



# KINGS ENGINEERING COLLEGE

Irungattukottai, Sriperumbudur, 602 117.

## AQAR (ANNUAL QUALITY ASSURANCE REPORT) **2016-2017**

NAAC Executive Committee No.EC (SC)/22/A&A/29.1 Dated 22.02.2017

SUBMITTED TO



**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**  
(AN AUTONOMOUS INSTITUTE OF THE UNIVERSITY GRANTS COMMISSION)

P.O.BOX NO.1075, NAGARBHAVI, BANGALORE -560072, INDIA

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

## Part – A

**AQAR for the year**

2016-2017

### I. Details of the Institution

1.1 Name of the Institution

KINGS ENGINEERING COLLEGE

1.2 Address Line 1

Opposite to Hyundai Motors,

Address Line 2

Irungattukottai

City/Town

Chennai

State

Tamil NADU

Pin Code

602117

Institution e-mail address

kingsengineeringcollege@yahoo.com

Contact Nos.

044-71224400

Name of the Head of the Institution:

Dr. A.V. MAYAKKANNAN

Tel. No. with STD Code:

044-71224402

Mobile:

9444047238

Name of the IQAC Co-ordinator:

Mrs. B. ANITHA VIJAYALAKSHMI

Mobile:

9840168607

IQAC e-mail address:

anithaneil@yahoo.co.in

1.3 NAAC Track ID

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)/22/A&A/29.1 dated 22-02-2017

1.5 Website address:

www.kingsedu.ac.in

Web-link of the AQAR:

www.kingsedu.ac.in/AQAR2016-17.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	B+	2.56	2016-2017	5 years

1.7 Date of Establishment of IQAC :

DD/MM/YYYY

02-08-2016

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) ----

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)

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

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

Autonomy by State/Central Govt. / University

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

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

2.1 No. of Teachers	<input type="text" value="10"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="1"/>
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="1"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="1"/>
2.8 No. of other External Experts	<input type="text" value="-"/>
2.9 Total No. of members	<input type="text" value="17"/>
2.10 No. of IQAC meetings held	02 Per Year.
2.11 No. of meetings with various stakeholders:	No. <input type="text" value="02"/> Faculty <input type="text" value="02"/> Non-Teaching Staff <input type="text" value="01"/> Students <input type="text" value="01"/> Alumni <input type="text" value="01"/> Others <input type="text" value="01"/>
2.12 Has IQAC received any funding from UGC during the year?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
If yes, mention the amount	<input type="text"/>
2.13 Seminars and Conferences (only quality related)	
(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC	
Total No.	<input type="text"/> International <input type="text"/> National <input type="text"/> State <input type="text"/> Institution Level <input type="text"/>
(ii) Themes	<input type="text"/>
2.14 Significant Activities and contributions made by IQAC	

The IQAC played a very active role in inculcating the sense of providing quality education to the students with the following quality objectives for 2016-17:

- To introduce blackboard learning management for students to download course materials, assignments, videos etc.,
- To introduce peer teaching to help the slow learners.
- To enhance the learning resources by providing additional infrastructure.
- To increase the NSS activities for the holistic development of students,
- To enhance the ecological practices so as to conserve water, power etc and make the campus eco-friendly.

## 2.15 Plan of Action by IQAC/Outcome

### Plan of Action

1. To conduct national conferences, seminars, workshops and guest lectures.
2. To enhance students support systems through counselling and career guidance programmes.
3. To conduct gender sensitization programmes

2.15 Whether the AQAR was placed in statutory body      Yes       No

Management       Syndicate       Governing Council

Provide the details of the action taken

1. National conferences, seminars and guest lecturers were conducted by various departments
2. 186 students got benefited from counseling and career guidance programmes
3. Women Empowerment Committee of the college conducted various Programmes

## 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	Nil	Nil	Nil	Nil
PG	Nil	Nil	Nil	
UG	4	--	--	
PG Diploma	--	--	--	--
Advanced Diploma	--	--	--	--
Diploma	--	--	--	--
Certificate	--	--	--	8
Others	--	--	--	10
<b>Total</b>	4	--	--	18
Interdisciplinary				
Innovative				

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

Pattern	Number of programmes
Semester	4 UG

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

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

*\*Please provide an analysis of the feedback in the Annexure*

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

No

- 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
	112	82	20	10	-

2.2 No. of permanent faculty with Ph.D.	10
---	----

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
	82	-	20	-	10	-	-	-	-	-

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 Seminars/ Workshops	--	35	--
Presented papers	54	1	--
Resource Persons	-	-	-

