

# **ANNUAL QUALITY ASSURANCE REPORT**

**2012-13**

**Submitted to**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**



**K.S.RANGASAMY COLLEGE OF TECHNOLOGY**

**(An Autonomous Institution, Affiliated to Anna University,  
Chennai and Accredited with 'A' Grade by NAAC)**

**TIRUCHENGODE – 637215  
NAMAKKAL DISTRICT, TAMIL NADU**

**APRIL - 2014**

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

### PART – A

#### 1. Details of the Institution

1.1 Name of the Institution

K.S.Rangasamy College of Technology

1.2 Address Line 1

K.S.R. Kalvi Nagar

Address Line 2

Thokkavadi (PO)

City/Town

Tiruchengode

State

Tamil Nadu

Pin Code

637 215

Institution e-mail address

principal@ksrct.ac.in

Contact Nos.

04288 - 274741, 274742, 274743, 274744

Name of the Head of the Institution:

Dr. K.THYAGARAJAH

Tel. No. with STD Code:

04288 - 274748

Mobile:

96294 -22224

Name of the IQAC Co-ordinator:

Mobile:

IQAC e-mail address:

1.3 NAAC Track ID  
(For ex. MHC0GN 18879)

1.4 NAAC Executive Committee No. & Date:

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	3.21	2012	2017

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

1.8 AQAR for the year (for example 2010-11)

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

Not Applicable

#### 1.10 Institutional Status

University State  Central  Deemed  Private

Affiliated College Yes  No

Constituent College Yes  No

Autonomous college of UGC Yes  No

Regulatory Agency approved Institution Yes  No

(e.g. AICTE, BCI, MCI, PCI, NCI) : 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

#### 1.11 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (Phys Edu)

TEI (Edu)  Engineering  Health Science  Management

Others (Specify)

1.12 Name of the Affiliating University (*for the Colleges*) Anna University, Chennai

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

Autonomy by State/Central Govt. / University UGC & University

University with Potential for Excellence

UGC-CPE

DST Star Scheme

UGC-CE

UGC-Special Assistance Programme

DST-FIST

UGC-Innovative PG programmes

Any other (*Specify*)

UGC-COP Programmes

## 2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="50"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="02"/>
2.3. No. of students	<input type="text" value="12"/>
2.4. No. of Management representatives	<input type="text" value="02"/>
2.5. No. of Alumni	<input type="text" value="12"/>
2.6. No. of any other stakeholder and community representatives	<input type="text" value="03"/>
2.7. No. of Employers/ Industrialists	<input type="text" value="03"/>
2.8. No. of other External Experts	<input type="text" value="03"/>
2.9. Total No. of members	<input type="text" value="87"/>
2.10. No. of IQAC meetings held	<input type="text" value="02"/>
2.11. No. of meetings with various stakeholders:	No. <input type="text" value="2"/> Faculty <input type="text" value="2"/>
	Students <input type="text" value="2"/> Alumni <input type="text" value="2"/> Others <input type="text" value="2"/>
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" value="Nil"/>
2.13. Seminars and Conferences (only quality related)	
(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC	
Total Nos.	<input type="text" value="1"/> International <input type="text" value="-"/> National <input type="text" value="-"/> State <input type="text" value="-"/> Institution Level <input type="text" value="1"/>
(ii) Themes	<input type="text" value="OBE (Outcome Based Education) – Teaching Learning Process"/>

2.14. Significant Activities and contributions made by IQAC

- Quality Awareness Workshop Organized
- Overall result of the institution improved
- Number of research projects increased
- Number of publications by the faculty improved
- Faculty turnover ratio is below 10%

2.15. Plan of Action by IQAC/Outcome

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

Plan of Action	Achievements
To initiate activities to encourage faculty to take up minor and major research projects	Number of Projects Sanctioned : 04 Number of Projects Submitted : 28
To promote research publications	International Journal : 136 National Journal : 11 International Conferences : 108 National Conferences : 48 Books Published : 13
To conduct national seminars and workshops to facilitate academic growth of faculty and students	National Level : 18 State Level : 07 Institutional Level : 05
To use ICT in teaching and learning	<ul style="list-style-type: none"> <li>• Automation of academic activities</li> <li>• Maintenance of faculty profile</li> <li>• On-line course content development</li> <li>• Knowledge sharing through Moodle Software</li> </ul>

