course has been integrated into the curriculum to enhance the skill of the students on a global scale.

❖ **Examination Procedure**

- ✓ **Internal exam Evaluation process :**

  Itis a standardized process to ensure OBE requirements. Internal Exams have different question paper patterns and the Third internal exam is entirely an online exam consisting of Multiple Choice Questions(MCQ)again of different categories similar to UPSC pattern. This kind of exam encourages the students to prepare well and gives them some exposure to answer other competitive exams later. The students have Negligible choice and exams are 100% OBE oriented.

- ✓ **Question paper patterns abolish selective learning:**

  The UG examination question papers have only one extra question in the entire question paper. The PG examination has no choices in the entire question paper.

  This would encourage students to cover the entire syllabi which would help them in the long run towards knowledge enhancement.

- ✓ **Valuation**:

  Valuationofanswer papers is done using a dummy number system to ensure fairness**.**

- ✓ **Supplementary exams**

  Only odd semester exams in the odd semesters and even semester exams in the even semesters

- ✓ **Creative assignment patterns**

  The assignments during the semester are also of various patterns. It is left to the discretion of the faculty handling the course to choose the pattern like a written assignment, presentations or a project. The evaluation is based on set rubrics. This

helps to groom oral presentation skills, working in groups and lifelong learning through use of journal papers.

✓ **Group Presentation**

Two group presentations are mandatory in the CBCS curriculum.

✓ **CARE 360º feedback to parents/students(Complete Academic Review for Enhancement)**

It is a student's feedback report to improve the Institute-Parent interaction leading to overall grooming of our students.It includes details on academics, co-curricular, extracurricular performance of students, department activities,and Institutional events. This is sent to the parents once every semester to update them on the institute's progressive journey.

❖ **Centre for Academic Excellence (CAE) Same as IQAC**

The Centre for Academic Excellence (CAE) was established at Kumaraguru College of Technology in September 2009. The activities of the center can be broadly classified as follows:

- To organize and impart training to the faculty members to develop their capabilities for quality academic delivery.
- To standardize academic activity by developing systems and monitoring the working of implemented systems with the objective of assuring sustained academic growth.
- To provide academic orientation, soft skills and placement training to students for enhancing their employability.

❖ **KLDA(KCT Learning and Development Academy)**

KLDA is committed to enhancing the academic development of faculty in the educational Institutions through innovation, capacity building and scholarship in design, implementation and evaluation of faculty development.

Innovations in Leadership and Managementskills for students

- **iQube (*Innovate. Incubate. Incorporate*)**

An Innovation Centre at KCT that acts as a platform for peopleworking on their ideas to see it as a commercially viable product. iQube is specially meant for students to improve their technical experience. It has a Research and Development laboratory where one can experiment an idea with theavailable resources in the laboratory. Some of the Apps the students havedeveloped are Me & Bike, Spectral Match, Expense Management etc.



iQUBE



Students working on projects with Rasberry pi

- **Innovators Club**

The Kumaraguru Innovators Club (KIC) is a student initiative in KCT towards innovation, started in the year 2013 exclusively for I year undergraduate students. It is unique of its kind in our campus. The members work towards learning new technologies through innovations which would be benevolent to the society. The vision of the club is to ENCOURAGE INNOVATORS. Further, it also aims to build the ideas into a prototype.



Inauguration of Innovators Club



Students displaying their innovations

❖ **Entrepreneurship**

In order to ignite the passion for entrepreneurship among the young students and to promote the students to start their ownventures, the KCT Entrepreneurship development Cell (EDC), christened as LEED was established. 150 student volunteers wereselected from all the branches of Engineering (II year) and an orientation program was conducted.



Inauguration of LEED

✓ **Namma Cafe**

Namma Cafe is a first of its kind, student start up in Kumaraguru College of Technology (KCT). It is an outcome of theentrepreneurial spirit of the young Technopreneurs of the League for Entrepreneurial Empowerment and Development (LEED).



