

# The Annual Quality Assurance Report (AQAR) of the IQAC

## Part – A

### I.Details of the Institution

1.1 Name of the Institution

Kumaraguru college of Technology

1.2 Address Line 1

Chinnavedampatti Post

Address Line 2

-

City/Town

Coimbatore

State

Tamil Nadu

Pin Code

641 049

Institution e-mail address

1) info@kct.ac.in  
2) principal@kct.ac.in

Contact Nos.

1) 0422-2661100  
2) 0422-2661121

Name of the Head of the Institution:

Dr.R.S.Kumar

Tel. No. with STD Code:

0422-2661122

Mobile:

9487700830

Name of the IQAC Co-ordinator:

Prof.S.Bhaskar

Mobile:

9443578139

IQAC e-mail address:

bhaskar.s.mec@kct.ac.in

1.3 NAAC Track ID:

TNCOGN13763

1.4 NAAC Executive Committee No. &Date:

F.No.19.26/EC(SC-19)/DO/2016/7.2,dated  
2<sup>ed</sup> December 2016

1.5 Website address:

www.kct.ac.in

Web-link of the AQAR:

<http://www.kct.ac.in/wp-content/uploads/2015/10/AQAR-2016-17.pdf>

1.6 Accreditation Details: NAAC

Sl.No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	B	2.67	2009	5 Years
2	2 <sup>nd</sup> Cycle	A	3.21	2016	5 Years
3	3 <sup>rd</sup> Cycle	-	-	-	-
4	4 <sup>th</sup> Cycle	-	-	-	-

1.7 Date of Establishment of IQAC :

DD/MM/YYYY

09/06/2009

1.8 AQAR for the year

2016-2017

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

- i. AQAR2010-11 on 10.4.2012
- ii. AQAR 2011-2012 on 20.05.2013
- iii. AQAR 2012-2013 on 05.03.2014
- iv. AQAR 2013-2014 on 12.02.2015
- v. AQAR 2014-2015 on 05.04.2016
- vi. AQAR 2015-2016 on 22.10.2016

1.10 Institutional Status

University  State  Central  Deemed  Private

Affiliated College

Yes  No

Constituent College Yes  No

Autonomous college of UGC Yes  No

Regulatory Agency approved Institution AICTE Yes  No

Type of Institution Co-education  Men  Women

Urban  Rural  Tribal

Financial Status Grant-in-aid  UGC 2(f)  UGC 12B

Grant-in-aid +Self Financing  Self-financing

1.11 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI(Phys Edu)

TEI (Edu)  Engineering  Health Science  Management

Others(Specify)

1.12 Name of the Affiliating University

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence  UGC-CPE

DST Star Scheme  UGC-CE

UGC-Special Assistance Programme  DST-FIST

UGC-Innovative PG programmes  Any other (Specify)

UGC-COP Programmes

## 2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="16"/>		
2.2 No. of Administrative/Technical staff	<input type="text" value="3"/>		
2.3 No. of students	<input type="text" value="2"/>		
2.4 No. of Management representatives	<input type="text" value="1"/>		
2.5 No. of Alumni	<input type="text" value="1"/>		
2.6 No. of any other stakeholder and Community representatives	<input type="text" value="-"/>		
2.7 No. of Employers/ Industrialists	<input type="text" value="-"/>		
2.8 No. of other External Experts	<input type="text" value="-"/>		
2.9 Total No. of members	<input type="text" value="23"/>		
2.10 No. of IQAC meetings held	<input type="text" value="12"/>		
2.11 No. of meetings with various stakeholders:	No.	Faculty	<input type="text" value="2"/>
Non-Teaching Staff and Students	<input type="text" value="2"/>	Alumni	<input type="text" value="3"/>
		Others	<input type="text" value="2"/>
			<input type="text" value="--"/>
2.12 Has IQAC received any funding from UGC during the year?	Yes	<input type="text" value="-"/>	No <input checked="" type="checkbox"/>
If yes, mention the amount	<input type="text" value="-"/>		
2.13 Seminars and Conferences (only quality related)			
(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC			
Total No's.	<input type="text" value="25"/>	International	<input type="text" value="-"/>
		National	<input type="text" value="-"/>
		State	<input type="text" value="-"/>
		Institution Level	<input type="text" value="25"/>
(ii) Themes	<div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> <li>Awareness on NAAC accreditation</li> <li>Outcome based education</li> <li>Teaching pedagogy</li> <li>Quality of the question paper with revised Blooms taxonomy</li> </ul> </div>		

