

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

**KAMARAJ**  
**COLLEGE OF ENGINEERING & TECHNOLOGY**

S.P.G. Chidambara Nadar - C. Nagammal Campus,  
S.P.G.C. Nagar, K.Vellakulam - 625 701, Near Virudhunagar, Madurai District.



Accredited by NAAC with "A" Grade

## Year: 2017 - 2018



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

2017 - 18

### 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, K. Vellakulam

City/Town

MADURAI

State

TAMIL NADU

Pin Code

625 701

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:

9486823312

Name of the IQAC Co-ordinator:

Dr. T. Dhanalakshmi

Mobile:

97889 02451

IQAC e-mail address:

iqac@kamarajengg.edu.in

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)

EC(SC)/09/A&A/11.1 dated 14-9-2015

1.5 Website address:

www.kamarajengg.edu.in

Web-link of the AQAR:

<http://www.kcetvnr.org/docs/AQAR 2017-18.pdf>

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

20/10/2015

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 2016 - 17 Submitted to NAAC on 06-10-17
- iii. AQAR \_\_\_\_\_ (DD/MM/YYYY)
- iv. AQAR \_\_\_\_\_ (DD/MM/YYYY)

1.9 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 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)

ANNA UNIVERSITY

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

## **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) **NIL**

(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. Action plans for enhancing the quality of publications from our faculty members.
2. Creation of common templates for presentation by the staff both inside and outside the college.
3. Revision of assessment tools incorporating pedagogy approach and outcome based evaluation.
4. Renewal and revision of Faculty Performance Based Appraisal System and Student Survey.
5. Incorporation of the report by the External Academic Audit on the day-to-day activities by the departments, Involvement of Internal trainers in the placement related training

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	Four Departments ECE, CSE, PT and CIVIL are preparing the SAR to apply for NBA. Mock audit by external experts were done and the departments are revising the SAR based on the Comments received.

Collaboration with Industries	Faculty members are motivated to go for internships/training in the industries to gain first hand information about the requirement of industries and to enrich the students to become readily employable.
Improving Teaching Learning process	ISTE sponsored Six Days FDP was conducted on Pedagogic Initiatives in Outcome Based Education.

*\* Attach the Academic Calendar of the year as Annexure.*

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	27
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
<b>Total</b>	23	-	23	27

##### 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)

The student's feedback is taken online mode and all the other feedbacks are manual.

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

Our college is affiliated to Anna University and the Curriculum and Syllabi prescribed by the Anna University is followed in our college. Anna University prescribed the new regulation from the year 2017. At present, two regulations R2013 and R2017 are followed in our college.



### Highlights of Regulation 2017

Highlights	Remarks
The total number of credits per semester cannot exceed 36	The Institution is responsible for registering the courses that each student is proposing to undergo in the ensuing semester
Flexibility to Drop courses	From the III to final semesters, the student has the option of dropping existing courses in a semester during registration. Total number of credits of such courses cannot exceed 6.
Fail in Theory course	when offered next, earn continuous assessment marks and attend the end semester examination
Fail in Electives and open electives	attend the classes and fulfill the attendance requirements + earn continuous assessment marks and attend the end semester examination
Fail in final semester examinations	Student may be allowed to register for the course in the next semester itself
Open Elective	courses include the courses from other branches which a student can choose from the list specified in the curriculum of the programme
Requirements to Obtain a Degree	<ul style="list-style-type: none"><li>• Must gain the required number of total credits</li><li>• Must complete the course requirements</li><li>• Successfully completed the NCC/NSS/NSO/YRC requirements</li><li>• No disciplinary action</li></ul>

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
263	220	26	17	-

2.2 No. of permanent faculty with Ph.D.

47

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
39	-	1	17	2	3			42	20

2.4 No. of Guest and Visiting faculty and Temporary faculty

2

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	21	21	1
Presented papers	129	97	5
Resource Persons	1	41	48

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

1. As a part of Innovation in Teaching Learning Process, all classrooms are fitted with LCD projectors and the PPT/videos/Materials for the lectures are sent to the students through official mail.
2. Students are motivated to undergo online NPTEL courses. NPTEL videos and EDUSAT lecture videos are available in the Digital Library also for reference by faculty/students.
3. To impart conceptual learning, online multiple choice questions, quizzes, assignments are sent through official mail and faculty can monitor the responses of students. .