✓ **Angadi**

It is a trade fair which brings various products and a service sourced from different locations under one roof and provides a platform to nurture the talents of the students. This is an event which is ideated, planned and organized by the MBA students of KCT Business School. Each year Angadi hones the knowledge and skill of the students in three ways – One, it nurtures the entrepreneurial spirit of the students through investments and running a small business. Second, it develops the marketing skills of the students through positioning their products, understanding the competition, promotion schemes and pricing. Thirdly, it advances the event management skills of the students.



Orientation and Guest Lecture by Prof. Gadi Ariav from Tel Aviv University, Israel, on Entrepreneurship

❖ **Engineering Immersion Boot Camp(EIBC)**

At the EIBC, parents are oriented about the legacy and focus of the Institution to fulfill the dreams and aspirations of the students. The students are taken to their respective departments and elucidated the different avenues open for them to explore and excel in their chosen field of interest. They are divided into 40 batches called Brigades for the two-day Engineering Immersion Boot Camp. The objective of the camp is to guide the engineering aspirants to have a smooth transition from school to college, understand the nuances of engineering education and graduate as engineers. The freshers undergo an online Pre-Assessment test to evaluate their aptitude and

reasoning ability, learning style and personality traits. Based on the performance of students, they are categorized as Blue – Advanced,Red – Intermediate, Green – Beginner.A bridge course is conducted to facilitate a smooth transition to imbibe Engineering education. Syllabus for each group is distinct and the Bridge Course focuses on developing the student's competency through intensive training in Mathematics, English and Computer Science, apart from Physics and Chemistry.

❖ **CEAD (**Center of Advanced Design)

CEAD was established to bring "Science to Engineering" culture using "High Performance Computing" and address the technological needs for the country through quality education and training.

- Enables students to face design challenges in aerospace, automotive, civil, electronics, mechanical, marine, mechatronics, energy, textile and other domains.
- Inculcates modern design tools for basic sciences of solids, fluids, heat transfer, electromagnetism leading to lifting and optimization and make the students ready for industry absorption.
- Offers students excellent design learning experience through project based learning and help them to develop a close empathy with the global engineering design community and experts in the industry through stronger industry academia collaboration and adjunct faculties from industries.
- Provides advanced solutions, research and development support to industries in product development with an experienced pool of faculty and advanced infrastructure available in various domains.
- Conducts regular training courses for students, faculty and industry engineers to update skill sets relevant to current design industry requirements and on industry specific design tools.



Students demonstrating projects to Dr. H. Devaraj, Vice Chairman UGC

❖ **One Year PG Diploma**

Cameron Manufacturing India Pvt. Ltd has signed a Memorandum of Understanding with Kumaraguru College of Technology, Centre of Excellence in Advanced Design (KCT CEAD) in 2014 for running a One year Post Graduate Diploma in Design Engineering for Oil and Gas Industry. The main focus of the course is to provide hands on training in designingthrough software commonly used in the industry. Apart from this it also provides an overall understanding of the theoretical aspects.

❖ **GARAGE**

The garage is an automobile project innovation and development center that enables students to take part in national level design competitions like SUPRA, BAJA and the like.It emphasizes on Make in KCT.

✓ **Team BLITZKRIEG**

A team of 25 students designed, fabricated and validated a single seater four wheeler off road vehicle to participate in BAJA and they were the winners of the Safe Vehicle Award.

✓ **Team ZEALL 20**

This team participated in IGKC 2015 held at LPU, Punjab to build a Go-Kart vehicle. They won the first place in the skid pad event, and were placed among the top ten teams.

✓ **Team FALCONZ**

This team of students designed a single seated vehicle operated by an electric motor. Power source is a battery and solar panels.

Team Sakthi Racing won the 4th place out of 165 teams in virtual round of SUPRA SAE INDIA.



BAJA Project

❖ **GATE Coaching**

All the departments handle classes towards coaching for GATE.As a result the enrolment of students to take up GATE has increased multiple fold.