## 2.14 Significant Activities and contributions made by IQAC

- Developing systems and conducting training programs to meet accreditation requirements.
- Revamping the curriculum & syllabus to make students employable and also inculcate in them an interest for research.
- Incorporating some of the best practices being followed in reputed institutions.
- Encouraging faculty to publish paper in reputed Journals.
- Encouraging faculty to apply for funded projects.
- Setting up of Department of Academics (DOA) which takes care of planning, Execution and auditing of academic activities.
- CBCS (FCLF – Flexible and Comprehensive learning framework). UGC has come up with CBCs program in which students have a choice to choose from the prescribed courses, which are referred as core, elective or minor or soft skill courses and they can learn at their pace. The CBCS allows students an easy mode of mobility to various educational institutions spread across the world along with a facility of transfer of credits earned by the students.
- KCT worked on its own idea of implementing this CBCS system and has developed FCLF. The FCLF aims at being holistic, comprehensive and gives the students a broad exposure to various disciplines outside of their traditional domain. FCLF offers a cafeteria approach in which students can choose courses of their own choice.

## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality Enhancement and the outcome achieved by the end of the year \*

Plan of Action	Achievements
Student management system	Modified and upgraded
Purchase management system	Modified and upgraded
Alumni meeting India and abroad	Organised
Streamlining budgets	Modified and upgraded
Parking facilities	Upgraded
Revamping of UG curriculum and syllabus	completed
Revamping of PG curriculum and syllabus	Process Started
Introduction of FCLF	completed
New features in Regulation 17(R17)	completed
New reforms in assessment methods	Introduced

2.16 Whether the AQAR was placed in statutory body Yes

Management State

any other

-

-

Provide the details of the action taken:

Results	: Measures have been taken to improve the results by identifying weak learners and conducting special classes after regular college hours. This produced good results
Interactions with industry	: drastic changes in curriculum & syllabus by updating them to produce employable engineers : Centres of excellence were setup in association with industries and many one credit courses are handled by industry people.
Improvement in research publications	: Steps have been taken to improve the scientific publications in reputed journals

**Part – B**  
**Criterion – I**

**I. Curricular Aspects**

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	10	-	10	-
PG	<b>14</b>	-	14	-
UG	13	-	13	-
PG Diploma	-	-	-	-
AdvancedDiploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
<b>Total</b>	37	-	37	-
Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	27 (UG & PG)
Trimester	-
Annual	-



1.3 Feedback from stakeholders\*Alumni

Parents

EmployersStudents



Mode of feedback:Online

ManualCo-operating schools (for PEI)

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Kumaraguru college of Technology envisions to nurture knowledge skills and attitude and values of the aspiring youth, to enable them to become global citizens and towards the process the institution has evolved a flexible integrated academic curriculum. KCT introduced OBE in 2014 and CBCS in 2015, which emphasised on honing the skills and the knowledge of the graduates.

KCT embarked on ambitious project in Dec 2016 to develop a new academic regulation curriculum frame work and syllabi of its UG program. This effort was undertaken to address the present challenges in education system and also to be ahead of the curve with respect to innovative practices. The guiding principle was to be man making and nation building. Towards the above purposes a think tank comprising of nine faculty were put together to exclusively work on identifying and addressing the challenges.

The team of extensive deliberations, debate and analysis presented the suggestions, prepare the regulation 2017(R17). The regulation includes pedagogy changes leading to learner centric academic ecosystem and a flexible curricular frame work.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

No



## Criterion – II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
387	295	46	44	368

2.2 No. of permanent faculty with Ph.D.

117
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2.3 No. of Faculty Positions Recruited (R) and Vacant(V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
36	2	5	20	5	--	41	--	46	22

2.4 No. of Guest and Visiting faculty and Temporary faculty

4		
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	75	44	16
Presented papers	271	107	2
Resource Persons	11	11	15

2.6 Innovative processes adopted by the institution in Teaching and Learning:

On-line test, group presentation, opens book test, MOOC / NPTEL courses, activity based teaching methods
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2.7 Total No. of actual teaching days

180
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During this academic year

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Photo copy of answer booklets, online multiple choice questions, group presentation, Dummy number based evaluation for internal and end semester examinations, OMR based result processing and online objective type assignment, test.
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2.9 No. of faculty members involved in curriculum Restructuring/revision/syllabus development