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

**Refer Annexure I**

2.15. Whether the AQAR was placed in statutory body Yes  No

Management  Syndicate  Any other body

Provide the details of the action taken

- ❖ The IQAC meets once in six month and discusses various matters relating to Curriculum changes and developments to the current needs.
- ❖ It reviews the progress made on the proposals made in the previous meetings.
- ❖ The outcomes are recorded for improving the quality assurance system.
- ❖ The plans of the IQAC are placed in the meetings of the Board of Studies, Standing Committee and Academic Council for further discussion and finally placed in the Governing Body meeting for its implementation

**PART – B**  
**CRITERION – I**

**1. 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	14	-	14	-
PG	14	-	14	-
UG	10	-	10	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
<b>Total</b>	38	-	38	-

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	24
Trimester	Nil
Annual	Nil

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*

**Refer Annexure - II**

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

<ul style="list-style-type: none"> <li>❖ Discussions with subject experts, feedback from the current students, inputs from the Alumni and suggestions from Industrialists and Corporates are taken into consideration for reviewing the existing programmes.</li> <li>❖ All courses have undergone syllabus revision whenever required.</li> <li>❖ Syllabus revision held in 2008 and 2010.</li> </ul>
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1.5 Any new Department/Centre introduced during the year. If yes, give details.

Nil

### CRITERION – II

#### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
429	302	70	44	13

2.2 No. of permanent faculty with Ph.D.

55

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
32	30	-	-	-	-	-	-	32	30

2.4 No. of Guest and Visiting faculty and Temporary faculty

-	-	-
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	22	19	21
Presented papers	22	19	21
Resource Persons	15	39	32

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

Outcome Based Education (OBE)  
Online courses using Moodle

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)

- ❖ Assignments and tutorials are emphasised.
- ❖ Weightage for assignments, tutorials and attendance in internal assessment.
- ❖ Question paper pattern is changed to improve the learning process
- ❖ Course-wise experts are appointed for evaluation

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

139

139

139

2.10 Average percentage of attendance of students

85

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.E. MECH	124	34	80	1	-	92.74
B.E. EEE	132	47	72	1	-	90.9
B.E. ECE	132	49	72	4	-	94.69
B.E. CSE	131	37	73	0	-	83.96
B.E. MCT	118	22	83	0	-	88.98
B.E. CE	123	13	95	1	-	88.62
B.E. EIE	62	13	44	0	-	91.93
B. Tech. IT	125	30	77	0	-	85.6
B. Tech. TT	66	6	39	0	-	68.18
B. Tech. BT	43	13	28	0	-	95.35
B.Sc. (AFT)	15	3	5	0	-	53.33
B.Sc.(CT)	53	4	29	3	-	67.92
B.Sc. (IT)	24	4	9	0	-	54.17
M.E. (ED)	14	-	11	1	-	85.71
M.E. (CAD)	13	-	11	0	-	84.62
M.E. (PED)	18	8	10	0	-	100
M.E. (AE)	25	2	20	0	-	88
M.E. (VLSI)	18	2	12	3	-	94.44
M.E. (CSE)	28	5	21	2	-	100
M.E. (ISE)	18	9	9	0	-	100
M.E. (PSE)	16	3	13	0	-	100
M.E. (SE)	16	5	11	0	-	100
M. Tech (NST)	14	8	6	0	-	100
M. Tech (IT)	19	4	15	0	-	100
MBA	164	1	126	29	-	95.12
MCA	92	25	66	0	-	98.91
M.Sc. (IT)	57	8	41	0	-	85.96
M.Sc. (BT)	9	1	7	0	-	88.89
M.Sc. (SE)	31	4	22	3	-	93.55

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

The IQAC of the institution contributes, monitors and evaluates the Teaching & Learning processes by way of conducting periodical meetings. The outcomes of various proposals are recorded for improving the system of quality of education. It also decides on the measures to be taken to improve and sustain the quality of education

### 2.13 Initiatives undertaken towards faculty development

<b>Faculty / Staff Development Programmes</b>	<b>Number of faculty benefitted</b>
Refresher courses	34
UGC – Faculty Improvement Programme	-
HRD programmes	-
Orientation programmes	02
Faculty exchange programme	-
Staff training conducted by the university	23
Staff training conducted by other institutions	39
Summer / Winter schools, Workshops, etc.	72
Others	-