7.3 Best Practices

7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the College

PRACTICE I

1. **Title of the Practice**

   Value Education for engineering students by Human Excellence Department

2. **Objectives of the Practice**

   - To transform students into thorough professionals who think beyond himself/herself and works for the welfare of the organization and society.

- To develop students into a physically fit, mentally tough and spiritually sound individual.
- To create leaders who are centered and inclusive in decision making.
- To sensitize young professionals about the social, national and global values.
- To create awareness in youth on the importance of values such as integrity, Probity and truthfulness.
- To propagate the richness of our traditional values and assert their relevance.

To promote physical fitness and mental toughness through yoga and meditation.



A Regular Yoga session in progress for students

3. The Context

The Department of Human Excellence is one of itskinds among engineering colleges in India. Kumaraguru College of Technology envisaged the need of value education for the students and instituted the department in 2009. Engineering Students are taught personal & professional values, yoga & meditation for physical and mental wellbeing. The department hosts two study centers, Swami Vivekananda Study Centre and Mahatma Gandhi Study Centre to disseminate the messages of these two personalities to the students. The details of the centers are as follows

Kumaraguru College of Technology committed to transform the life of the youth inaugurated Swami Vivekananda Study Centre at KCT on 2nd Nov 2011 with the following objectives.

• Creating employable youth and society conscious citizens.

• Empowering the youth to enrich the Nation.

• Channelling youth energy towards Character Building.

• Arousing enthusiasm among youth.

Swami Vivekananda Study Centre includes a photo gallery depicting the life andmessage of Swami Vivekananda, a unique library with about 800 inspiring books on the lifeand works of Swami Vivekananda and Sri Ramakrishna Paramahamsa. The center also screens documentary films on Swami Vivekananda, organizes tours to historical placesconnected with Swami Vivekananda and spreads the messages of Swami Vivekananda innearby villages. The center also conducts activities such as spoken Englishclasses, study circles, public speaking classes, hand- writing/ essay- writing classes, personality development classes and competitions like elocution, recitation, skit, painting, singing, etc.



Swami Vivekananda Study Centre

Kumaraguru College of Technology is not only committed to provide quality technical education but also prepares students for a virtuous life. Swami Vivekananda once said that “Education is not the amount of information that is put into our brain but a life building and a character building exercise. Mahatma Gandhi is an epitome who lived by the words of Swami Vivekananda. Studying the hallowed life of Mahatma Gandhi itself will inspire youth to pursue a virtuous life.

Vivekananda Study centre

Late Arutchelvar Dr.N.Mahalingam, founder of Kumaraguru College of Technology instituted MAHATMA GANDHI STUDY CENTRE (MGSC) on 11th June, 2009 to instil Gandhian thoughts in young minds. MGSC has a photo exhibition of the life of Mahatma Gandhi, an audio visual theatre and a library with about 100 books and video discs on the life and works of Mahatma Gandhi. Tributes on Mahatma Gandhi by eminent historians and statesmen such as Romaine Rolland, Martin Luther King Jr., Albert Einstein, Lord Richard Attenborough, Jawaharlal Nehru, Will Durant and Ho-chi Minh are also displayed in the study centre.



Mahatma Gandhi Study Centre

Since it is a novel initiative, the department is still evolving. Availability of qualified faculty, sensitizing the students about the importance of value education are some of the major challenges we face. The department endeavors to improve continually to keep abreast with the changing requirements of the student community and society at large.