250	174	120
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As member of Board of Study/Faculty/Curriculum Development workshop

2.10 Average percentage of attendance of students

94
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2.11 Course/Programme wise Distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.E. CIVIL ENGINEERING	135	17.89	69.11	13.01	-	91.11
B.E. AERONAUTICAL ENGINEERING	64	19.23	76.92	3.85	-	81.25
B.E. MECHANICAL ENGINEERING	211	12.77	84.57	2.66	-	89.10
B.E. MECHATRONICS ENGINEERING	62	5.66	73.58	20.75	-	85.48
B.E. ELECTRICAL AND ELECTRONICS ENGINEERING	139	28.57	70.68	0.75	-	95.68
B.E. ELECTRONICS AND INSTRUMENTATION ENGINEERING	69	16.67	74.24	9.09	-	95.65
B.E. ELECTRONICS AND COMMUNICATION ENGINEERING	203	14.67	66.85	18.48	-	90.64
B.E. COMPUTER SCIENCE AND ENGINEERING	134	7.38	75.41	17.21	-	91.04
B.E. AUTOMOBILE ENGINEERING	71	11.29	80.65	8.06	-	87.32
B.TECH. INFORMATION TECHNOLOGY	59	7.14	76.79	16.07	-	94.92
B.TECH. TEXTILE TECHNOLOGY	66	11.76	76.47	11.76	-	77.27
B.TECH. FASHION TECHNOLOGY	53	10.87	86.96	2.17	-	86.79
B.TECH. BIO TECHNOLOGY	59	15.52	82.76	1.72	-	98.31

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
M.E. STRUCTURAL ENGINEERING	17	23.53	76.47	-	-	100
M.E. CAD / CAM	8	50.00	50.00	-	-	100
M.E. ENERGY ENGINEERING	8	25.00	75.00	-	-	100
M.E. INDUSTRIAL ENGINEERING	11	27.27	72.73	-	-	100
M.E. POWER ELECTRONICS ENGINEERING	13	38.46	61.54	-	-	100
M.E. EMBEDDED SYSTEMS	13	53.85	46.15	-	-	100
M.E. APPLIED ELECTRONICS	11	27.27	72.73	-	-	100
M.E. COMMUNICATION SYSTEMS	14	15.38	84.62	-	-	92.86
M.E. COMPUTER SCIENCE AND ENGINEERING	19	11.76	88.24	-	-	89.47
M.TECH. BIO TECHNOLOGY	7	16.67	83.33	-	-	85.71
MASTER OF COMPUTER APPLICATIONS	134	6.86	91.18	1.96	-	76.12
MASTER OF BUSINESS ADMINISTRATION	174	0.63	94.38	5	-	91.95

## 2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

The IQAC monitor the academic process. Regular auditing of the classes handled by faculty, the class notes and the laboratory classes are monitored at random without giving any prior intimation. Similarly the question paper set by the faculty and also the valued answer books are audited. Apart from these, the mentor mentee meeting, class committee meetings and result analysis meeting conducted after every internal test are also monitored by audit cell

## 2.13 Initiatives undertaken towards faculty development:

<i>Faculty / Staff Development Programs</i>	<i>Number of faculty benefitted</i>
Refresher courses	35
UGC – Faculty Improvement Program	41
HRD programs	25
Orientation programs	13
Faculty exchange program	16
Staff training conducted by the university	90
Staff training conducted by other institutions	78
Summer / Winter schools, Workshops, etc.	19
Others	59

