

**Annual Quality Assurance Report (AQAR)**  
**of the IQAC of**  
**KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY**



**राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्**

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

*An Autonomous Institution of the University Grants Commission*  
P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore - 560 072 India

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

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)

### Part – A

AQAR for the year (for example 2013-14)

2016 - 17

#### I. Details of the Institution

1.1 Name of the Institution

Kamaraj College of Engineering and Technology

1.2 Address Line 1

S.P.G. Chidambara Nadar – C. Nagammal Campus

Address Line 2

S. P. G. C. Nagar

City/Town

K. Vellakulam

State

TAMILNADU

Pin Code

625701

Institution e-mail address

mail@kamarajengg.edu.in

Contact Nos.

+91 4549 278171

Name of the Head of the Institution:

Dr. Anant Achary

Tel. No. with STD Code:

+91 4549 278171, 278791

Mobile:

Name of the IQAC Co-ordinator:

Mobile:

IQAC e-mail address:

1.3 NAAC Track ID (For ex. MHCOGN 18879)

**OR**

1.4 NAAC Executive Committee No. & Date:   
(For Example EC/32/A&A/143 dated 3-5-2004.  
This EC no. is available in the right corner- bottom  
of your institution's Accreditation Certificate)

1.5 Website address:

Web-link of the AQAR:

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

#### 1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	3.03	2015	5 years
2	2 <sup>nd</sup> Cycle				
3	3 <sup>rd</sup> Cycle				
4	4 <sup>th</sup> Cycle				

1.7 Date of Establishment of IQAC : DD/MM/YYYY

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

- i. AQAR 2015 – 16 Submitted to NAAC on 06-09-16
- ii. AQAR \_\_\_\_\_ (DD/MM/YYYY)
- iii. AQAR \_\_\_\_\_ (DD/MM/YYYY)
- iv. AQAR \_\_\_\_\_ (DD/MM/YYYY)

1.9 Institutional Status

University                      State  Central  Deeme  Private

Affiliated College              Yes  No

Constituent College            Yes  No

Autonomous college of UGC Yes  No

Regulatory Agency approved Institution Yes  AICTE  No

(eg. AICTE, BCI, MCI, PCI, NCI)

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  Totally Self-financing

1.10 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (Phys Edu)

TEI (Edu)  Engineering  Health Science  Management

Others (Specify)

1.11 Name of the Affiliating University (for the Colleges)

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

Autonomy by State/Central Govt. / University	<input type="text" value="-"/>	
University with Potential for Excellence	<input type="text" value="-"/>	UGC-CPE <input type="text" value="-"/>
DST Star Scheme	<input type="text" value="-"/>	UGC-CE <input type="text" value="-"/>
UGC-Special Assistance Programme	<input type="text" value="-"/>	DST-FIST <input type="text" value="-"/>
UGC-Innovative PG programmes	<input type="text" value="-"/>	Any other ( <i>Specify</i> ) <input type="text" value="-"/>
UGC-COP Programmes	<input type="text" value="-"/>	

## **2. IQAC Composition and Activities**

2.1 No. of Teachers	<input type="text" value="9"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="4"/>
2.3 No. of students	<input type="text" value="2"/>
2.4 No. of Management representatives	<input type="text" value="2"/>
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"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="2"/>
2.8 No. of other External Experts	<input type="text" value="-"/>
2.9 Total No. of members	<input type="text" value="22"/>
2.10 No. of IQAC meetings held	4

2.11 No. of meetings with various stakeholders No.  Faculty   
 Non-Teaching Staff  Students  Alumni  Others

2.12 Has IQAC received any funding from UGC during the year? Yes  No   
 If yes, mention the amount

2.13 Seminars and Conferences (only quality related) - 1

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.  International  National  State  Institution Level

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

1. Evaluation of existing teaching learning systems and documents
2. Revision of assessment tools incorporating pedagogy approach and outcome evaluation
3. Renewal and revision of feedback forms to elicit opinion from different stake holders
4. Action plan for enhancing quality of student projects (outcome based approach)

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	Outcomes Achieved
NBA Accreditation	Three departments EEE, BT and MECH uploaded the SAR and expert committee visit completed.
Cocurricular Activities	Number of value added courses/workshops/symposium organised and offered for the students.
Improve Communication and Presentation skills	Conduct of Soft skill development programmes, communication skill development programmes.
Monitoring of Teaching Learning process	Academic Audit at the end of academic year.