4. The Practice

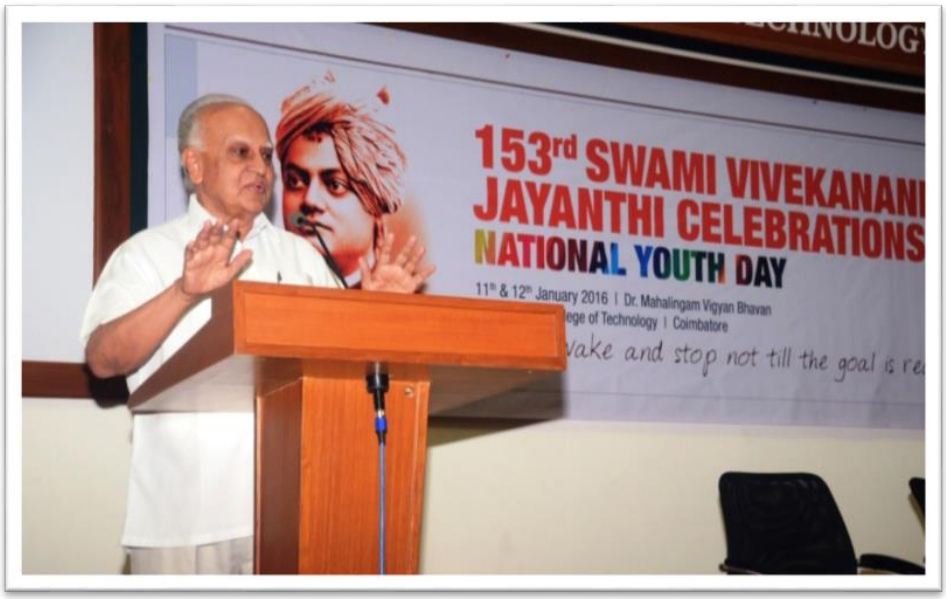
Department of Human Excellence offers courses on Value education which totals to four credits to the engineering students. The students are taken through various schema of value education like Personal Values, Family & Professional Values, Social Values, and National and Global values as envisaged by our chairman. Each of the courses contributes

one credit and the students are instructed for 30 hours (15 hours each of Theory and Practical).



Yoga Class

The department also commemorates the birthdays of Vivekananda and Mahatma Gandhiji to instil their messages to the students. SVSC celebrates Swami Vivekananda Jayanthi on 12th of January every year. Our chairman takes special interest in disseminating the messages of Swami Vivekananda.



Swami Vivekananda Jayanthi Celebrations

MGSC celebrates Gandhi Jayanthi (October 2nd), Martyr's day or Sarvodhaya Day (Jan 30th) every year with eminent Gandhian and academicians addressing the students about the importance of Gandhian way of life. Apart from them, some of the

other activities that are conducted at MGSC are

- Screening of Documentary films on Gandhiji.
- Briefing on Gandhiji's life and message
- Conducting discussion sessions on the life and message of Mahatma Gandhi.
- Conducting Inter-religious prayer meetings.
- Conductingessay and elocution competitions on various topics of Gandhian thought.
- Instructing students in carrying out Gandhian constructive programmes.
- Arranging lectures by distinguished Gandhian scholars on various aspects of Gandhianthought.

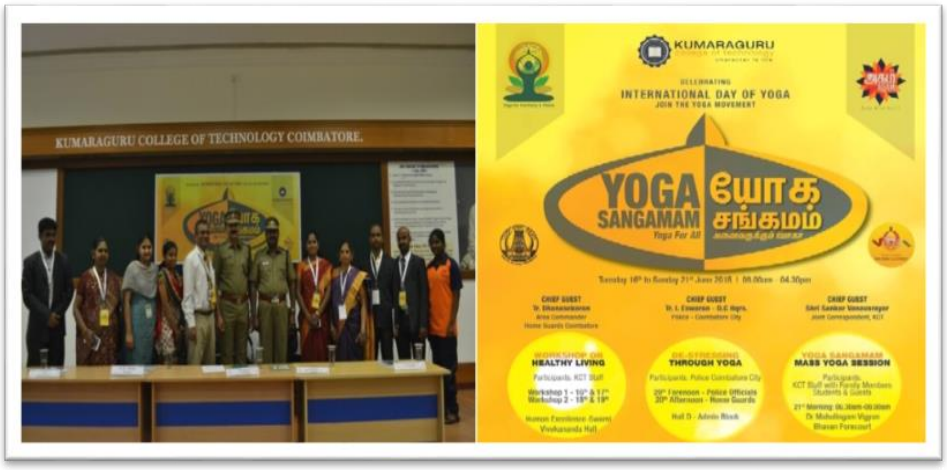


Guest Lecture at Mahatma Gandhi Study Centre

Kumaraguru College of Technology is a pioneer among engineering colleges to have introduced Value education to engineering students. Students also get to learn yoga and meditation as a part of the course curriculum. Students have now started their own club for Yoga and Meditation called 'AGAM' under the auspices of The Department of Human Excellence.