## 2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	210	-	-	-
Technical Staff	151	-	-	-

## Criterion – III

### 3. Research, Consultancy and Extension

#### 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

Faculty members are motivated to carry out research which is of societal importance. The research findings are periodically published in national and international journals for which incentives are given to the faculty members. Faculty members receiving external research grant are appreciated by giving best faculty during award functions. Research contributions by the faculty members are duly considered while awarding promotions. Student Research Cell – “Re “is initiated to promote student research Management Funded projects are encouraged among faculty. Encouraging UG and PG students to undertake result oriented research for industry and society; Publish quality papers in refereed journals with high impact factor Best project awards are given to UG and PG students for their project work. As a token of appreciation (Rs.500/-) has been given to deserving students projects at the end of the final year. The institution Faculty are encouraged to enrol for PhD programs with stipend from management; Research oriented seminars and conferences are organized by the departments. Inter departmental research promoted. Industry sponsored research labs, Centres of Excellence and project labs are set up in the college to promote research. Project presentations are being done by students to get awards in inter collegiate programs, national level programs and in international conferences. The management supports by means of KCT Management Projects, Patent Cell, Research Work group etc. where funding and programs are conducted regularly. Financial assistance is given by the KCT Management for in house projects up to Rs.1.50 lakhs. Student Research cell Re’ has been initiated and funding is given to student teams for research work ; this has lead to presentation of their work in leading institutions like IIT, SDC etc. and also for patenting any new products or processes developed by the students. Distinguished alumni as well as senior students from other departments are also present in the panel that evaluates the presentation by the students with regard to their research proposals. A cell for filing patents is also being initiated by the institution to help in the patenting process of the research teams of students and faculty. Assistance is given by the patent cell right from filing of patent, publishing in journal, granting of the patent and commercialising the patent. Inter departmental research as well as research teams constituting of II year, III year and IV year students help to nurture research in the institution. The Management of the Institution has also helped faculty to publish high quality papers in good journals indexed in Scopus, Web of Science and Indian Citation Index. Drive to create awareness to publish high quality papers in journals and patent new products is achieved by conducting workshops, national and international conferences, MOUs with research organizations.

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	3	6	4	35
Outlay in Rs. Lakhs	24.9	92.3	53.3	616.27

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	4	6	16	19
Outlay in Rs. Lakhs	1.01	6.13	22.73	17.63

### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	159	27	--
Non-Peer Review Journals	13	32	--
e-Journals	10	17	--
Conference proceedings	148	22	--

### 3.5 Details on Impact factor of publications:

Range  Average  h-index  Nos. in SCOPUS

### 3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned Rs.	Received Rs.
Major projects	3	DST and DBT	39.4	9.9
	2	UGC	2.4	2.4
	1	Government of India, Ministry of Science and Technology	15.65	15.65
	2	DST	23.75	Yes
	2	DST	15.65	9.0
	2	DST	23.75	16.40
Minor Projects	1	TNSCST	0.2	0.2
	1	KCT	2.3	
	June 2016	University Grants Commission Project	4.6	
	1	In house(KCT)	2.5	Yes
	1	TNSCST	0.1	0.1
	1	TNSCST	0.1	0.1
	1	TEXAS	0.1	0.1
	2	KCT Management	1.03	0.40
	2	UGC minor project	2.62	nil
	1	DST	25.93	
Interdisciplinary Projects	01	Fits Industry	0.25	Components
	1	IEEE foundation Program	11.80	9.00
	1	KCT Management Re'	0.23	0.23
	1	IEEE Foundation	11.5	9
	1	KCT Management Re'	0.14	0.065
	01	Fits Industry	0.25	Components
Industry sponsored	1	KCT	5	5
	1	KCT	4.54	4.54
	1	KCT	3.5	
	10 months	KCT Management	0.75	

Projects sponsored by the University/ College	24 months	KCT Management	0.4	
	24 months	KCT Management	1.15	
	24 months	KCT Management	0.75	
	12 months	KCT Management	4.2	
	24months	KCT Management	0.5	
	18months	KCT Management	1.13	
	24months	KCT Management	1.7	
	18-24months	KCT Management	11.88	Ongoing
	1	KCT,Management	2.8	
	1	KCT,Management	1.06	
	1	KCT,Management	0.7	
	2	Management funded	1.55	0.58
	3	KCT mgmt.	3	
Students research projects <i>(other than compulsory by the University)</i>	1	Sakthi Finance Limited	0.8	0.2
		Tiffany's	1.23	0.5
		The Chennai Silks	1.2	0.35
		SAF Organic	0.15	0.075
	3	KCT Management	0.37	0.37
1	KCT Re	0.4	0.4	
	10 months	TNSCST	0.1	0.1
	10 months	TNSCST	0.1	0.1
	2yrs	KCT Re	2.86	Ongoing
	1	KCT Management	0.26	
	1	KCT Management	0.25	
	1	KCT Management	0.62	
	1	KCT Management	0.95	
	1	KCT Management	0.22	
Any other(Specify)	1	IEEE project possibility	2.70	2.70
Total				

3.7 No. of books published i) With ISBN No.  Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP	-	CAS	-	DST-FIST	-
DPE	-			DBT Scheme/funds	-