### 2.14 Details of Administrative and Technical staff

<b>Category</b>	<b>Number of Permanent Employees</b>	<b>Number of Vacant Positions</b>	<b>Number of permanent positions filled during the Year</b>	<b>Number of positions filled temporarily</b>
Administrative Staff	110	02	07	-
Technical Staff	124	04	12	-

## **CRITERION – III**

### **3. Research, Consultancy and Extension**

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

- ❖ The IQAC meets regularly to discuss various plans to promote research climate and motivate the faculty for academic advancement.
- ❖ It tracks the schemes of the UGC and other agencies like AICTE, CSIR, DST, ICSSR etc. for getting funded projects
- ❖ The IQAC of the institution encourages the staff members to undertake major and minor research projects and to organize seminars, workshops and conferences, etc.
- ❖ The staff and students are informed about the various fellowships available and they are encouraged to apply for the same.

### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	03	14	04	75
Outlay in Rs. Lakhs	20.13	187.43	29.45	-

### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	1	-	-
Outlay in Rs.	-	18,856	18,856	-

### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	136	11	-
Non-Peer Review Journals	-	-	-
e-Journals	32	-	-
Conference proceedings	108	48	-

### 3.5 Details on Impact factor of publications:

Range  Average  h-index  Nos. in SCOPUS

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

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned Rs	Received Rs
Major projects	3	AICTE,,BRNS	29,45,728	1472864
Minor Projects	1	NTRF	18,856	18,856
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	-	-	-	-
Students research projects (other than compulsory by the University)	-	-	-	-
Any other(Specify)	-	-	-	-
Total			29,64,584	14,91,720

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	1	4	-	-	1
Sponsoring agencies	-	AICTE	-	-	Institution

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	19
	Granted	01
International	Applied	03
	Granted	01
Commercialised	Applied	03
	Granted	03

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
07	01	04	01	-	-	01

3.18 No. of faculty from the Institution who are Ph. D. Guides

28

Students registered under them

148

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

13

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	<input type="text" value="03"/>	State level	<input type="text" value="05"/>
National level	<input type="text" value="02"/>	International level	<input type="text" value="-"/>

3.25 No. of Extension activities organized

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

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

- ❖ The college encourages the faculty and students to take up various activities relating to extension and social responsibilities.
- ❖ Apart from the regular work, a number of faculty and students actively take part in various social activities through NSS, NCC, YRC, RRC, Blood Donors Club and Alumni Association.
- ❖ The college ensures the involvement of the staff and students in its outreach activities such as Blood Donation camps, HIV-AIDS Awareness, Road Safety Awareness, Rain Water Harvesting Awareness, Anti-Tobacco Awareness, and contributes to the community development through various co-curricular forums and the Alumni association.
- ❖ Parents association and Alumni association offer constructive suggestions regarding outreach programmes.
- ❖ The college initiated the community people to contribute to the community development by incorporating them as members of various committees.
- ❖ The college conducted two exhibition cum sale for products of Self Help Group members.
- ❖ Creating interest on young generation in basic sciences by organising INSPIRE



## 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	28.05 acres	-	-	28.05 acres
Class rooms	169	19	-	-
Laboratories	127	10	-	-
Seminar Halls	12	02	-	-
No. of important equipment purchased ( $\geq$ 1-0 lakh) during the current year.	150	14	Institution	164
Value of the equipment purchased during the year (Rs. in Lakhs)	77,50,00,000	61,66,757	Institution	78,11,66,757
Others	-	-	-	-

#### 4.2 Computerization of administration and library

<ul style="list-style-type: none"><li>❖ KSRCTCMS – College Management System</li><li>❖ KSRCTLMS – Library Management System</li><li>❖ Use of OPAC software in library</li><li>❖ Total computerised result processing of examinations</li></ul>
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#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value (Rs)	No.	Value (Rs)	No.	Value (Rs)
Text Books	9141	2395256	6193	1511678	15334	3906934
Reference Books	300	300000	250	237500	550	537500
e-Books	2063	177035	2063	177035	4126	354070
Journals	303	756663	300	554632	603	1311295
e-Journals	7351	2488170	7261	2412683	14612	4900853
Digital Database (NPTEL)	218	1,00,000	314	-	314	100000
CD & Video	4641	-	872	-	5513	-

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1793	1170	10mpbs	120	360	50	93	-
Added	142	-	20 mpbs	60	19	5	58	-
Total	1935	1170	30 mpbs	180	379	55	151	-

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

- ❖ The faculty members and students of the college are provided with computer, internet, audio-visual aids and computer aided packages to facilitate teaching, learning and e-governance.
- ❖ The Library has been computerised all its housekeeping operations using in house development library software that is well maintained and updated regularly. NPTEL video and web courses are also available. It uses the state-of-the-art technology in its function and services.

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

i) ICT	155.12
ii) Campus Infrastructure and facilities	2861.45
iii) Equipment	73.24
iv) Others	270.13
<b>Total:</b>	<b>3359.94</b>

### CRITERION – V

#### 5. Student Support and Progression

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

- ❖ Student members of the IQAC are encouraged to come out with their views and suggestions for the enhancement of quality of the institution.
- ❖ IQAC provides information about various Student Support Services available at the institution and other levels.

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

- The institution monitors and ensures the achievements of the learning outcome through analysis of the tests, examination results and the pass percentage arrived at in the Result Passing Board Meeting.
- Separate cell is formed to monitor, counsel and coach the academically weak students.

### 5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
4775	1262	133	-

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

UG - 37  
PG - 34

### (c) No. of international students

-

Men	No	%	Women	No	%	= 6037
	3989	66.07		2048	33.92	

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
334	547	18	4917	-	5816	277	575	9	5174	2	6037

Demand ratio 1:1

Dropout: 0.4 %

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

The institute offers coaching classes for GATE, GRE, TOFEL, TNPSC, UPSC and TANCET exams.

No. of students beneficiaries

186

### 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="11"/>	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="45"/>

### 5.6 Details of student counselling and career guidance

<p><b>Counselling</b></p> <ul style="list-style-type: none"> <li>❖ The students are counselled for absenteeism, poor performance and indisciplinary activities.</li> </ul> <p><b>Career Guidance</b></p> <ul style="list-style-type: none"> <li>❖ Career guidance is provided to students on higher studies and placement.</li> </ul>
---

No. of students benefitted

### 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
<b>Number of Organizations Visited</b>	<b>Number of Students Participated</b>	<b>Number of Students Placed</b>	<b>Number of Students Placed</b>
77	1046	628	209

### 5.8 Details of gender sensitization programmes

<ul style="list-style-type: none"> <li>❖ The Women Empowerment Cell conducted four programmes on various issues relating to gender problems.</li> <li>❖ Professional counsellors are invited to conduct programmes for women staff and students</li> <li>❖ The cell works under a faculty in charge. It has representation from staff and students and conducts lectures and seminars to create awareness about gender equality.</li> <li>❖ Professional counseling is also provided to girl students whenever required.</li> </ul>
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### 5.9 Students Activities

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

State/ University level

National level

International level

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 (Rs)
Financial support from institution	13	2,60,000
Financial support from government	2605	3,36,25,550
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:** To produce the most competent Scientists, Engineers, Technologists, Entrepreneurs, Managers and Researchers through quality Education.

**Mission:** To achieve academic excellence in Science, Engineering, Technology, Management and Research through objective and innovative teaching methods; dedicated and duty conscious faculty; continual and consistent updation of facilities; welfare and quality improvement of the faculty and a system of continual process improvement.

## 6.2 Does the Institution has a management Information System

Yes

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

### 6.3.1 Curriculum Development

The meetings of the Board of Studies are conducted every year. The ideas obtained from the various bodies is thoroughly discussed by the experts in the academic bodies and incorporated in the curriculum. Besides industry requirements are also considered while framing the curriculum. Outcome Based Education (OBE) system is taken into consideration

### 6.3.2 Teaching and Learning

- Learning in all courses is made more student-centric. The ICT enabled learning is given priority in teaching and learning methods.
- The college creates a culture of instilling and nurturing creativity and temper among the learners through various academic activities.
- It has a feedback mechanism to evaluate the teachers and the feedback is reviewed every year.

### 6.3.3 Examination and Evaluation

- ❖ Assignments and tutorials are emphasised.
- ❖ Weightage for assignments, tutorials and attendance in internal assessment.
- ❖ Question paper pattern is changed to improve the learning process
- ❖ Course-wise experts are appointed for evaluation

### 6.3.4 Research and Development

The institute offers Incentives for journal publication, Conferences participation, funded projects and consultancy

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

- ❖ Opportunities for interdisciplinary research
- ❖ Providing the state of the facilities for R&D
- ❖ The budget for library is increased year on year (Rs. 65 Lakhs)

### 6.3.6 Human Resource Management

- The institution has sincere, dedicated and committed faculty and Visionary management.
- Staff members have the opportunity to pursue part-time PhD and ME course.
- Besides Various workshops and training programs are organised through HRD Cell for the benefit of staff members.
- Deputation of faculty for FDPs, Conferences and Workshops.

### 6.3.7 Faculty and Staff recruitment

- Assessment of Faculty Requirement
  - AICTE Norms
  - New Programmes/New Courses Introduced
  - Qualified faculty to enhance R&D Activities
- Process
  - Advertisement in leading Dailies
  - Scrutiny of Resume and calling for Interview based on
    - Qualification
    - Experience
  - Constitution of Selection Panel
    - Chairman
    - Principal
    - Subject Expert(s)
    - HOD
  - Personal Interview
  - Issue of Orders

### 6.3.8 Industry Interaction / Collaboration

The college has collaboration with CII, MMA and with a number of industries where the students undertake industrial visits, projects and undergo industrial training.

### 6.3.9 Admission of Students

- Admission of students to various courses is based on merit and is transparent.
- Efforts are made to ensure that all students seeking admission to the various courses stay informed through different modes of publicity.
- The college has developed its own website for the convenience of students seeking admission to the college.

Course	Govt. Quota	Management Quota
UG	65%	35%
PG	50%	50%

#### Quota Wise Reservation and Eligibility Criteria

Category	% of Reservation	% in Qualifying Examinations
OC	31	50
BC	30	45
MBC	20	40
SC/ST	19	40

6.4 Welfare schemes for

Teaching	Group Insurance schemes, Hospital and Ambulance, transport facility, vacation, maternity leave and PF facilities
Non teaching	Group Insurance schemes, Hospital and Ambulance, transport facility, vacation, maternity leave and PF facilities
Students	Group Insurance schemes, Hospital and Ambulance and transport facilities

6.5 Total corpus fund generated

Rs.150 Crores

6.6 Whether annual financial audit has been done

Yes

No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	UGC, AICTE, ISO-TUV, NBA, NAAC	Yes	Academic Review Committee, IQAC
Administrative	Yes	-	Yes	Various Committees

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?

- ❖ Assignments and tutorials are emphasised.
- ❖ Weightage for assignments, tutorials and attendance in internal assessment.
- ❖ Question paper pattern is changed to improve the learning process
- ❖ Course-wise experts are appointed for evaluation



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

The University nominates members for Board of Studies, Academic Council, Governing Body and Result Passing Board.

6.11 Activities and support from the Alumni Association

- The Alumni contributes various services to the institution in general and to the students opting for higher studies and getting employment in particular.
- Every year alumni meet is organised by the departments.
- Alumni album is created and distributed to all the outgoing students.

6.12 Activities and support from the Parent – Teacher Association

Parents regularly express their valuable suggestions for the development of the students through Parents Meet and the suggestions are implemented.

6.13 Development programmes for support staff

- The institute conducts training programmes for technical and non teaching staffs.
- Incentives are given on completion of training and certification courses.
- Technical staffs are encouraged to go for higher studies and certification courses.

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

- Energy Conservation
- Use of renewable energy
- Water harvesting
- Plantation
- Hazardous waste management
- Landscaping
- Sewage Treatment Plant

## 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.

- CTCMS – Computerised college management system wherein data can be retrieved easily.
- Moodle software knowledge sharing system wherein the staff members are preparing and posting class notes, assignments in online.

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

IQAC planned the objectives for current year (2012-13) and its progress was monitored through action taken report from all concerned persons. In its meeting these action taken reports were discussed and correction was done appropriately whenever it was required

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

The college follows a number of best practices and foremost among them are:

- Outcome Based Education
- Moodle software Knowledge sharing system

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

**Refer Annexure III**

7.4 Contribution to environmental awareness / protection

The following are the various eco-friendly measures conducted by the institute.

- Energy Conservation
- Use of renewable energy
- Water harvesting
- Plantation
- Hazardous waste management
- Landscaping
- Sewage Treatment Plan

7.5 Whether environmental audit was conducted?

Yes  No

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

**SWOT Analysis**

SWOT analysis is done internally and Strengths and weaknesses identified are as follows:

**Strengths**

- Autonomous Institution
- Good staff student ratio
- 100% faculty involvement
- Residential campus
- Technology utilization
- Healthcare facilities
- Alumni

**Weakness**

- Students are from rural background
- Industry collaboration
- Student fellowships
- Interdisciplinary projects

**Opportunity**

- Curriculum development
- Faculty development programs
- New PG programs
- R&D and consultancy activities
- Employability of students in emerging core industries
- Funding from funding agencies

**Threats**

- Geographical location
- Competition among developing institutions

## 8. Plans of institution for next year

To become an institution of relevance, the following centres of potential research are thought of and steps are taken to establish in the coming years.