The department also conducts Faculty Development Programs for both internal and external faculty on yoga, meditation and general health. The department recently conducted a Faculty development program on Holistic Health, in which the staff and students of KCT participated enthusiastically. The department celebrated First

International Yoga Day on 21st June 2015 with great enthusiasm. Over 500 staff and students participated in the epic event conducted by Department of Human Excellence



AGAM Activities



AGAM forum of KCT under the tutelage of Department of Human Excellence conducts various events to inspire students to practice yoga. AGAM forum also conducts demonstrations by eminent personalities on Yoga and meditation regularly to reiterate the physical and mental benefits of yoga. Our students were thrilled and inspired to see 90 year old lady Ms. Nanammal performing yoga.

Ms. Nanammal performing yoga



Faculty of KCT participating in International Day



Lady Faculty and girl students during a Yoga meditation session



The Organizing committee of International Yoga Day

5. Evidence of Success

Practitioners of Yoga have always performed well in their academics and in other extracurricular activities. Although the department is yet to make a complete impact in the life of all students of KCT, a section of students who practiced yoga and meditation seriously have excelled in their respective fields. To quote a few

1. Mr. Deepak V, an alumnus of Mechatronics department stood first in the college with a CGPA of 9.5 and he is one of the first students to get placed in campus interviews. He has been sought by his organization (MuSigma) to teach yoga and meditation to its employees. He attributes his success to Value education by Department of Human Excellence

2. Mr. Mugesh M, a final year engineering student is the first in the college to get placed in the campus interview. He has won laurels in many yoga competitions representing KCT. A contingent of three people including Mr. Mugesh was selected for the international yoga competition to be held at Malaysia in May 2016



Yoga Participation in Large numbers

6. Problems Encountered and Resources Required

The major problem that the department faced, is, making value education more interesting to the students so that they are motivated to learn and imbibe it in their life. In today's digital world, students are attracted to electronic media and its various facets. As a result they have very little time to spend with family and on practices beneficial to holistic growth.Therefore we have proposed to use digital means to impart values.

We are changing and restructuring our curriculum to best suit the need of students and to bring in certain interest in students to learn value education through outbound training, Audio Visual Lectures, Games and Projects. The response is positive so far.

7. **Notes**

Yoga and meditation could be implemented as it improves quality of life through healthy and active living.



Yoga and Meditation Session in progress on International yoga day

PRACTICE II

1. Title of the Practice

Office Of Student Affairs (OSA)

2.Objectives of the Practice

The Office of student Affairs is based on the commitment to students success, in and out of the classroom, emphasizing on life-long learning by focusing on their

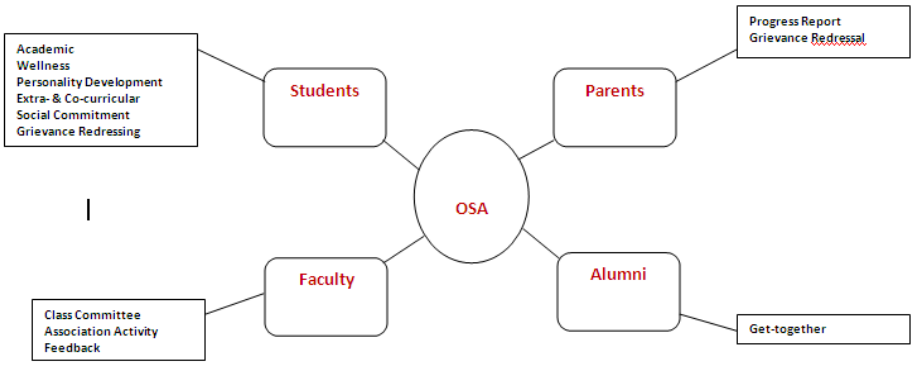
- Academic and personal well being
- Extracurricular activities
- Campus life
- Grievance Redressal ,
- Counseling for conflict management
- Nation Building

3. The Context

Programs, services, and efforts are dedicated to the development of an engaged community among students, faculty, parents and alumni where meaningful and authentic exchanges are valued.