3.9 For colleges	Autonomy	-	CPE	DBT	-	cheme	-
INSPIRE	CE	-	ther (specify)	-			-

3.10 Revenue generated through consultancy

3.11 No. of conferences

Organized by the Institution

Level	International	National	State	University	College
Number	-	4	5	1	7
Sponsoring agencies	-	IEEE, KCT, etc.,			

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International  National  Abroad

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in Lakhs:

From funding agency  of University/College   
 Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	11
	Granted	-
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

3.17 No. of research awards/ recognitions received by faculty and research fellows Of the institute in the year

Total	International	National	State	University	Dist	College
29	--	10	1	-	-	18

3.18 No. of faculty from the Institution who are Ph.D. Guides and students registered under them

48
74

3.19 No. of Ph.D. awarded by faculty from the Institution

17
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3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF	4	SRF	-	Project Fellows	-	Any other	-
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3.21 No. of students Participated in NSS events:

	University level	200		-
National level	International level	-		-

3.22 No. of students participated in NCC events:

	University level	84		22
National level	International level	17		--

3.23 No. of Awards won in NSS:

	University level	-	State level	-
National level	International level	-		-

3.24 No. of Awards won in NCC:

	University level	7	State level	2
National level	International level	6		-

3.25 No. of Extension activities organized

University forum	College for	-	-
NCC	NSS	Any other	
1	35		4



### 3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- Nowadays the necessity of computers is very high and a condition has come that without computer people cannot survive.
- This awareness about computers has to be inculcated into the minds of the students even from their young age. With this in mind the students of KCT arranged a computer training program for the school children at Pothiyampalayam on 6/9/2016.
- On 2/10/16, an ortho awareness camp was organized by the students of the KCT for the benefit of nearby villages which lacked a proper awareness about Arthritis etc., this was done with the help of professional Doctors from nearby hospitals. The check up was completely free and patients were advised what to eat and what not to eat. About 60 people were benefited at this camp.
- On 8/11/16 a free diabetics and free eye-camp were organized
- On 29/1/17 a camp on digital was conducted to create awareness to people about the use of smart phones and how to transfer money through net banking.

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	150.075 acres			150.075 acres
Class rooms	10294.19 m <sup>2</sup>			10294.19 m <sup>2</sup>
Laboratories	17886.48 m <sup>2</sup>			17886.48 m <sup>2</sup>
Seminar Halls	1681.4 m <sup>2</sup>			1681.4 m <sup>2</sup>
No. of important equipment purchased (≥ 1-0 lakh) during the current year.	60		Management	60
Value of the equipment purchased during the year (Rs. in Lakhs)	29894446		Management	
Others				

#### 4.2 Computerization of administration and library

- |  |
|--|
| <ul style="list-style-type: none"> <li>Library web page is revamped</li> <li>Android APP for library OPAC</li> <li>NPTEL course on online</li> <li>Management Information System (MIS) to manage teaching, learning, students details, academic performance of the students and staff details</li> </ul> |
|--|

#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	104726	30758066	209	83188.33	107332	39874081
Reference Books	2392	9031917	--	--	2392	9031917
e-Books	601	197,174	--	--	601	197,174
Journals	182	395880	--	--	182	395880
e-Journals	8961	2914444	--	--	8961	2914444
Digital Database	1	297589	--	--	1	297589
CD & Video	7533	57079	--	--	7533	57079
Others (specify)	--	--	--	--	--	--

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	-	-	-	-	-	-	-	-
Added	-	-	-	-	-	-	-	-
Total	2288	1385	-	423	-	166	241	73

#### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology up gradation (Networking, e-Governance etc.)

ICT facility for all computers

#### 4.6 Amount spent on maintenance in Lakhs:

i) ICT	16.3L
ii) Campus Infrastructure and facilities	208.85 L
iii) Equipment	60.09L
iv) Others	99.18L
<b>Total :</b>	<b>384.45L</b>

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

The students and the parents are made aware of various support services offered by the institution on the first day they come to campus to a program SWAGATHAM

#### 5.2 Efforts made by the institution for tracking the progression

Continuous progression in sports related activities, club event, students forums are tracked by respective faculty coordinators.

The progression with respect to the interaction of resident tutors and hostel students is tracked by student counsellor and deputy chief warden

Mentors track student attendance, leave and on duty applied by the students, marks of their mentees through ERP system.