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

Faculty Innovation in teaching and learning summarized as per the following description. Contributions to teaching and learning are activities that contribute to the improvement of student learning. These activities may include innovations not limited to, use of instruction delivery and instructional methods. Contributions to teaching and learning should satisfy the following criteria:

- ✓ The work must be made available on Institute website
- ✓ The work must be available for peer review and critique
- ✓ The work must be reproducible and developed further by other scholars

The department/institution may set up appropriate processes for making the contributions available to the public, getting them reviewed and for rewarding. These may typically include the statement of clear goals, adequate preparation, use of appropriate methods, the significance of results, effective presentation and reflective critique

**Multimedia Learning Process:**

- LCD projectors are available in all classrooms and seminar halls. Faculty members prepared well laid out PPTs on various topics with the guidance of senior faculty NPTEL, Simulations, Virtual Labs, PPTs and Charts are extensively used to augment conventional blackboard teaching.
- The institution also makes use of working models, charts and demonstration experiments and role play to make the learning practical and exciting.
- It will help the faculties to represent the content in a more meaningful way using different media elements.

**Bridge Courses:**

- The college offers Bridge Courses in selected subjects such as Computer Programming, Engineering Graphics, Mathematics, Basic Biology etc. for the enrolled students before the commencement of regular first year teaching programme also help to assess the students.
- Language Proficiency Programmes, Computer Orientation Programmes and personality development Programmes offered for educationally disadvantaged students and lateral entry students.
- Special coaching classes conducted for lateral entry students on communication skills and mathematics.

**Guest lecturers:**

- Guest Lectures on Recent trends conducted for the students that provide an overview by identifying key areas, stimulating thinking and facilitating understanding, arousing interest in their field.
- Industrial Visits and training advanced learners are recognized right from the beginning, from their score in the higher secondary, unit tests, model exam and first-semester university examination performance. They are called, and their interests and requirements are heard, and all the help is rendered to sustain their enthusiasm and further improvement in performance.
- The institution encourages the enthusiastic students who wish to participate in various competitions conducted both inside and outside the college.
- The students receive grants for attending national and international level conferences.
- The college organizes multiple events such as technical symposium, entrepreneurship development programs, innovative project competitions, poster presentations and quiz competitions in which they actively participate

**Software Training Programmes:**

- Value-added Programmes in thrust areas such as C, C++, programming in Java, PHP conducted to meet needs of advanced learners.
- Latest software tools are also offered to improve their employability. Continuous efforts are made by the faculty to nurture critical thinking among the students through various strategies.

**NPTEL:**

- We have an approved study centre for NPTEL. The course will provide a strong foundation for the students of various engineering disciplines. The lecture closely linked to the material covered in the TEXTBOOKS.
- The NPTEL certification courses like Design of internet of things, Estimation of wireless MIMO / SENSORS Networks and more offered in our department.

**Academic Events:**

- Various Events are conducted under each subject to get thorough knowledge about the core and essential part of the engineering subjects and also to enrich their experience in future emerging techniques.
- Students participate in events under every engineering subject that will be evaluated and assessed by the concerned subject handling staffs.
- These events mark taken into account the students' internal marks that become an added score to improve their internal marks under each subject.
- Some of the activities conducted under different themes are Simulation
- Hardware Implementation
- Designing the Circuits
- Problem Solving
- Technical Quiz
- Technical Seminar

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

152
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2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Internal assessment question papers are set by the academic group coordinators (not by course instructors) Answer booklets will be verified randomly by the head of the department.
--

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

-	-	-
---	---	---

2.10 Average percentage of attendance of students

83

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
CSE	61	-	63.93	16.39	NA	80.32
ECE	89	3.37	65.16	15.73		84.26
IT	18	-	61.11	16.66		77.7
MECH	59	1.69	52.54	23.72		77.96

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

- The college has standard pedagogical practices. The course file in which the lesson plan, course outcomes, programme outcomes, course delivery details, list of resources developed, etc. are documented, serves as a record of all the academic activities.
- The course files are regularly monitored by the HODs. The effectiveness of the process is then assessed by the IQAC team.
- Year plan preparation helps to achieve the goals.
- Feedbacks were obtained from the students through structured questionnaires related to teaching learning process
- Individual faculty performance appraisal and self-evaluation by faculty is done with a view to assess the faculty effectively.
- Organization of workshops, seminars, staff development activities to promote faculty

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	-
UGC – Faculty Improvement Programme	-
HRD programmes	-
Orientation programmes	-
Faculty exchange programme	-
Staff training conducted by the university	10
Staff training conducted by other institutions	15
Summer / Winter schools, Workshops, etc.	35
Others	13

#### 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	11	-	-	-
Technical Staff	50	-	-	-

## Criterion – III

### 3. Research, Consultancy and Extension

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

- Newer infrastructure and facilities to conduct research
- Improving quality of research through research methodology workshops and review of proposals by appropriate committees.
- Special leave and allowances to attend research workshops, to present research papers and to attend seminars/conferences.