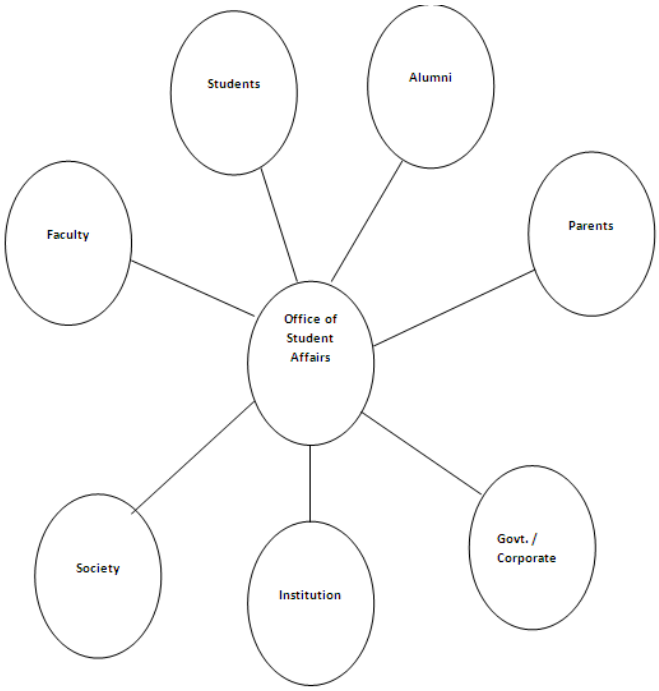
Facilities are provided and programs are conducted that foster the progress of students as whole persons by providing opportunities for academic, personal well-being, leadership and personality development, extra and co-curricular activities and social growth both in and out of the classroom.

By mechanisms for grievances redressing and conflict management the OSA strives to engage in a meaningful life-long relationship with students, faculty and parents.



Activities of OSA

4. The Practice



The OSA plays a vital role in hostel administration, student clubs and forums, arranging scholarships for needy students, disciplinary issues, department study tours, etc. It acts as a single point of contact for the various stakeholders and the Institution as shown below.

OSA as a single point of contact for all stakeholders

The Office of Student Affairs caters to the need of more than 5,600 students and hence it is important to have supporting bodies and imperative to work hand in

hand with many existing bodies and faculties.Mainly the Office of Student Affairs will have hand in hand relationship with

- Placement Cell to coordinate with the Training Programs
- Facilities Manager, DGM and Asst Manager - Security to carry out the needs as required by the students.
- Class Advisors for proper functioning of Class Committee meetings
- Physical Department for the student wellness

The above details have been discussed in detail in criteria 5.1.1

The following staff members will come under the purview of the Office of Student Affairs so as to ensure proper functioning of the office.

- Staff Facilitators of all the Clubs, Forums and Associations
- Staff coordinator of all the department Associations
- Alumni Coordinator
- Counseling staff

The College campus has more than 6000 students and 700 teaching and non-teaching staff. The College caters to the needs of the students and there may be Grievances and Conflicts. The Office of Student Affairs will deal with student's issues and conflicts and try to provide suggestions and solution.

In case there is a grievance the student counselor offers the student a safe space to share their limitations, fears etc. and come out with the choices that will take them towards progressive path. The students are facilitated to arrive at their own decisions. The counselor will be with the student throughout the process without judging or giving advice.