Parents can get their wards internal and semester results through SMS.

The student record is maintained by concerned class teacher in each and every department.

#### 5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
5147	832	44	-

#### (b) No. of students outside the state

-

#### (c) No. of international students

-

No	%
3975	66

No	%
2048	34

MenWomen

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
425	60	32	496	6	6023	482	49	25	484	5	5926
	5		1				1		4		

Demand ratio    Dropout %

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

For student competitive examinations, various activities are planned in department level and college level. In department level, technical coaching is provided to the students those who are appearing in GATE, NIFT, MAT, TANCET, UPSC and TNPSC examinations by well experienced faculties. The placement hour is provided in the class time table which will be managed by specially trained people in different areas like aptitude and verbal reasoning which is coordinated by programme management office of Kumaraguru College of Technology.

No. of students beneficiaries

Many

5.5 No. of students qualified in these examinations

NET	-	JLET GATE	-	MAT	27	7
IAS/IPS etc	1	State PSC	-	C Others	-	23

5.6 Details of student counselling and career guidance

- 1.) The Career Guidance Cell of the department keeps track of the student progression and helps for their skill development and corporate placement.
- 2.) Mentoring System: Student Mentees choose their Faculty Mentors. Student Faculty Mentors provide individual care for their student mentees on academics and professional growth.
- 3.) Buddy Mentoring System: In addition to Faculty Mentoring, senior students assist the freshmen in academics, skill development and campus life.
- 4.) The students are provided with orientation session on the courses and their potential career opportunities, to support deciding their elective courses.
- 5.) Placement Orientation is provided for the Parents and Students before the start of the second year.
- 6.) Corporate Relations Cell regularly meets the students to provide customized support for improvement of successful placement offers.

No. of students benefitted

Many

### 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
170	970	742	14

### 5.8 Details of gender sensitization programmes

<p>Women's day celebration</p> <p>Sessions on health and life style choices are provided during fresher learning and</p>
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### 5.9 Students Activities

#### 5.9.1 No. of students participated in Sports, Games and other events

State/ University level	National level	International level
113	7	3

#### No. of students participated in cultural events

State/ University level	National level	International level
107	78	--

#### 5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level	National level	International level
96	7	-

Cultural: State/ University level	National level	International level
21	3	-

### 5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	668	87.46L
Financial support from government	1291	2.69C
Financial support from other sources	1	.6L
Number of students who received International/ National recognitions	3	1.5L and USD1500

5.11 Student organised / initiatives

Fairs : State/ University level  National level  International level

Exhibition: State/ University level  National level  International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: No Major Grievances

## Criterion – VI

### **6. Governance, Leadership and Management**

#### 6.1 State the Vision and Mission of the institution

**Vision:**

The vision of the college is to become a technological university of informational standards through continuous improvements.

**Mission:**

Kumaraguru college of Technology 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.

#### 6.2 Does the Institution has a management Information System

Yes

#### 6.3 Quality improvement strategies adopted by the institution for each of the following:

##### 6.3.1 Curriculum Development

- The CBCS based curriculum regulation R17 was framed and adopted which incorporates latest features.
- New management electives were introduced.
- Many industry relevant one credit and three credit courses were offered by industries.
- Two International one credit courses were conducted for R14 regulation students by ARA Institute by Canterbury, New Zealand and California State University.
- All stake holders like academicians, expert from industries, alumni. Parents, employers and students were involved while framing the syllabus

##### 6.3.2 Teaching and Learning

- Google classroom are used to share the study materials, upload assignments and presentations, create announcements, conduct quiz and upload project reports.
- MOOC Classes
- Virtual lab
- Flipped class rooms
- Encouraging student to make working models
- Internship along with industry projects
- Training on OBE by IQAC
- KLDA – pedagogy and innovative teaching methods



### 6.3.3 Examination and Evaluation

- Continuous assessment tests
- Online assignment, test conducted using class marker.org
- 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.
- 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.
- Implementation of good remunerative package for examiners compared to other autonomous Institutions.
- In our incessant efforts to improve on the institute – parent interaction, we have introduced a system called CARE 360 to monitor student performance semester wise (Complete Academic Review for Enhancement) students' performance in end semester examination, extracurricular and co-curricular activities report
- 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.