#### 3.2 Details regarding major projects

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

#### 3.3 Details regarding minor projects

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

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	13	--	--
Non-Peer Review Journals	8	--	--
e-Journals	31	--	--
Conference proceedings	31	--	--

#### 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

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	01	-	-	-	-
Sponsoring agencies	College Trust	-	-	-	-

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

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

NSS Special camp  
NSS Day  
Blood Camp  
Eye Camp



## 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	35.3 acres	-		35.3 acres
Class rooms	32	-		32
Laboratories	27	-	KEC	27
Seminar Halls	3	-		3
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				

#### 4.2 Computerization of administration and library

24 Hours High Speed Internet facilities  
 Accounts Department used in Tally EPR-9 Software  
 Wi-fi Facilities Available in college campus.

#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	25430	5086000	1500	300000	26930	5386000
Reference Books	375	75000	25	5000	400	80000
e-Books	450	4850	36	750	486	5600
Journals	50	26050	4	1450	54	27500
e-Journals	145	376934	24	62388	169	439322
Digital Database	KINGSLMS					
CD & Video	786	15720	25	520	811	16220
Others (specify)	--	--	--	--	--	--

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	510	450	10Mbps	20	--	10	25	5
Added	-	-	22Mbps	-	--	--	--	--
Total	510	450	32Mbps	20	--	10	25	5

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

IEEE ACCESS
-------------

4.6 Amount spent on maintenance in lakhs :

i) ICT	2.75
ii) Campus Infrastructure and facilities	16.81
iii) Equipments	--
iv) Others	1.02
<b>Total :</b>	20.58

## Criterion – V

### 5. Student Support and Progression

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

- Student orientation programme is conducted at the beginning of every academic year. The programme disseminates information on the various Student Support Services available in the college.
- Student grievance-alleviation mechanisms like Anti-Ragging Committee are established in the college to support the students.
- Class committee meetings are conducted regularly to address the academic or other classroom activities of the students.
- Alumni meetings are conducted to guide the students in getting placed in top notch companies.
- Parents meetings are conducted by each department to get feedback from the parents.

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

- The examination system has an inbuilt mechanism for monitoring the progression.
- Student performance is monitored through regular assessments.
- Student learning skill can be assessed by conducting academic events.
- Special classes are conducted according to the student's levels.
- Holistic student development is also ensured by monitoring co curricular and extra- curricular activities.
- Individual student counseling is assured through mentors who are allotted 20 students each. The mentors counsel their wards periodically and the information is recorded in the report
- The academic progress report and attendance of all the students are regularly informed to their parents via post.

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

UG	PG	Ph. D.	Others
967	-	-	-

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

6

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

-

Men	No	%	Women	No	%
	557	57.6		410	42.39

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
34	77	0	797	-	908	38	92	-	837	-	967

Demand ratio --- Dropout - 17

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

The department has organized coaching classes for students to take up competitive exams like GATE.

No. of students beneficiaries

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

NET	<input type="text" value="-"/>	SET/SLET	<input type="text" value="-"/>	GATE	<input type="text" value="-"/>	CAT	<input type="text" value="-"/>
IAS/IPS etc	<input type="text" value="-"/>	State PSC	<input type="text" value="-"/>	UPSC	<input type="text" value="-"/>	Others	<input type="text" value="-"/>

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

- Student counseling and career guidance are done through personality and career enhancement course in the curriculum.
- The Placement and Training Department creates awareness about career planning and career mapping among the students.
- Students are given training on soft skills.
- They are also given training in the area of quantitative aptitude, logical reasoning and verbal reasoning. Mock interviews are conducted for the students to perform well in the job interviews. Panel members are invited from corporate sector and the alumni of the college.
- Students are given training on group discussion techniques.
- Online tests and written aptitude tests are also conducted.