Grievance Redressing and Conflict Management will be done by the OSA with the assistance of the Student Council. The issue will be elevated to the OSA and Principal, if the Student Council is unable to handle it.



Format of Grievance Redressal

Some of the Student activities organized by OSA

- **Road Safety Patrol(RSP):** The RSP was started in 2011 with a tie-up with ABT Maruti and Ambal Maruti Driving Schools to create awareness by students regarding signal jumping, lane discipline, avoiding rash driving, helmet for safety and avoiding cell phones while on wheels.



Activity of Road Safety Patrol



Helmet Awareness Program

➢ **Namadhu Pangu:** It is a community development initiative towards enhancing quality of life of people dwelling in the neighboring villages around KCT by effectively utilizing the talent and expertise of committed students and faculty members who are keen to bring a change in the lives of the underprivileged.



Donation of benches to schools

➢ **Tamil Mandram:** The Tamil Mandram was started to promote Tamil Culture and to revivevarious Literary and cultural practices





Cultural programs organized by Tamil Mandram



Child prodigy Sabari Venkat as guest at Yugam 2016

- **Youth Red Cross:** The Youth Red cross is an important constituent of its Parent organization, The Indian Red Cross. The main aim of YRC is to

  - Create awareness about health of the person and of others.
  - Understand and accept civic responsibilities and to act with humanitarian concern to fulfil the same
  - Enable the growth and development of a spirit of service
  - Foster



- **Blood Donors club:** Initiative taken by student volunteers of KCT with a view to save precious lives of people by donating blood to needy patients absolutely free.

- **Music and Dance club:** Music and Dance plays a vital role in human life to smoothen both the mind and body under conditions of emotional stress and depression. This club helps the students to lead a healthy and meaningful life.





Music Club

- **Rotaract Club:** A youth club which is mainly focused on developing personal qualities and also service to mankind.



Function organized by Rotary Club

- **Studio KCT:** This is a forum for amateur photographers to hone their skills in photography as a hobby. It gives them a chance to learn about the mysteries of visual perception.





Studio KCT celebrations

- **Nature Club:**The need for a team of young minds to work for nature conservation always shimmered in and around the campus. Inspired by the people organizing their own communities worldwide, a desire to save the deteriorating Earth emanated among the students. A group of dedicated

volunteers among the students joined hands for our mission, 'Nurture Mother Earth and practice a greener life-style'.

- **National Service Scheme(NSS):**The MOTTO Of Our club is 'Not Me But You'. Here democratic living and need for self-less service is emphasized. Students learn how to be considerate to their fellow human beings and ultimately the welfare of a human being depends on the welfare of the society as a whole.

- **NCC**

There is an Army and AIR wing which renders to wholesome recreation, wide culture sympathies, abiding by social consciousness and working for the Nation. This also helps students to pursue a career in the Armed Forces as an officer.



Air Wing Boys



Army Wing Girls



Army Wing Boys on Republic Day



Army wing Girls on Republic Day

Hostel:

The Office of Student Affairs will coordinate the effective functioning of the hostels through the Hostel Committee which is comprised of students. The OSA will involve in the

selection of the Committee and reviewing the effective functioning of the committee. Routine inspection of hostel rooms and common facilities will be done to assess cleanliness and upkeep.Grievances will be redressed through the Committee. New facilities/systems required will be assessed and implementation will be done based on the committee's recommendations.

A few Ownership events

- EIBC (Engineering Immersion Boot Camp)
- Yugam
- College and Hostel Day
- Farewell to Final Years
- Hostel Admission
- Independence, Republic, Teachers Day Celebrations
- Engineers Day Celebrations
- Empowering school children

5. Evidence of Success

The Office of Student Affairs (OSA) started functioning in KCT from 1st August 2013 and the evidence of success is as follows:

The students who need financial assistance are identified and recommended by OSA to the college management. Following this practice the number of students receiving financial assistance from college has increased considerably, which has in turn reduced the mental stress of the student and parent. This is also reflected as better academic performance in most of the students.