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)

Scrutiny of the question papers and the evaluated answer scripts by subject experts

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

10

2.10 Average percentage of attendance of students

96

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	108	Nil	76.85	6.48	Nil	83.33
BE ECE	124	2.42	79.03	4.03		85.48
BE EEE	125	3.2	59.2	8.8		71.2
B.E EIE	43	8.3	8	7.8	7.7	40
BE MECH	129	6.97	54.26	6.2		68
BE CIVIL	137	2	67.8			70
B Tech IT	44	Nil	63.63	15.90	Nil	79.54
BTech PT	42	Nil	60.16	10.6		70.66
BTech BT	54	20	80	Nil	Nil	100
BE MTR	46	0	54.34	19.56		73.91
<b>PG Courses</b>						
M Tech BT	6		66.6	33.3		100
M Tech PT	1		100			100
ME SE	11	18	73			90.9
ME PSE	NIL					
ME Manufacturing Engineering	NIL					
ME CN	2	50	50			100

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

1. Creation of focus groups with special care to College vision, mission and quality policy, Teaching – learning process, Co Curricular Activities, Extra Curricular activities, Research and Development, Industry – Institute Interaction and ERP development.
2. Focus group for Teaching Learning Process to monitor the progress of the students, scrutinize the question papers and evaluated answer scripts, etc
3. Monitoring of course file, lecture Schedule, course plan by random sampling

4. 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.

#### 2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	20
UGC – Faculty Improvement Programme	NIL
HRD programmes	80
Orientation programmes	8
Faculty exchange programme	NIL
Staff training conducted by the university	NIL
Staff training conducted by other institutions	21
Summer / Winter schools, Workshops, etc.	91
Others	210

#### 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	24	-	-	-
Technical Staff	56	-	4	-

## 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, scrutinize the project proposals sent to funding agencies and provide an atmosphere conducive for research. The faculty members are motivated to attend conferences/workshop in reputed institutes and also to publish papers in SCI journals only.
2. On Duty to attend seminars, conferences (National, International)
3. On Duty for research fellowship of IIT, IAS, TNSCST, INSA, NASI.
4. Faculty members are encouraged to visit national labs and industries

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	10	-	2	21
Outlay in Rs. Lakhs	184.59	-	54.78	-

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	23	-		
Outlay in Rs. Lakhs	2.27	-		

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	70	3	-
Non-Peer Review Journals	4	-	-
e-Journals	16	-	-
Conference proceedings	6	1	-

#### 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	2017-2020	DBT	45.89 lakhs	32.26 lakhs (first year grant)
	18 months	DRDO	9.78 lakhs	6.00 lakhs

Minor Projects				
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects <i>(other than compulsory by the University)</i>	2017-2018	TNSCST	44,000	44,000
Any other(Specify)				
Total			56.11 lakhs	38.70 lakhs

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

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	-	4	1	-	-
	Sponsoring agencies	-	-	National Biodiversity Authority	-	-

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 University/College

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	
	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

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

33

75+5

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

8

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

NIL

State level

NIL

National level

NIL

International level

NIL

3.22 No. of students participated in NCC events:

University level

NIL

State level

47

National level

5

International level

NIL

3.23 No. of Awards won in NSS:

University level

NIL

State level

NIL

National level

NIL

International level

NIL

3.24 No. of Awards won in NCC:

University level	<input type="text"/>	State level	<input type="text"/>
National level	<input type="text"/>	International level	<input type="text"/>

3.25 No. of Extension activities organized

University forum	<input type="text"/>	College forum	<input type="text"/>		
NCC	<input type="text" value="4"/>	NSS	<input type="text" value="2"/>	Any other	<input type="text"/>

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

1. International Plastic Bag Free Day – Rally at Virudhunagar, Organized by Caring Nature, Virudhunagar
2. Madurai Vaigai River mass cleaning campaign, Madurai District Collector Office
3. Tree Plantation Programme at Chinnamooppan Village (250 Saplings), Near Virudhunagar. Organized by Caring Nature, Virudhunagar
4. Visit and carrying out cleaning activities at Virudhunagar Unjha Dhanasamy Parimala Devi Old Age Home
5. Fund Collection Work for Indian Association for the Blind (IAB)
6. “Road Safety Awareness Rally” at Virudhunagar, Organized by Caring Nature, Non Government Organization, Virudhunagar.



## 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	47.92	-		
Class rooms	79	-		
Laboratories	46	-		
Seminar Halls	10	-		
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.		-		
Value of the equipment purchased during the year (Rs. in Lakhs)		-		
Others (drawing halls)	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	62,905	1,79,10,721	80	1,25,646	62985	1,80,36,367
Reference Books	4195	33,22,498	20	25,100	4215	33,47,598
e-Books	-	-	-	-	-	-
Journals	299	10,32,516	141	3,87,535	141	3,87,535
e-Journals	9	27,65,372	195	4,68,540	195	4,68,540
Digital Database	-	-	-	-	-	-
CD & Video	5232	-	43	-	5275	-
Others (specify)			-	-	-	-

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1410	18	85 mbps					
Added	60							
Total	1470	18	85 mbps					

#### 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	
ii) Campus Infrastructure and facilities	10.22
iii) Equipments	7.67
iv) Others	28.76
<b>Total :</b>	<b>46.65</b>

## Criterion – V

### 5. Student Support and Progression

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

Students support services are made known to students through college calendar. During the first year induction/orientation programme, I year students are given a curtain raiser about the available students support services in the campus.

The students are given information regarding the mentor-mentee system which is rigorously followed to enhance their career prospects.

Counseling by a registered counselor is also undertaken to ensure that he is motivated in the correct path. Information regarding anti-ragging committee, grievance cell are displayed in prominent places across the campus to ensure a safe and congenial atmosphere for our students. All the information regarding special classes, coaching classes, bus trips, placement activities, fee particulars, inter/intra college competitions are sent through official mail/circular.

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

Students who are irregular to the classes, late comers, failures in cycle tests/ university are intimated to their parents consistently by means of SMS, report card, mobile etc.

The students are motivated to enhance their performance by the distribution of gold medals for class toppers, best NCC cadet, Communicative English, University rank holders, all rounders across the years.

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
3221	65	-	-

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

NIL

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

NIL

Men

No	%

Women

No	%

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
95	227	1	2987	-	3310	80	179	1	2961	-	3221

Demand ratio  Dropout %

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

1. GATE/TANCET/CSIR NET Coaching was given to the students. UPSC books are available in library. Books for other competitive examinations are also available in library.  
 2. Hours have been allotted in the usual time table for conceptual learning and assessment are also done.

No. of students beneficiaries

#### 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 counseling. 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/Jobs and the placement details are discussed. Counseling is also done related to various issues like language, lack of concentration, Physical fitness etc.

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

No. of students benefitted

### 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
46	695	259	187

### 5.8 Details of gender sensitization programmes

--

### 5.9 Students Activities

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

Inter Collegiate 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 : Inter Collegiate 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		
Financial support from government	1123	2,39,25,000
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: \_\_\_NIL\_\_\_\_\_

## 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, Guest lectures, seminars and workshops are arranged in our campus and the students are also permitted to attend similar events in other colleges also.

Some important topics are offered as Content beyond syllabus for the students in all the available courses to enhance the knowledge of the students.

6.3.2 Teaching and Learning

To improve the teaching – learning process, all the classrooms have LCD projector so that relevant video can be played. Wifi and LAN facilities are also provided in the classroom to use internet facility to conduct classes. A six days FDP on “Pedagogical Initiatives in Outcome Based Education” sponsored by ISTE – AICTE was conducted to equip the teaching faculty with the required pedagogical initiatives and to empower them with recent trends in OBE.

Course plan is given well in advance to the students. It helps them to come prepared for the class. PPTs and videos for the classes are also sent previously through the official mail so that the students can go through the content.

Assignments and quizzes are posted to the student’s mail id by the subject –incharges and the reports are analysed to gauge the level of the students in the corresponding subject. Sliptests and assignments are conducted for each unit to assess the learning outcome of the students for that particular CO. Students are given an opportunity to take seminars in their area of interest in familiar topics. To improve self learning, students are motivated to attend online courses like NPTEL, SWAYAM etc.

### 6.3.3 Examination and Evaluation

1. Subject experts are appointed for each course.
2. Question papers for internal tests are prepared strictly as per standard template with Revised Blooms Taxonomy Learning levels.
2. Scrutiny of question paper and evaluated answer scripts are done by the subject experts.
3. Answer paper correction is based on the answer key prepared by the faculty.
4. It is ensured that Cycle test question paper format aligns with the University Examination format.

### 6.3.4 Research and Development

1. A well structured R&D cell is established in our college. Our college Principal is the chairperson of the R & D cell. The cell has two coordinators to take care of the activities. Each department will have a faculty member as R & D cell Coordinator who will coordinate with the department as well as R &D cell.
2. R & D cell conducts meeting on all Saturdays and the faculty with PhD/doing PhD are given a chance to discuss their research work to improve interdisciplinary research.
3. R & D club is functioning in our college for the students to motivate, guide and orient them towards research, learning new things etc.
4. R & D cell conducts counselling session every Wednesday to motivate the Faculty members holding PhD degrees and those doing PhD to publish journals in reputed publications to finish their PhD work.
5. Faculty members are motivated to publish papers in SCI/Scopus Indexed journals and to attend conferences/seminar/workshops in reputed institutes like IIT, IISc etc.

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

1. Library club is inaugurated and various programmes are conducted with the help of club members to motivate the students to use the library fruitfully. Digital library caters to the e-learning mode for the students. Library procured NCERT books, IAS study materials, GATE books to motivate the students to appear for various competitive exams.
2. All the classrooms and labs are fitted with LCD projectors, Wifi/LAN enabled.
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.
5. Our college has a prototype centre which helps the students to model their project ideas.



### 6.3.6 Human Resource Management

#### **Faculty Members**

1. Three batch of staff members attended three day residential camp “Perform with passion” by Mr. Vamana Kumar. It dealt with team work, communication skills, emotions etc.
2. For the benefit of women faculty, yoga and meditation training is given under the programme “Perform with Fitness” so that they are mentally and physically fit.
3. Motivational Talks by Mr. K. Marimuthu, Tahsildar is arranged for the faculty to understand the students and how to handle them.
4. Train the Trainer program and also training on Aptitude and logical reasoning is conducted for the faculty members.

#### **Students**

1. All the final year students are given Three day residential program “Looking Beyond” by Mr. Umashankar Jayaram to motivate them to communicate better, to shed their stage fear etc.
2. Motivational talk by JCI trainer Mr. A. Tenzing is arranged for the first year and second year students to motivate them to communicate better, manage their time, to work in a team etc.
3. RYLA programme is conducted for the first year students to instil leadership qualities among the students.

### 6.3.7 Faculty and Staff recruitment

1. Job vacancies are intimated to the public in the college official website.
2. Recruitment is based on merit and also as per norms laid by AICTE and Affiliating University. University Rank holders are usually preferred.
3. Written test is first conducted followed by interview by a panel of experts.

### 6.3.8 Industry Interaction / Collaboration

1. A well structured III Cell is functioning in our college. Our college Principal is the chairperson of the III Cell. The cell has two coordinators to take care of the activities. Each department will have a faculty member as III Cell Coordinator who will act as a bridge between the department and III cell.
2. Industry Institute Interaction Cell conducts weekly meeting on every Thursdays and it provides a platform for the students and faculty members to share the projects they have done in the industry or about their industrial visit.
3. Faculty members have also undergone internships in various industries during vacation time to build a rapport with the industries.

4. Final year students are motivated to do projects or undergo internships in the industry. This resulted in the internships by large number of our students in industries. The following table shows the number of students who have undergone internships in all the departments.

Branch	No. Of Students	Branch	No. Of Students
CSE	89	EIE	6
ECE	19	PT	3
EEE	37	BT	12
CIVIL	6	IT	25
MECH	34	MTR	21

#### 6.3.9 Admission of Students

1. 65% of students are admitted through Counselling and 35% seats are filled under management quota for both undergraduate and post graduate courses.
2. The admission of the students to UG courses is based on the marks they obtained in Physics, Chemistry and Maths in their higher secondary examination. (Maximum Cutoff – 200)
3. The diploma candidates are directly admitted to Second Year UG following the norms as put up by the affiliating University
4. The college promoted the school students visit to our college to disseminate the knowledge about our labs, infrastructure etc among them.

#### 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

#### 6.5 Total corpus fund generated

9,60,690/-

#### 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	Dr. N. Kamaraj	yes	Principal
Administrative	yes	Mr. R. Rajkumar	yes	Mr. A. Inbasekaran

6.8 Does the University/ Autonomous College declares results within 30 days? **Not applicable**

For UG Programmes      Yes     No

For PG Programmes      Yes     No

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

**Not applicable**

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

**Not applicable**

6.11 Activities and support from the Alumni Association

1. Alumni of various departments deliver guest lectures/motivational talks/inputs about interview process in a particular industry to their juniors.
2. Alumni help the TDP cell by arranging contacts for recruitment drive.
3. Also help in networking with industries, in arranging industry personnel for guest lectures etc.

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

1. The department of English conducted training programme for the Non teaching staffs in three batches to give individual attention to improve their LSRW skills.
2. All the Lab technicians, department support staff and library staff have attended three day residential camp “Work with Passion”. The programme was conducted to motivate them to take part actively in day to day activities of the college.
3. Department of EEE conducted a Two day Skill development program for Lab Assistants and Technicians.
4. For the benefit of women faculty, yoga and meditation training is given under the programme “Perform with Fitness” so that they are mentally and physically fit.
5. A skill development programme for hostel clerks on Microsoft Excel was conducted on 5.10.2017.

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

1. To ensure green cover in the campus, trees are planted periodically and 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. Academic responsibility is streamlined by introduction of focus groups.
2. All the first hours were declared as test hour for all the six subjects. The test administered may be of any mode like open book exam, quiz, objective type questions etc.
3. New technical and non technical clubs are inaugurated and all the first year and second year students should be the members of any of these clubs.

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

Four Departments ECE, CSE, PT and CIVIL are preparing the SAR to apply for NBA. Mock audit by external experts were done and the departments are reframing the SAR based on Comments received.  
Faculty members are motivated to go for internships/training in the industries to gain first hand information about the requirement of industries to make the students employable.  
ISTE sponsored Six Days FDP was conducted on Pedagogic Initiatives in Outcome Based Education.

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)

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

#### 7.4 Contribution to environmental awareness / protection

1. Environmental study 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). Also tubelights are replaced with LED/CFL.
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  yes  No

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

#### **Strength:**

1. Scope for interdisciplinary research in the form of paper publication, project proposal etc.
2. Enhancement of Industry-Institute relationship by III Cell.
3. Improvement of research perspectives by R & D cell.

#### **Weakness:**

1. Consultancy and funded projects may be improved
2. Placement initiatives can be strengthened by tracing out the possible Industries.

#### **Opportunities:**

1. Financial support to the faculty members by the management to present their work in Conferences/Seminar/Workshop etc
2. 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**

Autonomous status  
NBA Accreditation for CSE, ECE, PT and CIVIL  
Strengthening Industry Institute Interaction

Name Dr. T. Dhanalakshmi

Name Prof. ANANT ACHARY

T. Dhanalakshmi  
19/11/18

Anant Achary

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

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**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.

Various Activities of Our College



R & D Cell Meeting



IQAC Meeting - 25.11.2017



Anti Ragging Awareness Programme Competition

20.07.2017



Fire Safety Awareness for Staff Members -

04.08.2017



Skill Development Training Program for  
Administrative Staff by our Principal

21.08.2017



Skill Development Programme – Hostel Clerks –

05.10.2017

## Various Activities of Our College



71<sup>st</sup> Independence Day



69<sup>th</sup> Republic Day



Vasan eye Care – Eye Checkup camp for Staffs -  
28.10.2017



School Students Visit Our Campus



Student Interaction with Minister M.Pandiarajan -  
22.11.2017



Student Welfare club Inauguration – 04.01.2018

**Calendar of Activities of IQAC 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	20.09.2017	English Skill Building Program for First Years
4	September end	Internal Academic Audit by random sampling
5	3.10.17	Submission of AQAR
6	7.10.17	Parent Teachers meeting
7	16.10.17	Feedback on Teaching, Analysis, Action Taken
8	25.11.17	IQAC meeting
9	12.12.2017	Feedback from First Year Students for ODD semester
10	20.12.2017 – 22.12.2017	Feedback session for theory subjects from students for ODD semester
11	20.01.18	IQAC meeting
12	23.02.2018	Complaints Cum Redressal Meeting
13	10.03.2018	Dissemination of NAAC New Manual
14	27.03.18 – 28.03.18	Technovision2K18
15	19.04.2018	Feedback from First Year Students for ODD semester
16	28.04.2018	IQAC meeting
17	18.06.2018 – 23.06.2018	Six day AICTE-ISTE faculty Refresher/Induction program in "PEDAGOGICAL INITIATIVES IN OUTCOME BASED EDUCATION"
18	Every Thursday	III Cell Meeting

**Proposed Calendar for Activities of IQAC for 2018-2019**

<b>Sl. No</b>	<b>Date</b>	<b>Activity</b>
1	21.07.2018	IQAC meeting
2	August	One Day Life Skill Program for II years
3	5.08.2018	Graduation Day
4	August	Induction Programme for First Years
5	September	Internal Academic Audit by random sampling
6	1.10.2018	Meeting with NAAC Criterian –Incharges for Dissemination of NAAC New Manual
7	11.10.2018 – 12.10.2018	Feedback session for theory subjects from students for ODD semester
8	25.10.2018	First Year Feedback for theory courses
9	27.10.2018	IQAC meeting
10	22.11.2018	Submission of AQAR 2017 - 2018
11	December	First Year Feedback for theory courses, Submission of Question Bank for all Even Semester Theory Courses
12	1.12.2018	KITES
12	19.01.2019	IQAC meeting
13	February	First Feedback session for Theory Courses
14	March	Internal Academic Audit
15	20.04.2019	IQAC meeting
16	April	Second feedback session for all the courses
17	Every Thursday	III Cell Meeting
18	Every Wednesday, Saturday	R and D cell Meeting
19	June	Preparation of AQAR and for NAAC Reaccreditation