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
40	210	186	5

#### 5.8 Details of gender sensitization programmes

- Women welfare committee meeting was held on 05.07.2016 to discuss the safety measures for female students and the events for the academic year.
- A series of special events was conducted for the female students on 4.1.2017 . They are as follows:
  - Quiz competition
  - Tamil Arivom
  - Debugging code
  - Paper presentation and multimedia
- Women's Day celebration 2017 was organized on March, 8th 2017.

## 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	108	40,66,000/-
Financial support from government	431	99,71,250/-
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	-

### 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: Nil.,

## Criterion – VI

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

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

**Vision:**

The Vision of Kings Engineering College is to provide industry relevant technical education, motivate our technocrats to carry out skilful research, encourage innovation and thereby uplift our society through technology.

**Mission:**

- Provide high-quality technical education in the major engineering disciplines through a creative balance of academic, professional and extra-curricular programs.
- Prioritize quality teaching and adopt a variety of approaches and methods to draw upon current research and multiple theories of teaching and learning.
- Guide the students to earn secure careers and become a trendsetter globally.
- Sponsor and educate less privileged with quality technical education.

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

- The MIS is widely implemented in the administration of the institution facilitating easy retrieval of the information regarding academics, examination, finance Department of the institution.
- The academic processes like the student attendance, internal marks, are computerized. User friendly software for the purpose of library management is in place facilitating the maintenance of records relating to the availability of books, books issue/return, etc.

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

##### 6.3.1 Curriculum Development

Curricular gaps are identified in the curriculum and intimated to the university for reframing of syllabus.

##### 6.3.2 Teaching and Learning

- All the faculty of the institution is encouraged to attend various programmes on pedagogy to update themselves in the contemporary and innovative methods of teaching. The widely used teaching and learning methods at the institution are lecture, group discussion, quiz, demonstration, case studies, tutorials, seminar, internship, projects, surveys, computer lab, simulation, field and factory visits, games and role play.
- Students are encouraged to take online courses offered by reputed institutes. In addition to classroom learning, aids like NPTEL, are also available for the students to facilitate learning.

##### 6.3.3 Examination and Evaluation

- The exam cell coordinator organizes the internal Assessment Tests, the University Examination
- The question papers for the internal Assessment are set by the academic coordinators of the department.
- The question papers for the end semester examinations are set by the Anna University.
- The question papers of the internal Assessment are scrutinized by the Head of the department.

- Steps are taken to ensure that the question papers conform to the standards of the Bloom's Taxonomy.
- Evaluation of internal assessment is done based on the course outcomes to which it corresponds.
- The corrected answer scripts are distributed to students by the faculty as per the schedule and discuss the answers for the questions to students in the classroom.
- Marks are entered in the College database, Anna university web portal for future reference and also in counselling records to investigate their performance regularly

#### 6.3.4 Research and Development

The institution provides extensive opportunities to the faculty and students for research and development. Research & Development Committee is formed to encourage and monitor the development activities in academic and sponsored research. The responsibilities of R & DC listed below.

- Motivate Staff & Student to involve in research activities.
- Motivate staff/ Students for paper presentation, article writing & project work etc.
- Motivate staff to publish the research paper in International Conference / Journal
- Arrange lecture on Research methodologies to Staff / Students for creating research awareness

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

##### **Library**

- The central library of the college is a depository of a vast number of learning resources including textbooks, reference books, national and international journals, digital resources, online journals, etc., all of which are enriched every year and software for tracking resource availability and an automated system for book/journal transactions. Additionally, there are departmental libraries to provide easy and quick access of resources to students.

##### **ICT:**

- There are adequate ICT facilities in the institution and well established policies for their deployment and maintenance.
- Wi-Fi facilities and broad band internet facilities in the premises of the college and hostel are provided thereby ensuring free access to current industrial and technological trends.
- The institution deploys and employs ICTs for a range of activities like lecturing in every department.
- Keeping pace with the rapid advancements in technology and to benefit the students, the college has set up a portable/mounted LCD projector in all classrooms.
- All the computer labs, multimedia language lab and science labs provide opportunities for hands-on training in ICT modules.

##### **Physical Infrastructure / Instrumentation:**

- Project and innovation labs in the department
- Digital library
- Adequate numbers of fire extinguishers at vantage points are kept and the staff and students are trained to handle it.

### 6.3.6 Human Resource Management

The heads of the departments communicate a requisition to the management through the principal of the institution as and when vacancies arise in the department. The management advertises and follows a systematic procedure in recruiting teaching and non-teaching staff. Orientation and training programmes are organized periodically for the recruits. Faculty development programmes, workshops, conferences, industrial visits, seminars, etc. are organized and the faculty are encouraged to participate in similar programmes organised by other institutions, industries, etc.

### 6.3.7 Faculty and Staff recruitment

- Through advertisement in newspaper and websites
- Conduct of interview by selection process

### 6.3.8 Industry Interaction / Collaboration

- Signing of MOUs with industries for research projects, consultancy, placement, internship and interactive sessions like seminars, and workshops take place.
- Mutually-beneficial activities (based on the MOUs) are organized in every department for every semester.

### 6.3.9 Admission of Students

Merit based on marks scored in the higher secondary examination

### 6.4 Welfare schemes for

Teaching	--
Non teaching	--
Students	Scholarships

### 6.5 Total corpus fund generated

-

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	Committee
Administrative			Yes	Committee

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?

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

- Guest lecturers by experienced alumni are organised for students.
- Skill-based training to students to meet industry needs is conducted.
- Mock interviews are conducted for the final year students through the association.

6.12 Activities and support from the Parent – Teacher Association

- The goal of parents-teacher meeting is to bring together the interests of parents and the college to support student progression.
- Each department organizes parents-teachers meeting periodically and provides an opportunity for parents to discuss the academic performance of their wards with the faculty concerned. The departmental activities are presented to the parents.
- Students performance is informed periodically to the parents through post service.
- Faculty advisors take the responsibility of individual student's performance and periodically update it to parents.

6.13 Development programmes for support staff

Conducted Software Demo Classes for supporting staffs

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

- The institution has a green environment with several trees to maintain the ecology of the place.
- The bulbs with higher voltage are replaced with LED bulbs.
- Rain water harvesting is adopted in the college and hostel.

## 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.

- Initially, appraisal of staff was done by HODs.
- Students are provided with opportunities to learn through lecture sessions by experts in different fields through NPTEL.
- Lectures, assignments, videos, animation and quizzes are uploaded and posted on the Blackboard platform.

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	Achievements
Conduct a national conference, seminars and guest lectures	International conference: 1 Seminar – 10 Guest Lecture -7
Conduct academic audits	Continuous monitoring of teaching learning process. Institute industrial interaction
Monitor student performance and counsel each student individually	In addition to regular counselling of students, special counselling session along with parents were conducted for slow learners and poor performers in internal tests and exams.

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

Special Courses  
Academic Events

7.4 Contribution to environmental awareness / protection

- Dense plantation and landscaping on the campus
- Hazardous waste managed safely
- Eco-friendly papers used for documentation
- Segregation of waste at source.
- Awareness to the staff and students on environment cleanliness

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**

- Dispensing quality education to economically poor students.

**Weakness**

- No Post Graduate engineering courses.

**Opportunity**

- Bridge between curricular & special courses

**Challenges**

- Creating a balance between academic, research and extension activities.

8. Plans of institution for next year

- > Starting PG courses.
- > Planning for new course in UG programme

Name B. Anitha Vijaya Lakshmi

Name \_\_\_\_\_





*Signature of the Coordinator, IQAC*

*Signature of the Chairperson, IQAC*

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**Dr. A.V. MAYAKANNAN, M.E., Ph.D.**  
Principal  
Kings Engineering College,  
Irungattukottai, Sriperumbudur - 602 117.