The students are sensitized to the various club activities and encouraged to join the clubs as per their interest. This gives the student a chance to pursue his/her passion other than their chosen specialization and contributes to his/her overall development. This improves the confidence to face difficult situations later in life and it also paves a way to enrich their preparation to take up their careers successfully. The student participation in the club activities has increased tremendously, and the students are molded into individuals with good personality and character as our motto goes "Character is life".

The students are motivated to form their own clubs based on the inherent need and three new clubs have been registered this year, viz., The Coding Club of KCT, The Gaming

Club of KCT and The KCT Bikers. The students are encouraged to come up with an idea and the OSA validates and assists them to start these clubs.

The students are encouraged to volunteer for various causes, by the OSA, by reaching the information promptly to them through various media, namelysms, Facebook, Circulars read in classrooms, Posters displayed in prominent places and the likes. The number of volunteers has increased due to the efforts of OSA.

The students are empowered to conduct various Institutional-level events, namely Yugam, a techno-cultural inter-collegiate event, conducted every year. Yugam was started in the year 2013 as an Intra-collegiate event, and after OSA was established the event was converted into an Inter-collegiate event. The first edition of Yugam catered to our students, by way of conducting technical, literary and cultural competitions. The second edition of Yugam (Yugam 2014), was an inter-collegiate with 50 events attracting around 3000 participants, the third edition of Yugam (Yugam 2015) with 110 events attracted around 5000 participants and the fourth edition of Yugam (Yugam 2016) saw over 9500 participants with 130 events. This was due to the student-centric approach of the OSA. Some of other Institutional-level activities coordinated by OSA are, Engineering Immersion Boot Camp (EIBC), Orientation for Lateral Entry students and PG students, Hostel Admissions – Guidelines, Admission Strategy, and Management, Coordination of Clubs and Forums – Selection of Office Bearers, Activity Plan, Budgeting and Report Generation, Celebrations like Independence Day, Teachers Day, Engineers Day, Republic Day are all celebrated with enthusiasm and patriotism by our students through various clubs.

The students are encouraged to form various committees to have a significant say in the administration of the Institution, in the areas of Departmental Activities and Hostel Administration for example. Every academic department has an elected Departmental Association, which has a well-documented set of planned activities for the academic year. The Departmental Association executes these planned activities against a well thought out time-line and budget. The college hostel has around 3000 student residents and is represented by a hostel/mess committee of students. They meet regularly to discuss about the infrastructure needs, maintenance, mess functioning and the likes and the outcomes of these meetings are implemented in a time-bound manner. OSA spearhead these activities and closely work with the students to ensure equal say for all the concerned.

The No Helmet No Parking program which was mooted by the Road Safety Patrol club volunteers during the academic year 2014-15 made our campus a road safety compliant campus. All the students coming into our campus wear helmet/seat belts. The RSP club was

awarded as the Best Road Safety Patrol club by the Commissioner of Police, Coimbatore for their initiative.

The OSA is instrumental in creating a sense of ownership in the minds of the students, which creates belongingness and hence has created a paradigm shift amongst the students and enables them to aspire for their dreams.

6. Problems Encountered and Resources Required

Any new venture always has its teething problems. When OSA was started there were problems with collection of data from the students, communicating with the various departments on student related issues, encouraging students to join the clubs, and arriving at solutions, framing student friendly policies related to the various amenities inside the campus,in hostels, and ensuring smooth implementation through student committees. The Institution ensures that the grievances received from the students are redressed to the best of their satisfaction in a time-bound manner.

There were requirements for an office space from where it could operate and a good team to work out all activities of the OSA.

At present there is a strong team constantly working with the departments towards encouragement of students, helping those in need, holistic development and solving any issues if they arise.

7. Notes

A Facebook page life@kct was also started as an initiative to provide the students with a platform to exhibit their talent and views. The OSA is constantly striving towards achieving efficiency in all the focus areas to continuously improve the quality of student campus life at KCT.



KCT Facebook Page

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