- Centre for Sustainable Energy Studies
- Centre of Hybrid Energy System
- Centre for Wireless Networking
- Centre for Cloud Computing
- Centre for Information Processing
- Centre for Low cost Automation and Intelligent Systems
- Centre for Environmental Technology
- Centre for Microbial Biotechnology
- Centre for Nano Science and Technology
- Centre for Interdisciplinary Projects

### **Strategic Plan.**

- Providing state of Art facilities for self learning
- Creating Ambience for Interdisciplinary activities including Research with Science departments
- Creating incubation centres involving industries with departments
- Involving industries to participate in delivering course contents to enhance placement opportunities
- Providing Conducive atmosphere for sustainable growth of Staff and Institution.

Name 1. Dr.M.Vijayakumar



2. Mr.M.Christopher



Name Dr.K.Thyagarajah



Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

PRINCIPAL,

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**ANNEXURE – I**  
**ACADEMIC CALENDAR 2012-2013**

<b>S.No</b>	<b>Details</b>	<b>Proposed Month</b>
1.	Meeting for setting quality parameters for various academic activities	May 2012
2.	Academic Audit	After I and II Test
3.	Submission of funding proposal	October 2012 & February 2013
4.	Management Review Meeting	September 2012 & April 2013

## ANNEXURE – II

### FEEDBACK FROM STAKEHOLDERS

The college has formal and informal mechanisms to obtain feedback from Alumni, Parents, Students and Employers through various committees, associations, meetings, etc. as given below.

- Feedback from students is collected through online feedback system.
- Suggestions from employers are collected through periodical meetings.
- Feedback from Alumni is collected through video conferencing, personal meetings, alumni meet.
- Feedbacks from parents are collected through parents meet.
- The Students, Alumni and Employers are included as members of various bodies (Board of Studies/IQAC/Committees/Advisory Bodies).

#### **Alumni Feedback**

- ❖ 70% of the alumni are employed.
- ❖ The average salary of the alumni is Rs. 15000.
- ❖ 20% of the alumni have opted for higher studies.
- ❖ 60% of the alumni are able to use modern tools and technologies in their organisations.
- ❖ Alumni have suggested improvements in curriculum and content delivery.

#### **Employer Feedback**

- ❖ 75% of the alumni are occupying key positions in various organisations.
- ❖ Alumni are adoptable to diversified working team.
- ❖ Alumni are successful in new areas of professional development and adaptable to technological changes.
- ❖ Alumni are contributing towards organisational growth.

#### **Parents Feedback**

- ❖ Coaching classes for slow learners and academically weak students.
- ❖ Training programme for improving student's employability skills for placement.
- ❖ Improvement in core engineering placement
- ❖ Coaching classes for competitive examinations.
- ❖ Value added courses to improve placement.

#### **Students Feedback**

- ❖ Students are satisfied with institutional infrastructure.
- ❖ Students are satisfied with the content delivery, faculty approach and faculty expertise.
- ❖ Students are expecting more practical approach in teaching learning process
- ❖ Students are expecting more coaching classes for competitive examinations
- ❖ Students are expecting more core engineering placement.

## **ANNEXURE – III**

### **BEST PRACTICES**

#### **(i) Outcome Based Education**

**Teaching and Learning Process** – The desired outcome is selected first and the curriculum, instructional materials and assessments are created to support the intended outcome.

**Curriculum and Planning** – The learning outcomes are set out sequentially on a gradation of increasing complexity that students are expected to master.

**Assessment Tools** – OBE focuses on how much and how well the students have learnt

#### **Implementing OBE**

There are five prongs involved in implementing OBE

1. Vision and Mission of the Institution
2. Vision and Mission of the department
3. Listing and achieving Programme Educational Objectives (PEOs).
4. Listing and achieving Programme Outcomes (Pos)
5. Listing and achieving Course Outcomes (Cos)

#### **(ii) Online Course using Moodles Software:**

Moodle is a learning platform designed to provide educators, administrators and learners with a single robust, secure and integrated system to create personalised learning environments.