## ANNEXURE – I

### Academic Calendar

#### III, V & VII SEMESTER ACADEMIC SCHEDULE : JULY 2016 TO OCTOBER 2016

July			August			September			October		
Date	Day	Event	Date	Day	Event	Date	Day	Event	Date	Day	Event
1	Fri		1	Mon	Academic Event - I	1	Thu	RegularClass-48	1	Sat	RegularClass-72
2	Sat		2	Tue	Academic Event - I	2	Fri	RegularClass-49	2	Sun	Holiday
3	Sun		3	Wed	Academic Event - I	3	Sat	RegularClass-50	3	Mon	Academic Event - II
4	Mon	Re Opening Day	4	Thu	MODEL EXAM -1	4	Sun	Holiday	4	Tue	Academic Event - II
5	Tue	RegularClass-2	5	Fri	MODEL EXAM -1	5	Mon	Vinayagar Chathurthi	5	Wed	Academic Event - II
6	Wed	RegularClass-3	6	Sat	MODEL EXAM -1	6	Tue	RegularClass-51	6	Thu	RegularClass-76
7	Thu	RegularClass-4	7	Sun	Holiday	7	Wed	RegularClass-52	7	Fri	RegularClass-77
8	Fri	RegularClass-5	8	Mon	MODEL EXAM -1	8	Thu	RegularClass-53	8	Sat	RegularClass-78
9	Sat	RegularClass-6	9	Tue	MODEL EXAM -1	9	Fri	RegularClass-54	9	Sun	Holiday
10	Sun	Holiday	10	Wed	MODEL EXAM -1	10	Sat	RegularClass-55	10	Mon	Pooja Holiday
11	Mon	RegularClass-7	11	Thu	RegularClass-32	11	Sun	Holiday	11	Tue	Pooja Holiday
12	Tue	RegularClass-8	12	Fri	RegularClass-33	12	Mon	Academic Event - II	12	Wed	RegularClass-79
13	Wed	RegularClass-9	13	Sat	RegularClass-34	13	Tue	Academic Event - II	13	Thu	MODEL EXAM -3
14	Thu	RegularClass-10	14	Sun	Holiday	14	Wed	Academic Event - II	14	Fri	MODEL EXAM -3
15	Fri	RegularClass-11	15	Mon	Independence Day	15	Thu	MODEL EXAM -2	15	Sat	MODEL EXAM -3
16	Sat	Holiday	16	Tue	RegularClass-35	16	Fri	MODEL EXAM -2	16	Sun	Holiday
17	Sun	Holiday	17	Wed	RegularClass-36	17	Sat	MODEL EXAM -2	17	Mon	MODEL EXAM -3
18	Mon	RegularClass-12	18	Thu	RegularClass-37	18	Sun	Holiday	18	Tue	MODEL EXAM -3
19	Tue	RegularClass-13	19	Fri	RegularClass-38	19	Mon	MODEL EXAM -2	19	Wed	MODEL EXAM -3
20	Wed	RegularClass-14	20	Sat	Holiday	20	Tue	MODEL EXAM -2	20	Thu	
21	Thu	RegularClass-15	21	Sun	Holiday	21	Wed	MODEL EXAM -2	21	Fri	
22	Fri	RegularClass-16	22	Mon	RegularClass-39	22	Thu	RegularClass-65	22	Sat	
23	Sat	RegularClass-17	23	Tue	RegularClass-40	23	Fri	RegularClass-66	23	Sun	Holiday
24	Sun	Holiday	24	Wed	RegularClass-41	24	Sat	Holiday	24	Mon	
25	Mon	RegularClass-18	25	Thu	RegularClass-42	25	Sun	Holiday	25	Tue	
26	Tue	RegularClass-19	26	Fri	RegularClass-43	26	Mon	RegularClass-67	26	Wed	
27	Wed	RegularClass-20	27	Sat	RegularClass-44	27	Tue	RegularClass-68	27	Thu	
28	Thu	RegularClass-21	28	Sun	Holiday	28	Wed	RegularClass-69	28	Fri	
29	Fri	RegularClass-22	29	Mon	RegularClass-45	29	Thu	RegularClass-70	29	Sat	Deepavali
30	Sat	Holiday	30	Tue	RegularClass-46	30	Fri	RegularClass-71	30	Sun	Holiday
31	Sun	Holiday	31	Wed	RegularClass-47				31	Mon	

## ANNEXURE – II

### FEED BACK ANALYSIS

SECOND YEAR-THIRD SEMESTER ATTAINMENT LEVEL							
S.NO	QUESTIONS	ECI	DE	SS	EE&I	DS&OOPS	TPDE
1	Punctuality with regularity in taking the classes	90	83.63	83.63	90	83.63	84.54
2	Attitude and presentation in the class	83.63	83.63	87.27	90	83.63	80.9
3	Preparation for the classes	85.45	87.27	90	83.63	87.27	87.27
4	Coverage of the syllabus.	85.45	84.54	83.63	85.45	90	83.63
5	Inspiration or encouragement to students towards subject improvements.	83.63	83.63	85.45	85.45	83.63	83.63
6	Clearing doubts inside/outside the class	83.63	90	85.45	84.54	85.45	87.27
7	Explanation with respect to the practical aspect of the subject	87.27	83.63	83.63	80.9	85.45	90
8	Discussion on test questions	84.54	85.45	83.63	87.27	84.54	83.63
9	Valuation and return of answer scripts in reasonable time	80.9	85.45	87.27	83.63	80.9	85.45
10	General relationship with the students	87.27	83.63	90	87.27	87.27	85.45