#### 6.3.4 Research and Development

- KCT management funded projects Re, IPR Cell etc.,
- Fund included in department budget
- Management funded research projects are undergoing – RUTAG, TNAU projects
- IEEE funded projects for “smart agriculture for sustainable food production and \$18256 was granted
- Central committee for monitoring research
  
- Project committee members for evaluating research to be approved by the Principal
- Best of three reviews for monitoring the quality of the projects
- Evaluation by internal and external committee members before sanctioning the projects for faculty and students
- Best project awards for each batch; best 10 projects receive cash awards
- Paper publication must for PG courses, in quality journals.
- Monetary help from the management for the candidates doing doctoral research.
- On duty for doing research and for presenting in international conferences
- Monetary help for presentation in conferences (registration fee & travel expenses), publishing papers in journals.
- Experts from other Universities and Colleges, other countries are invited for special lectures to motivate the research scholars and to make them understand the research undertaken in other peer Colleges and Universities.
- Workshops and guest lectures on research, publications, patenting etc. are being conducted frequently to update the knowledge of the students and faculty.

#### 6.3.5 Library, ICT and physical infrastructure / instrumentation

All faculty are provided with individual computers with internet facility

#### 6.3.6 Human Resource Management

As per HR policy

#### 6.3.7 Faculty and Staff recruitment

As per Anna university norms

### 6.3.8 Industry Interaction / Collaboration

TNIUs involved in workshop and smart city initiatives  
DEWATS involved in recycling waste water  
MoU with YOKOGAWA  
BOSCH centre  
One credit courses were conducted with companies like ZOHO , KOTAMARAN Technologies, SBNA Technologies  
IOT – Intel Lab  
Senthil Papayan Enzymes  
NDE with BIS  
EMC<sup>2</sup> Data Centre  
PLC with e-Yantra  
TEXAS Instruments  
Cameroon  
ACE Machine Tools, Rajkot  
75% of the final year students are going for Internships  
Consultancy project titled ‘Invoice and Inventory Management System’ was done for Arul Steels, Coimbatore worth Rs.50,000.  
22 students placed in product companies like HP, Capgemini, TechMahindra, Robert Bosch, GoFrugal.  
38 students placed in service companies like Accenture, Wipro, CTS, Newgen.  
One credit courses were conducted with companies like Zoho, Kotamaran Technologies, SBNA Technologies.

### 6.3.9 Admission of Students

As per Anna university norms

### 6.4 Welfare schemes for

Teaching	OD for PHD, attending programs, Incentives after completion, medical insurance
Non teaching	Medical insurance
Students	Medical Insurance

### 6.5 Total corpus fund generated

1212 Lakhs

### 6.6 Whether annual financial audit has been done Yes

No

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	ISO	Yes	IQAC-CEFD
Administrative	Yes	AU	Yes	From other departments

6.8 Does the University/ Autonomous College declare results within 30 days?

For UG Programmes      Yes  No

For PG Programmes      Yes  No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

Exam systems has been changed – Internal assessment method, question paper setting with Bloom’s taxonomy, dummy numbering system, Barcoding of marks, On-line result publications. The option for re-earning CAM option is offered for R15 batch students

1. Introduction of supplementary examinations from the academic year 2014-2015 onwards
2. Implemented online student attendance and mark entry in MIS software successfully.
3. Effective utilization of Google drive e mail / sms for examination related assignments to the internal and external examiner ship.
4. Printing and distribution of end semester and consolidated statement of grade sheets in non-tearable sheets with six security features including student photograph.
5. In our incessant efforts to improve on the institute – parent interaction, we have introduced a CARE 360° semester wise (Complete Academic Review for Enhancement) students’ performance in end semester examination, extracurricular and co-curricular activities report from 2015-16 onwards.
6. Students internal test mark, CAM mark, examination seating arrangements and end semester examinations result are published in student’s corner in KCT website.
7. Online payment of exam fees
8. Student can view revaluation answer script through online (ERP)

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

- Outcome Based Education and CBCS are developed as per university suggestions.
  - University supports the autonomous status of the college.
  - University sends representatives for various meeting of the college.
  - University monitors the passing board meetings, question papers and results.
- University ensures quality in teaching learning evaluation and research

### 6.11 Activities and support from the Alumni Association

Members in BOS and DAB
Members in interview panel and mock interviews
Resource person for guest lectures and workshop
Industrial trainings given