\* *The Academic Calendar in Annexure IV*

2.15 Whether the AQAR was placed in statutory body      Yes  No   
Management       Syndicate  Any other body

Provide the details of the action taken

All necessary actions have been initiated and were communicated to the respective stakeholders after the Management Meeting. The follow-up and actions were ensured periodically through the HODs meetings and other department level meetings.

## 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	7		7	-
PG	6	-	6	-
UG	10	-	10	23
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
<b>Total</b>	23		23	23

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	16
Trimester	-
Annual	-

1.3 Feedback from stakeholders\* Alumni  Parents  Employers  Students   
(On all aspects)

Mode of feedback : Online  Manual  Co-operating schools (for PEI)

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

Our college is an affiliated institution. Currently R2013 of Anna University is being followed

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
262	217	26	17	2

2.2 No. of permanent faculty with Ph.D.

45

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
23	-	1	11	2	5			26	16

2.4 No. of Guest and Visiting faculty and Temporary faculty

3

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	31	32	4
Presented papers	65	77	-
Resource Persons	4	23	18

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

1. As a part of Innovation in Teaching Learning Process, introduction of Wi-Fi in all academic areas and conducting webinar with leading institutes have been done.
2. The college has a set of e-learning resources for enhancing the self-learning among the students. NPTEL videos and EDUSAT lecture videos are available in the Digital Library.
3. Course specific assignments or worksheets to promote self learning
4. Mapping of Course outcomes versus programme Outcomes

2.7 Total No. of actual teaching days during this academic year

180

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

1. Cycle test conducted at regular time interval and common to all programmes
2. The question paper setting for the internal tests are done at different cognitive levels of Bloom's Taxonomy

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development

7

as member of Board of Study/Faculty/Curriculum Development workshop

2.10 Average percentage of attendance of students

98

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>UG Courses</b>						
BE CSE	110	-	71.87	15.45	-	87.26
BE ECE	128	1.56	78.9	12.5	-	92.96
BE EEE	136	1.47	60.29	26.47	-	88.23
B.E EIE	49	-	55.10	34.89	-	89.79
BE MECH	140	0.7	75.71	17.14	-	93.57
BE CIVIL	136	1.47	58.82	24.26	-	84.55
B Tech IT	47	-	82.97	8.51	-	91.48
BTech PT	42	2.38	59.52	11.90	-	<b>73.8</b>
BTech BT	56	3.57	92.86	1.78	-	98.21
<b>PG Courses</b>						
M Tech BT	5	40.0	60.0	-	-	100
M Tech PT	1	-	100	-	-	100
ME SE	16	31.25	56.25			87.5
ME PSE	5	40	60			100
ME Manufacturing Engineering	3	33.3	66.67			100
ME CN	5	20	80	-	-	100

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

- Monitoring of course file, lecture Schedule, course plan by random sampling
- Verification of cycle test analysis, question paper scrutiny
- Analysis of feedback by students, Alumni, parents and employers

- Feedback Analysis of value Added programmes
- The academic growth of all the students is being monitored on a regular basis by the individual departments. The weak students are identified and counseled. They are given extra coaching based on their requirement. This involves the individual faculty, respective HODs and the Principal at the levels required appropriately.

#### 2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	2
UGC – Faculty Improvement Programme	-
HRD programmes	-
Orientation programmes	14
Faculty exchange programme	-
Staff training conducted by the university	-
Staff training conducted by other institutions	28
Workshops	166
Others (FDP, Seminar)	115

#### 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	28	-	-	-
Technical Staff	53	-	-	-

## Criterion – III

### 3. Research, Consultancy and Extension

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

1. Research and Development Cell assesses the progress of research work carried out by the staff members, to scrutinize the project proposals sent to funding agencies and to provide an atmosphere conducive for research.
2. On Duty to attend seminars, conferences (National, International)
3. On Duty for research fellowship of IIT, IAS, TNSCST, INSA, NASI.
4. Encouraged faculty members to visit national labs and industries

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	10	-	-	8
Outlay in Rs. Lakhs	184.59	-	-	

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	16	-	7	-
Outlay in Rs. Lakhs	1.57	-	-	-

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	49	-	-
Non-Peer Review Journals	6	-	-
e-Journals	11	-	-
Conference proceedings	6	1	25

#### 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	Received
Major projects	-	-	-	-
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-

Projects sponsored by the University/ College	-	-	-	-
Students research projects <i>(other than compulsory by the University)</i>				
Any other(Specify)	-	-	-	-
Total		-	-	-

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

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from- **NA**

UGC-SAP  CAS  DST-FIST

DPE  DBT Scheme/funds

3.9 For colleges Autonomy  CPE  DBT Star Scheme

INSPIRE  CE  Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	-	6	-	-	-
Sponsoring agencies	-	CSIR	-	-	-

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

3.13 No. of collaborations International  National  Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From Funding agency  From Management of College

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	1
	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
7	-	7	-	-	-	-

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

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

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

JRF  SRF  Project Fellows  Any other

3.21 No. of students Participated in NSS events:

University level  State level   
 National level  International level

3.22 No. of students participated in NCC events:

University level  State level   
 National level  International level

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  State level   
National level  International level

3.25 No. of Extension activities organized

University forum  College forum   
NCC  NSS  Any other

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

1. Received “Golden Zone Award” from IAB ( Indian Association of Blind)
2. Removal of Prosopis juliflora (karuvelam) from the water bodies at K.Chennampatti (An adopted village of our college NSS cell) during NSS special camp which was supported by Caring Nature organization (NGO), Virudhunagar
3. Demonstration for the determination of water quality parameters in the potable water consumed by Government school students at K.Chennampatti village during NSS special camp which was supported by Caring Nature organization (NGO), Virudhunagar
4. A Cycle rally was organized at K.Chennampatti village to create awareness about Cleanliness of the environment which was supported by Caring Nature organization (NGO), Virudhunagar
5. Auditing of waste production (Waste water & Solid waste) from the villages around Virudhunagar is initiated and NSS & NCC volunteers are involved in data collection during **Sundays**
6. Five Day workshop on Writing Skills for Nadar High School Students, Chennampatti.

## 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	47.36	0.56		47.92
Class rooms	79	-	-	79
Laboratories	46	-		46
Seminar Halls	10	-		10
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	12	10		22
Value of the equipment purchased during the year (Rs. in Lakhs)		32.51		32.51
Others Drawing Halls	4	-		4

#### 4.2 Computerization of administration and library

1. Effective intra and inter departmental communication through official mail system
2. WEB OPAC – software utilisation in the library for accessing books effectively
3. Digital library to access the e-journals, NPTEL videos, spoken tutorial classes
4. With the objectives of promoting e-Learning, learning beyond regular curriculum among our students, the students can access the journals and e-books through intranet and they can access via college website also.

#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	61,523	1,72,52,549	942	6,58,172	62,465	1,79,10,721
Reference Books	4317	33,42,998	20	20,500	4337	33,22,498
e-Books	-	-	-	-	-	-
Journals (mandatory)	294	8,46,778	5	1,85,738	299	10,32,516
e-Journals (mandatory)	9	25,98,630	-	1,66,742	9	27,65,372
Digital Database	-	-	-	-	-	-
CD & Video	5223	-	9	-	5232	-
Others (specify)						



#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1436	17		65 mbps				
Added	34	1						
Total	1470							

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

1. Our campus is Wi-Fi enabled and all the computers are connected to Internet
2. Certification courses like JAVA, CCNA, Cloud Computing, Cybersecurity, Mobile technology, Electro Pneumatics courses are regularly conducted
3. Centralised automated Hall booking system, Leave management system, Booking of seats in buses in evening

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

i) ICT	8,40,641.07
ii) Campus Infrastructure and facilities	21,45,632.62
iii) Equipments	3,68,036.50
iv) Others	28,63,048.78
<b>Total :</b>	<b>62,17,358.97</b>

## Criterion – V

### 5. Student Support and Progression

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

1. Ensuring that all the information regarding special classes, coaching classes, or any other activities are sent through official mail.
2. Initiatives are taken to insist on collection of student's feedback for training programmes.
3. Students representative meeting is conducted to disseminate the importance of quality, assessment systems and processes.

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

1. Mentors are assigned at the second year and the student profile/dossier is maintained to monitor/encourage his curricular, co-curricular and extra curricular activities.
2. Consistent efforts are made through TDP cell to make the students to be placed in reputed companies.

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

UG	PG	Ph. D.	Others
3254	56	17	-

(b) No. of students outside the state

2

(c) No. of international students

-

No	%	Men	No	%	Women
1871	57		1439	43	

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
113	280	1	2970	-	3364	95	227	1	2987	-	3310

Demand ratio -          Dropout % -

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

- GATE/TANCET/CSIR NET Coaching was given to the students
- Hours have been allotted in the usual time table for conceptual learning and assessment are also done.

No. of students beneficiaries

350

#### 5.5 No. of students qualified in these examinations

NET  SET/SLET  GATE  CAT   
 IAS/IPS etc  State PSC  UPSC  Others

#### 5.6 Details of student counselling and career guidance

Our college's Best practice is that we are following Mentor - mentee system. The mentors guide, motivate and counsel their mentees whenever necessary. In addition to that, our college has one counselor who takes care of the students, when they require specialized, intensive or long - term counselling. One hour is allotted as counseling hour per week and the students can approach their tutors/mentors and have a fruitful interaction with them. The opportunities for higher studies and jobs and the placement details are discussed. Counseling is also done related to various issues like language, lack of concentration etc.

In every department, there is a Faculty Placement Coordinator and two Student placement coordinators. They work in unison with the TDP cell and guide and motivate the students.

#### 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
33	623	216	129

#### 5.8 Details of gender sensitization programmes

- Guest lecture on Challenges of Adolescence was arranged for all the first years

## 5.9 Students Activities

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

State/ University level  National level  International level

No. of students participated in cultural events

State/ University level  National level  International level

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

Sports : State/ University level  National level  International level

Cultural: State/ University level  National level  International level

## 5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	16	836000
Financial support from government (Scholarship)	1217	6919500
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	-

### 5.11 Student organised / initiatives NIL

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: \_\_\_\_\_

1. Number of buses increased based on students request
2. Number of routes for college buses increased
3. Boys rest zone created
4. Expansion of Ladies Rest room with bathing facility

## Criterion – VI

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

6.1 State the Vision and Mission of the institution

**VISION:**

To make this Institution, the unique of its kind in the field of Research and Development activities in this part of the world.

**MISSION:**

To impart highly innovative and technical knowledge to the urban and unreachable rural student folks through “Total Quality Education”.

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

We are affiliated to Anna University. Hence we follow Anna University Curriculum. However in order to bridge the gap between Curriculum and Industry requirement, students are taken on industrial visits, students are motivated to take up internship/inplant training. Guest lectures, seminar and workshop are arranged and also the students are permitted to attend outside also.

6.3.2 Teaching and Learning

1. ICT enabled campus
2. Encouraging faculty to attend FDPs, Workshops, conferences etc
3. Student feedback on various aspects of teaching
4. Initiatives on Blended learning approach
5. Inauguration of Prototype Centre
6. Encouraging students to enrol in NPTEL courses

6.3.3 Examination and Evaluation

End semester examination is conducted by affiliated university. However continuous assessment of the students is done with slip test, assignments, seminars and mini projects and cycle test also.

6.3.4 Research and Development

A Research and Development Cell is functioning with an aim to improve the quality of the research. To improve the quality of the research projects, rubrics have been created by the IQAC and it has been disseminated to all the faculty members.

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

1. Library details are updated then and there in our college website and can be accessed through LAN
2. labs and class rooms have LCD projectors
3. Our college is a Member of DELNET, NDL. Through this, a large number of books and journals can be accessed.
4. Lectures from Anna University are telecast live through EDUSAT.

### 6.3.6 Human Resource Management

1. Honouring the best performing faculty under various categories during the college day celebrations
2. Staff orientation programmes, stress management programmes, FDPs conducted
3. Rank holders are given incentives to retain the best talent
4. Paid maternity leave
5. Sabbatical leave for faculty members who are on the verge of submitting their PhD thesis
6. Encouragement to publish research articles in high Impact Factor Journals

### 6.3.7 Faculty and Staff recruitment

1. Recruitment is based on merit basis and also as per norms laid by AICTE and Affiliating University, Rank holders preferred
2. Staff must have no history of arrears in their UG and PG degree
3. Written test followed by interview by the panel of experts

### 6.3.8 Industry Interaction / Collaboration

1. Industry Institute Interaction Cell is functioning in our college to provide a platform for the students and faculty members to share the projects they have done in the industry or about their industrial visit.
2. Final year students are motivated to do projects or internships in the industry.
3. These effort have resulted in the creation of Centre of excellence in Industrial Automation along with SMC Pnuematics.
4. Analog lab (TIAL) created in collaboration with Texas Instruments
5. Center for Academic Excellence in Big Data Analytics in association with DELL EMC.

### 6.3.9 Admission of Students

65% of students are admitted through Counseling and 35% seats are filled under management quota.

### 6.4 Welfare schemes for

Teaching faculty	PF, Gratuity and group insurance scheme
Non teaching faculty	PF, Gratuity, ESI and group insurance scheme College transportation free
Students	Group insurance scheme Bank loan is arranged for the students through Canara Bank Free medical Facility Counselling, Book Bank Schemes

### 6.5 Total corpus fund generated

Rs. 39,66,300/-

### 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	Audit by Prof. N. Kamaraj	Yes	HoD
Administrative	yes	Audit by Prof. N. Kamaraj	Yes	College

### 6.8 Does the University/ Autonomous College declares results within 30 days? **NA**

For UG Programmes

Yes

No

For PG Programmes

Yes

No

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

NA

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

NA

6.11 Activities and support from the Alumni Association

1. Alumni delivers guest lectures/motivational talks
2. Help the TDP cell by arranging contacts for recruitment drive.
3. Help in networking with industries
4. Help in arranging industry personnel for guest lectures

6.12 Activities and support from the Parent – Teacher Association

There is no registered Parent Teacher Association. However

1. Participation of the parents in the department wise and year wise Parents Teachers meeting is enabled.
2. Parents feedback is also collected and their perspectives on the needs and demands of their wards are consolidated and addressed.
3. Parents are made as representatives in various committees like IQAC, Anti-ragging committee/Programme Advisory Committee,etc.

6.13 Development programmes for support staff

Language Skill Development Programme was conducted for the office staff

6.14 Initiatives taken by the institution to make the campus eco-friendly

1. To ensure green cover in the campus, periodically trees are planted, planted trees are watered and maintained.
2. Maintenance of Waste water recycling plant
3. Utilisation of Solar power, Solar water heaters in the hostels, Solar powered lights around the campus
4. Using Energy efficient rated appliances, CFL and LED lamps in the premises.
5. Replacing about 96% of CRT monitors in the Laboratory with TFT.
6. Maintenance of Water harvesting mechanisms
7. Ensuring paperless communication by effective usage of official mail
8. Awareness on minimization of wastage of energy and water



## 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.

1. Course Plan has details of Course outcomes mapped with program outcomes and the knowledge level for a particular course outcome.
2. Rubrics have been created to evaluate lab courses
3. Structured Feedback formats have been created to elicit opinion of stake holders (alumni, parents, employers, exit survey to final year students) on infrastructure, teaching learning process, value added programmes etc
4. To improve placements, conceptual learning and placement related training have been strengthened and their impact has been assessed using feedback to refine for the successive years
5. Attendance monitoring system is effectively followed both for the Forenoon and Afternoon session
6. Faculty members are encouraged to do online courses from NPTEL, courser etc.

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

1. Three Departments EEE, BT, MECH applied for the NBA and the visit was over during the 11 – 13 August, 2017.
2. A large number of workshops, FDPs and value added course were organised for the students. A sample report is given in Annexure IV.
3. To improve the presentation skills or for capacity building, an intra collegiate presentation was conducted and all of the faculty members demonstrated their effectiveness in presentation skills.
4. Academic audit was done by external experts and their reports were shared with the departments for further improvement.

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

Students Attendance Monitoring System (Annexure I)

Improving Teaching and learning process by adopting processes of outcome based education (Annexure II)

Mentor Mentee System

***\*Provide the details in annexure (annexure need to be numbered as i, ii,iii)***

#### 7.4 Contribution to environmental awareness / protection

1. Environmental studies paper for all the second year under graduates students.
2. Awareness programmes, camps, rallies etc are organised under NCC and NSS schemes
3. Solar powered water heaters with 1500 liters capacity (Four Numbers) and 1000 litre capacity in the boy's hostel and Girl's hostel for cooking and bathing
4. Solar street lights (Thirty in Nos)
5. 30 kW Solar Photo voltaic based power plant on gird.
6. Internal communication, mainly paperless or through usage of one sided sheets.
7. Effluent Treatment plant for recycling water
8. Cycle rally to promote Cleanliness and Hygiene, Plastic free world by our NSS and NCC volunteers.

7.5 Whether environmental audit was conducted?

Yes

No

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

##### **Strength:**

1. Enhancement of Industry-Institute relationship by III Cell.
2. Improvement of research perspectives by R & D cell.
3. Approximately 20% faculty members are rank holders
4. BEC qualified staff who help in improving the presentation skill of the students.

##### **Weakness:**

1. Department-level entrepreneurship development initiatives
2. Need to get more consultancy and funded projects

##### **Opportunities:**

1. Financial support to the faculty members by the management to present their work in Conferences/Seminar/Workshop etc
2. Placement initiatives can be strengthened by tracing out the possible Industries.
3. Students have the opportunity to work on inter disciplinary projects.

##### **Challenges:**

1. Very fierce competition among the existing colleges.
2. Competition from Arts and Science colleges
3. Inability to make all students industry ready.

**8. Plans of Institution for Next Year**

1. Creating collaboration with industries for internships/projects
2. Initiatives towards development of entrepreneurship skills in the students
3. All eligible departments to get Accredited by NBA

Name : Dr. T. Dhanalakshmi

Assoc. Prof/Chemistry

*T. Dhanalakshmi*

Signature of the Coordinator, IQAC

Name: Dr. Anant Achary

Principal

*Anant Achary*

Signature of the Chairperson, IQAC

**BEST PRACTICE I**

**1. Title of the Practice – Students Attendance Monitoring System**

**2. Objectives of the Practice :** Improving attendance

**3. The Context:** Students must attend all teaching- learning activities necessary for the pursuit of their studies. They have to undertake all associated assessments and attend meetings and other activities as required by the course.

**4. The Practice**

Attendance and particulars of marks of the students are sent to the parents through SMS and through post. Through this process the College keeps itself in touch with the parents.

**5. Evidence of Success**

The success of this strategy will be demonstrated through:

- Measurable improvement in student attendance in college and for key at risk groups
- Improvement in the attitudes of parents of students who do not attend classes regularly

**Best Practice II**

**1. Title of the Practice - Improving Teaching and learning process by adopting processes of outcome based education**

**2. Objectives of the practice**

The objective to make the students technically strong and to induce them to be innovative.

**3. The Context**

The objective is to create a skillful engineer who can compete globally. Our institute provides training for both students and faculty members to enable them to strengthen teaching and learning process.

**4. The Practice**

The teaching and learning practice in our college begins with the preparation of the well structured course plan. It contains course objectives, prerequisites and expected learning outcomes. Various ICT based teaching practices are complimented with the teaching learning process. The performance is assessed by cycle test, slip test and assignments. Various co-curricular activities such as Paper presentations, project presentations, seminars and technical quiz are also organized for the students. Students are encouraged to participate in NPTEL courses, online courses and other value added programmes.

**5. Evidence of success**

Quality education and placements are assured through educating the students and staffs through various training and development programs. High pass percentage, placements and meeting the Industry standards are some of the milestones achieved in the journey.



**Department of Electronics and Communication Engineering  
IETE Sponsored Course on Digital Design using Verilog HDL.**

**Convenors: Dr.R.SureshBabu**

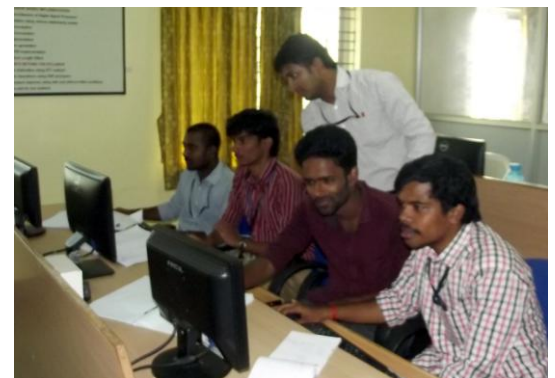
**Cordinators : Dr.J.Augustin Jacob  
Dr.M.Sundaram  
Mr.R.S.Venkatesan  
Mr.T.Palaniappan**

A three-day course on Digital Design using Verilog HDL was conducted for III ECE students from December 21-23, 2016. We thank our Management, Dean, Principal and HOD for continuously supporting us to organize this course for our budding ECE students. Totally 125 students attended the course. The course was organized as one and half day session for each section (III ECE A & B) separately. The Inaugural address was given by **Dr.R.Suresh Babu HOD/ECE** on 21.12.2016 at 9.00 am. Resource persons were Dr.R.Suresh Babu, Dr.M.Sundaram, Dr.J.Augustin Jacob, Mrs.T.Pandiselvi, Mr.C.S.Karthikeyan, Mr.R.S.Venkatesan, Mr.P.Aravind, Mr.T.Palaniappan, Mr.R.Rajprabhu, Mr.S.Alwyn Rajiv, Ms.P.Muthumari, Ms.D.Jessie Hannah Bell & Ms.M.Priyanka. This program was organized as a bridge course which acted as an eye opener to the basics of VLSI and XILINX software which is a part of the **ANNA UNIVERSITY** curriculum. Also hands on training in XILINX was provided. Apart from the concepts required for curriculum, this course also provided contents necessary for doing projects.

**Lecture by Dr.M.Sundaram**



**Hands on Session**



## FACULTY DEVELOPMENT PROGRAM



FDP on 'High Voltage Engineering' on 28<sup>th</sup> to 30<sup>th</sup> June, 2016 by **Dr.R.V.Maheshwari**, ASP, National Engineering College, Kovilpatti



FDP on 'Embedded Systems' on 2<sup>nd</sup> & 3<sup>rd</sup> December, 2016 by **Dr.N.Senthil Kumar**, Mepco Schlenk Engineering College

## WORKSHOPS



Workshop on 'Embedded Processor in Real Time Application' on 9<sup>th</sup> August, 2016 by **Mr. Hariharan**, Professor/ ECE, Thiagarajar College of Engineering, Madurai.



Five day Workshop on "Soft Computing Techniques In Civil Engineering" Guest Speaker Dr. S. Mohan, IIT Madras, on "Basics of Optimization and Mathematical Problem Formulation", 4.11.2016.



Hands-on Training – "Globus Toolkit and Open Stack" – **Mr. E. Mahendran**, Senior Engineer CDAC – 23.07.2016



Workshop on 'Servicing & Maintenance of Electrical & Electronics Lab equipments' for Lab technicians on 9<sup>th</sup> December, 2016



## TECHNICAL SYMPOSIUM



Department Symposium EVATAR'16 presided by **Er.R.Pandian**, Director, Alpha Beta Technologies, Madurai as resource person on 9<sup>th</sup> & 10<sup>th</sup> August, 2016

## GUEST LECTURES



Alumini Guest Lecture on "Career guidance and awareness" by Ms. S.Ramya Geetha on 26.07.16



Guest Lecture on 'Skill Development' by **Mr.M.Madan Kumar**, First Call Automation Pvt. Ltd, on 29<sup>th</sup> July 2016.



Guest Lecture on "Project Schedule & Project Management" **Er.S.V.Gurusamy**, Elite Engg & Const (HYD) Pvt.Ltd Hyderabad, Telangana , **16.08.16.**



Guest Lecture – "Cryptography and Network Security" – **Dr. R.Rajaram** – 19.08.2016





Guest Lecture on ‘Principles of Management’ on 13<sup>th</sup> October, 2016 by **Dr.R.Suresh babu**, Prof. & Head/ECE, Kamaraj College of Engineering & Technology.



Guest lecture on “Harmonics and Power Converters” on 20.10.2016 for PG students by **Mr. Devakirubakaran**, Project Engineer, Tech Tycoon Technologies, Arupukottai.

## VALUE ADDED COURSE



Inauguration on IEEE Blended Learning Programme on VLSI - Fundamentals of System Verilog by

**Mr. M.S. Damodaran**, Product Manager, Global IEEE, Bangalore on 11<sup>th</sup> August, 2016.



Spoken tutorial on SCILAB by IIT Bombay is conducted for 30 Numbers of II EEE Students.



Department of EEE in association with Practical Technologies, Madurai has organized a course on AUTOCAD 2015(2D & 3D).



Value added Course on “1D and 2D Signal Processing using MATLAB and GUI” Batch 1: 01.08.2016 to 06.08.2016 Batch 2: 08.08.2016 to 12.08.2016 and 19.08.2016

**Calendar for Activities of IQAC 2016-2017**

<b>Sl. No</b>	<b>Date</b>	<b>Activity</b>
1	16.07.16	IQAC meeting
2	26.07.16	Student representatives meeting
3	22.08.16	Student representatives meeting
4	August End	Internal Academic Audit by random checking
5	6.09.16	Submission of AQAR
6	30.09.16	Feedback on Teaching, Analysis, Action Taken
7	1.10.16	Parent Teachers Meeting
8	15.10.16	IQAC meeting
9	27- 28.01.17	Two Day Workshop on “Outcome Based Education: Concepts, Processes and Systems”
10	04.02.17	IQAC meeting
11	04.03.17	Parent teacher Meeting
12	March	Internal Academic Audit by random checking
13	30.03.17	Feedback on Teaching, Analysis, Action Taken
14	15.04.17	Internal meeting of IQAC
15	During May	Academic Audit
16	June, 2017	Preparation of AQAR

**Proposed Calendar for Activities of IQAC for 2017-2018**

<b>Sl. No</b>	<b>Date</b>	<b>Activity</b>
1	15.07.17	IQAC meeting
2	11-13.08.17	NBA Visit
3	3.10.17	Submission of AQAR
4	7.10.17	Parent Teachers meeting
5	September end	Internal Academic Audit by random checking
6	10.10.17	Student representatives meeting
7	16.10.17	Feedback on Teaching, Analysis, Action Taken
8	21.10.17	IQAC meeting
9	10.11.17	Faculty meeting
10	11.01.18	Student representatives meeting
11	20.01.18	IQAC meeting
12	26.01.18	Tentative date for Conference on “Innovative Strategies to enhance teaching learning process”
13	24.02.18	Parent teacher Meeting
14	March 2018	Internal Academic Audit by random checking
15	30.03.18	Feedback on Teaching, Analysis, Action Taken
16	13.04.18	Student representatives meeting
17	21.04.18	Internal meeting of IQAC
18	During May	Academic Audit
19	June, 2018	Preparation of AQAR