### 6.12 Activities and support from the Parent – Teacher Association

#### Parents Feedback

S.No	Suggestions made by parents	Action Taken
1.	Training for placement to be given during every semester.	Registration for students interested in placement for the year 2018 has been started and regular classes for soft skills development are also being conducted.
2.	Industrial oriented courses/ skills could be given.	One credit industry course has been included as part of curriculum, also guest lectures has been provided frequently.
3.	Lab oriented mini projects could be given.	Mini project as an assignment has been included in the curriculum.
4.	To help in getting internships for companies.	Wherever possible, suitable guidance has been provided by the faculties to the students.
5.	GATE coaching classes to be arranged.	Regular classes are conducted.
6.	Motivate students to pursue PG in abroad.	International partnership cell has been established to give proper guidance to students.

### 6.13 Development programmes for support staff

Many programs are conducted. Few are listed below: Aari Embroidery Workshop Advance Lectra CAD software Modules – Modaries 2D, 3D Diamino. STTP on Digital Fashion Design and Interactive Portfolio. One day Warli Antique Art workshop Digital Fashion Design workshop Artist in ME (AIM) workshop. Effective English for Every day.
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### 6.14 Initiatives taken by the institution to make the campus eco-friendly

Paperless environment, RO-Water purification, Green campus
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## Criterion – VII

### 7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Innovations in teaching and learning – regulation 2015 for UG & PG – Choice Based Credit System (CBCS), one credit and self study courses.
- Examination systems- examination question paper pattern and evaluation for internal tests and end semester examinations
- International collaborative efforts for student internship and projects, conducting International conferences
- Students Research Cell funding to students research proposals to cultivate research culture amongst students
- Establishing Centre of Excellence for Research and Development
- Acquisition of infrastructure and equipment through research projects
- Consultancy and outreach programs undertaken by departments
- Students can choose courses and faculty of their choice.
- Bio metric attendance for students was introduced.
- Telegram groups created for communication between faculty and students
- Google classroom and Schoology are used to share the study materials, upload assignments and presentations, create announcements, conduct quiz and upload project reports.
- Existing ERP modified to include Mentor-Mentee meeting, Parents meeting, OD and Leave Approval, Retest Approval, viewing student profile, faculty timetable, lesson plan
- New industry elective courses were added in the curriculum.
- Industry based one credit courses were conducted.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the Beginning of the year

Plan of Action	Achievement
<ul style="list-style-type: none"><li>• Establishment of Department of Academics to care of all process connected with academics.</li><li>• Introduction of FCLF Courses.</li><li>• Revamping of UG &amp; PG Syllabus.</li></ul>	<ul style="list-style-type: none"><li>• Stressing more roles for mentors.</li><li>• International Credit Transfer.</li><li>• NGO Committees ACC, DCC &amp; DEC introduced.</li><li>• Introduced vital activity credits.</li><li>• FCLF gives students abroad exposure to various disciplines outside the traditional domain.</li></ul>

7.3 Give two Best Practices of the institution

- Activity based Teaching Learning and OBE
- Existing ERP modified to include Mentor-Mentee meeting, Parents meeting, OD and Leave Approval, Retest Approval, viewing student profile, faculty timetable, lesson plan

7.4 Contribution to environmental awareness / protection

- Service camp conducted for faculty for control emission.
- Solar PV design and installation done.
- Environmental studies involved in the curriculum,

7.5 Whether environmental audit was conducted? Yes  No

7.6 Any other relevant information the institution wishes to add. (For example SWOT Analysis)

- National & International Conferences are conducted regularly by all the departments
- Faculty are encouraged to attend conference conducted outside by reputed institutions and payments are reimbursed
- Faculty are given sufficient encouragement to publish papers in reputed journals
- Best faculty award are given every year
- Many programs are conducted for the benefit of stress relieving and to improve their soft skills
- Competent faculty are given promotions and increments
- Regarding the weakness, many students from rural areas are joining and their communication skill in English is very poor & hence special coaching in English have to be given

## **8.Plans of institution for next year**

- To completely revamp the curriculum and syllabus for UG/PG
- Interactions with reputed industries & institutions, both national & international for academic and research activities

Name \_\_\_\_\_

Name \_\_\_\_\_

\_\_\_\_\_  
Signature of the Coordinator, IQAC

\_\_\_\_\_  
Signature of the Chairperson, IQAC

## Annexure I

### Abbreviations:

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
FCLF	-	Flexible and Comprehensive Learning Framework
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission