

Annual Quality Assurance Report (AQAR) of the IQAC

Rajagiri School of Engineering & Technology

Year of the Report: 2009-10

PART - A

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.

The overall plan of action for Internal Quality enhancement during the year 2009-10 is mentioned below:

- To initiate new post graduate courses in Computer science and information system, Signal Processing, VLSI design and embedded systems, Industrial drives and control
- Encourage and support faculty to make more effective use of laptops in their teaching
- Motivate the faculty to identify their research area and register for PhD
- Encourage the faculty to publish their research papers in National/International journals
- Improve the department association activities
- Improve the department library
- To evolve some MOU's in consultancy work
- Explore avenues for industry-institute interaction
- Conduct workshops and conferences so as to enhance knowledge base and facilitate knowledge transfer
- To organize more number of seminars/guest lectures
- To encourage the students in Social service activities
- Encourage engineering professional bodies' activities

PART - B

1. Activities reflecting the goals and objectives of the Institution:

- **To initiate new post graduate courses in Computer science and information system, Signal Processing, Industrial drives and control, VLSI design and embedded systems.**
 - Two new PG programs were introduced : VLSI design and embedded systems and Computer science and information system

- **Motivate the faculty to identify their research area and register for PhD**
 - Two day Indo-German dialogue on Accelerated Dissemination of Solar Energy Technologies – Educational & research perspectives (ADSET 2010) – March 4 & 5, 2010
 - Rajagiri Research & Consultancy Center (RRCC) was inaugurated by Mr. George Koshy Project Director, PSLV, VSCC on January 19, 2009
 - RRCC organized research lectures during the period
 - A Few faculty members have published their papers in International Journals

- **Improve the department association activities**
 - Department association has initiated some activities and few talks on the current trends

- **To evolve some MOU's in consultancy work**
 - February 2009 – MoU was signed with V-Guard Industries Ltd and Acradelon Technologies to facilitate knowledge sharing and improving the curriculum content

- **Explore avenues for industry-institute interaction**

- January 19, 2009 – Mr. George Koshy, Project Director, PSLV, VSCC delivered lecture on ‘Chandrayaan’ as part of Rajagiri Distinguished Lecture Series
 - March 2, 2009 – Mr. S. Gopalakrishnan, CEO & MD, Infosys Technologies – delivered lecture on Managing Recession – Challenges ahead for India Inc.
 - August 8, 2009 – Dr. Murali Krishnan, Asst Professor, NIT Kozhikode delivered a talk on ‘Computability’
 - September 16, 2009 – Dr. Subir Ghosh delivered a talk on ‘Introduction to Computational Geometry’
 - November 12, 2009 – Dr. Bogdan Ghita, University of Plymouth, UK delivered a presentation covering the evolution and the current status of the internet
 - November 20, 2009 – Dr. V.G. Idichandy, Deputy Director, IIT Madras, interacted with faculty members
 - December 16, 2009 – Prof. Ajay Gupta, Department of Computer Sciences, Western Michigan University, interacted with faculty and students
- **Conduct workshops and conferences so as to enhance knowledge base and facilitate knowledge transfer**

The following workshops and conferences were successfully organized during the period:

- March 11-14, 2009 – ConFER 2009 – Second National Conference on Education and Research on the theme ICT for Inclusive Development and Sustainable Growth
- May 4-6, 2009 – Short term course on Innovative Approaches in Power Electronics, Drives and Control
- May 18-20, 2009 – Workshop on Recent Trends in Microwave Technology
- June 16-18, 2009 – Workshop on Sensing & Measurement in Silicon Microsystem Technology
- November 9-20, 2009 – FDP on Recent trends in Microwave Technology

- December 16-18, 2009 – National Conference on Communication, Signal Processing & VLSI Design - RASCON'09
 - October 22-November 3, 2009 – Faculty Induction Programme for 30 freshly inducted faculty members was organized
 - February 19-20, 2009 – ‘Stop Sleepwalking through life’, Faculty Development Programme by Prof. Dr. Devadas Menon, IIT Madras, was held for the faculty
- **To organize more number of seminars/guest lectures**
- Two weeks FDP on ‘Signal Processing in Biomedical Applications’ at RSET from May 5 to 17, 2010.
 - Two weeks Staff Development Programme on Signal Processing in Biomedical Applications from May 3rd – 14th, 2010 organized by Department of Electronics and Communication Engineering.
 - One day workshop on “Embedded System Design”, on 20th April, 2010 at PG Center, RECT-IGNOU, Rajagiri Valley Campus, Kakkanad, Kochi, India.
 - Indo – German dialogue on ADST 2010 (Accelerated Dissemination of Solar Energy Technologies in India – Education and Research Perspectives), on 4th and 5th, March 2010,
 - Indo-German Dialogue on ‘Accelerated Dissemination of Solar Energy Technologies in India – Educational and Research Perspectives’, ADSET from March 4-5, 2010.
 - 10-hr. FDP on ‘Control Theory’ by Prof. Rajendra Verma, EEE Dept, 2010.
 - One day Workshop on ‘VLSI Design Methodology & Tools’ by Trident Tech Pvt Ltd. In association with RSET on February 6, 2010.
 - "Lab Safety Measures" The workshop includes Lectures and Demos by experts in the field of fire and safety, January 2010.
 - Stop sleep walking through life by Prof. (Dr.) Devdas Menon, Professor, IIT Madras, and February 2010.

- AICTE Sponsored two weeks Faculty development programme on “Recent Trends in Microwave Engineering”, during 9th – 20th, November, 2009
- Fractals Application, Semiconductor Device Technology & Modelling, Semiconductor Devices FDP`s.
- Workshop on silicon Microsystems
- Three day workshop on Lab VIEW hands on training

➤ **Encourage engineering professional bodies’ activities**

- August 1, 2009 – IETE Student forum inaugurated
- August 26, 2009 – IEEE Women in Engineering affinity group inaugurated
- Subsequently various activities were hosted by these and other professional bodies and branch associations.

2. New academic Programs initiated (UG and PG):

- M.Tech in Computer Science and Information Systems
- M.Tech in VLSI Design and Embedded Systems

3. Innovations in curricular design and transaction:

Rajagiri School of Engineering & Technology is affiliated to Mahatma Gandhi University, Kottayam, Kerala. The institute does not have any flexibility of curriculum other than to follow the curriculum by the university to which it is affiliated. Faculty members from the college have contributed significantly to the development of curriculum during syllabus revision meetings conducted by M. G. University.

4. Inter-disciplinary programs started:

Nil

5. Examination reforms implemented:

Annual Quality Assurance Report

A Software to automate the entire examination procedures, PRAGATI was introduced. The PRAGATI has provisions for faculty to opt examination duty on date of convenience, swap duties after option, generating students room allocation list, absentees list & consolidated duty list of faculty. RSET alumni and former faculty Nishant R. (2005-2009 batch) created the software.

6. Candidates Qualified: NET / SET / GATE etc.

Qualifying Examination	No. of students
Gate Examination	22

7. Initiative towards Faculty Development Programs:

Department	Faculty / Staff Development Programmes	Number of faculty benefitted
CSE	Summer / Winter schools, Workshops, etc.	1
ECE	Summer / Winter schools, Workshops, etc.	6
EEE	Summer / Winter schools, Workshops, etc.	4
IT	Summer / Winter schools, Workshops, etc.	4
AE	Summer / Winter schools, Workshops, etc.	31
BSH	Summer / Winter schools, Workshops, etc.	0
Total	Summer / Winter schools, Workshops, etc	46

8. Total number of seminars / workshops conducted:

- Two weeks FDP on 'Signal Processing in Biomedical Applications' at RSET from May 5 to 17, 2010.

Annual Quality Assurance Report

- Two weeks Staff Development Programme on Signal Processing in Biomedical Applications from May 3rd – 14th, 2010 organized by Department of Electronics and Communication Engineering
- One day workshop on “Embedded System Design”, on 20th April, 2010 at PG Center, RECT-IGNOU, Rajagiri Valley Campus, Kakkanad, Kochi, India.
- Indo – German dialogue on ADST 2010 (Accelerated Dissemination of Solar Energy Technologies in India – Education and Research Perspectives), on 4th and 5th, March 2010.
- AICTE Sponsored two weeks Faculty development programme on “Recent Trends in Microwave Engineering”, during 9th – 20th, November, 2009
- 10-hr. FDP on ‘Control Theory’ by Prof. Rajendra Verma, EEE Dept, 2010.
- Indo-German Dialogue on ‘Accelerated Dissemination of Solar Energy Technologies in India – Educational and Research Perspectives’, ADSET 2010 held at RSET from March 4-5, 2010.
- One day Workshop on ‘VLSI Design Methodology & Tools’ by Trident Tech Pvt Ltd. In association with RSET on Feb 6, 2010.
- "Lab Safety Measures" The workshop includes Lectures and Demos by experts in the field of fire and safety, Jan 2010.
- Stop sleep walking through life by Prof. (Dr.) Devdas Menon, Professor, IIT Madras, Feb 2010.
- Fractals Application, Semiconductor Device Technology & Modelling, Semiconductor Devices FDP's.
- Workshop on silicon Microsystems
- Three day workshop on Lab VIEW hands on training

9. Research projects a) Newly implemented: NIL

b) Completed: NIL

10. Patents generated, if any.

NIL

11. New collaborative research programs:

Annual Quality Assurance Report

NIL

12. Grants received from AICTE /University:

NIL

13. Details of research scholars:

Name of the Scholar	Department, Institution/ Organization	Name of guide	Part Time / Full Time
Meena V(AEI)	NIT Calicut	Dr.G Abhilash	Part Time
Sonia Paul (BSH)	MG University	Dr. Celine E.	Part Time
Ram kumar P.B. (BSH)	CUSAT	Dr. K.V. Pramod	Part Time
Sreeja K.U. (BSH)	BITS Pilani	Dr. Vinodkumar P.B.	Part Time
Murali T.K.(BSH)	MG University	Dr. Sunny Kurialose	Part Time

14. Citation index of Journals faculty members and impact factor of Papers:

Vinod Kumar P.B., Chaotic functions on fractafolds, Trans AMS, 2010, 132, 178 – 193

15. Books Published by the faculty

Sl. No.	Name of the Faculty	Title	Publisher
1	Binu A(IT)	Problem Solving and Computer Programming using C(1(978-93-80386-67-6))(IT)	Laxmi Publications(IT)

16. Honors / Awards to the faculty:

NIL

17. Internal resources generated:

NIL

18. Details of departments getting SAP, COSIST, (ASSIST) DST, FIST, etc. assistance / recognition:

NIL

19. Community services:

SL NO	Community Services	Date	Agency & Place
1	Socio Economic Survey	27 th May – 1 st June 2009	NSS Kakkanad
2	Sevana Varam	2 nd October 2009	NSS Rajagiri Campus
3	Blood Donation Campaign	26 th August 2009	NSS Rajagiri Campus
4	School Kit Distribution	25 th May 2010	NSS Nilampathujimughal, Kakkanad

20. Teachers and officers newly recruited:

- Mr. Robin Cyriac (Dept. of CSE)
- Ms. Anita John (Dept. of CSE)
- Ms. Jisha G. (Dept. of IT)
- Ms. Aparna George (Dept. of AE)
- Mr. Anish T (Dept. of AE)
- Mr. Vinod P. (Dept. of ECE)
- Mr. Walter Joseph (Dept. of ECE)
- Mr. Delson Therambath Rajanbabu (Dept. of ECE)
- Ms. S. Santhi Jabarani (Dept. of ECE)
- Mr. Rooha Razmid Ahamed (Dept. of ECE)
- Ms. Deepthy G.S. (Dept. of ECE)
- Mr. Karthikeyan K.B. (Dept. of EEE)
- Ms. Rinu Alice Koshy (Dept. of EEE)

Annual Quality Assurance Report

- Ms. Prathibha P.K. (Dept. of EEE)
- Mr. Saji Joseph (Maintenance)
- Mr. Mrudhul Mohan (Technical Asst.)

21. Teaching – Non-teaching staff ratio: 1:3

Total no: of Permanent Teachers =167 (Prof.=18, Asso. Prof. =1 ,

Asst. Prof. = 18, Lecturers =130)

Total no: of Non-Teaching Staff = 53 (Technical =24, Admn. Staff =29)

22. Improvements in the library services:

- Central Library is fully computerized and is kept open from 8.00 A.M to 8.30 P.M on all working days and 9.30 A.M to 4 P.M on Sundays and Holidays. Apart from Central Library, we have department library also.
- The online access of e-journals and internet browsing facility in the Digital Library with the improved infrastructure made available for the above timing.
- The library provided computerized circulation of books, OPAC search facility etc.
- OPAC Library provides the options for searching new arrivals, collections, journals, E-resources, Dictionary etc.
- The library provided Digital Database with C-DEEP Video Lectures and Institutional Repository.

23. New books / journals subscribed and their value:

Year : 1 st April 2009 – 31 st March 2010			
Sl. No.	Particulars	Quantity(Nos.)	Value(RS)
1	Text Books	2806	220751
2	Reference Books	296	463221
3	Journals	38	121254
4	E-Journals	241(IEEE/IET-IEL)	363040
5	CD & Video	238	-

24. Courses in which student assessment of teachers is introduced and the action taken on student feedback:

Student feedback on all the theory and the lab courses are taken at the semester end and the same will be available for the Principal. The Principal will evaluate the feedback and will convey correction methods to the corresponding faculty.

25. Unit cost of education:

Rs. 57624/-

26. Computerization of administration and the process of admissions and examination results, issue of certificates:

Automation of the admission process done from distribution of application form, segregation, rank list generation to allotment. Application forms are available both offline and online. Examination results are obtained from university website and later on certificates are issued through college.

27. Increase in the infrastructural facilities:

- 2 new class rooms for PG students have been started in CSE dept. with a total area of 90.54 sq. m.
- A new classroom for PG students has been started in ECE dept. having a total area of 50 sq. m.
- Maintenance is done in different departments under various heads at total cost of 60.29 lakhs.
- Simulation lab was set up with 10 computers in EEE department

28. Technology Upgradation:

- Nine important equipments (> 1 lakh) were purchased in various departments during the year 2009-10.

- Matlab software was purchased at cost of Rs. 6.38lakhs.
- A total of 195 Desktop computers and 36 Laptops were purchased in various departments.
- Purchase of Digital Storage Oscilloscope (4 nos) – Rs. 91,520, Purchase of DSP kit from Cranes software (3 nos) – Rs. 92,560 and Other Laboratory consumables, Multimedia projectors, microprocessor trainer kits were also purchased during this academic year.
- One computer lab is added in EEE department with PSIM and Matlab software installed.
- The Department staff members have separate accounts to save their data and they may use internet and intranet any time free of cost.
- The institution has a 6 Mbps dedicated line for internet.
- Laptops were provided to all the faculty members.

29. Computer and internet access and training to teachers and students:

- Entire campus is Wi-Fi enabled and all computer labs have Internet access.
- The institution has a 6 Mbps dedicated line for internet.
- Laptops were provided to all the faculty members on seniority basis.
- All students are given separate login accounts to store their data, whenever necessary, in the college server.
- All the staff members have separate accounts to save their data and they may use internet and intranet any time free of cost.
- All the staff rooms are equipped with a computer and printer with internet access.

TRAINING TO TEACHERS AND STUDENTS

- Workshop on “Silicon Microsystem 16th to 18th June, 2009.
- Two Day workshop on ‘Energy Audit Training’ conducted by Energy Management Centre, Trivandrum from Oct 8-9,2009
- AICTE sponsored FDP on ‘Recent Trends In Microwave Technology’ from Nov 11-20,2009

Annual Quality Assurance Report

- National conference on “Communication Engineering , Signal processing and VLSI Design” ,held on December 16-19, 2009
- AICTE sponsored FDP on ‘Recent Trends In Microwave Technology’ at RSET from Nov 11-20,2009
- Four day Hands on Training in ‘ARM Processor’ organized by School Of Electronics Engineering(SENSE) –Embedded System Division,VIT at VIT,Vellore from Oct 22-25,2009
- Two Day workshop on ‘Energy Audit Training’ conducted by Energy Management Centre, Trivandrum from Oct 8-9,2009
- Quality Improvement Programme on Question Paper Setting and Student Evaluation conducted by NITTTR, Chennai in ToCH engineering college on 7/2/2009
- EC Lab Staff Up gradation Programme (Apr 21-27, 2009)(RV)
- Department Seminar on the topic ‘ SYMPOL 2009’ June 2009.(RJ)
- A Department Seminar on the topic ‘ Introduction to embedded systems & ARM based processors’ Nov 2009
- Department Seminar on the topic Question Paper Setting and Student Evaluation 2009
- A one day workshop on ‘Lab Safety Measures’ on Jan 16, 2010
- Staff Development Programme on Signal Processing in Biomedical Applications. 3-5-2010 to 14-5-2010
- Short Term Training Program on ‘Neural Network and Fuzzy System’ at KJSIEIT, Sion, Mumbai from January 4-8, 2010.
- A Session on “Digital Image processing and its applications “ in the FDP on Signal processing in Biomedical Applications, during 3-14 May 2010(JJ)
- Indo-German Dialogue on ‘Accelerated Dissemination of Solar Energy Technologies in India – Educational and Research Prespectives’,ADSET2010 held from March 4-5 ,2010
- Three day workshop on “Lab View hands on Training” from 26th to 28th April 2010.
- Workshop on “Embedded system design” by RECT- INGOU on April 20, 2010
- 2-week SDP in Signal Processing in Biomedical Applications, May 3-14, 2010.

Annual Quality Assurance Report

- 10-hr. FDP on 'Control Theory' by Prof. RajendraVerma, EEE Dept,2010.
- Indo-German Dialogue on 'Accelerated Dissemination of Solar Energy Technologies in India – Educational and Research Prespectives',ADSET2010 held from March 4-5 ,2010
- One day Workshop on 'VLSI Design Methodology & Tools' by TridentTech Pvt. Ltd. In association with RSET on Feb 6,2010

30. Financial aid to students:

	Number of students	Amount
Financial support from institution	42	Rs. 1441400
Financial support from government	123	Rs. 26,32,043
Financial support from other sources		
Number of students who received International/National recognitions		

31. Activities and support from the Alumni Association:

Each department has a faculty advisor for coordinating alumni activities

Alumni association

- a. Arrange periodic meetings of alumni
- b. Ensure alumni registration
- c. Prepare alumni news letter
- d. Maintain records of alumni & the meets that take place
- e. Proposing annual budget

32. Activities and support from parent-teacher Association:

PTA has an executive committee comprising the parents of students' branch wise and year wise and the representatives of the faculty including Director and the Principal.

Annual Quality Assurance Report

Committee meets at least twice in a year to discuss all matters of interest.

33. Health services:

The Medical Trust Hospital, Kochi operates the medical centre functioning in the campus, which has a full time nurse and a doctor whose services are available from 2 P.M to 4 P.M on Mondays, Wednesdays, Fridays and Saturdays.

34. Sports activities:

The athletically inclined students can take advantage of the cricket and football fields, basketball, volleyball, badminton and tennis courts and the jogging track on the campus. There is also provision for indoor games including table tennis. The campus has a health club and fitness centre.

35. Student achievements and awards:

No. of students participated in technical events.

SI No	Name	Event name	Conducted/ Organized by	Position secured
1	Chittu Mary Joe	International Workshop on Cloud Computing by Microsoft IIHT	IIHT Cloud Campus , Cochin	Participated
2	Chittu Mary Joe	Ideas to Execution for Entrepreneurs Workshop	Vishishth'12 and Nurture Talent Academy, hosted by RSET	Participated
3	Chittu Mary Joe	Electronic System Design and Manufacturing Workshop	RSET	Participated
4	Hari Govind Ravidran	Cypher decoding	IEEE-CSI	participated

Annual Quality Assurance Report

5	Jeswin Jose	Cypher decoding	IEEE-CSI	participated
6	Sibi A Saseendran, Sudheer Menon, Sumit Saseendran	CII Innovator	CII	Participated

No. of students participated in cultural events.

Sl.No	Student name	Place	Event	Prize	Year
1	Stephy Sebastian	Saintgits	Choreography	First	March 2010
2	Namitha Venugopal	RIT,Kottayam	Step up	Second	March 2010
3	Namitha Venugopal	Saintgits	Mirror dance	First	March 2010
4	Namitha Venugopal	Saintgits	Choreography	First	March 2010
5	Namitha Venugopal	NIT,Calicut	Choreonite	Third	March 2010
6	Stephy Sebastian	NIT,Calicut	Choreonite	Third	March 2010
7	Rebecca Saji Moses	NIT,Calicut	Choreonite	Third	March 2010
8	Rebecca Saji Moses	RIT,Kottayam	Step up	Second	March 2010
9	Rebecca Saji Moses	Saintgits	Choreography	First	March 2010
10	Niya Elsa Kuruvila	Saintgits	Choreography	First	March 2010
11	Niya Elsa Kuruvila	RIT,Kottayam	Step up	Second	March 2010
12	Niya Elsa Kuruvila	NIT,Calicut	Choreonite	Third	March 2010

13	Hitha Raju	MG university Youth Festival	Western Group Song	Third	Jan 2010
----	------------	---------------------------------	-----------------------	-------	----------

36. Activities of the Guidance and Counseling unit:

The student welfare officer (SWO) of the college provides counseling to the students on their personal and academic problems. Any teacher can refer the students to the SWO, if they feel the need. Academically backward students are usually referred to explore for stress factors in the students' life and to help them out in coping with the stress factors or resolving the stressful situations. The students are free to call up the SWO any time and discuss issues over telephone or through texting as well. In order to establish rapport with the students, the SWO is allotted 4 – 5 sessions with the first year students every year.

No.of students benefitted

51

37. Placement services provided to students:

The placement cell keeps track of openings within the country and abroad and brings in companies for campus recruitment. It prepares students for recruitment by providing training through aptitude tests, Group discussions and mock interviews.

The objectives of the training cell are to help students develop their personality and equip them with additional skills necessary to succeed in the workplace. Courses offered by the cell are mandatory pre requisite for on campus placements. The areas of focus will include

- Self and Context Awareness
- Communication skills
- Decision making and Action Planning
- Team skills
- Values and Ethics
- Engineering and Professional skills

Training in the English language and communication skills receives priority in the RSET educational experience. Students are given practical and theoretical training in the language and communication theory in the first two years of the undergraduate programme, which is in addition to the university-prescribed course in communication

Annual Quality Assurance Report

skills. The RSET Language Lab, managed by the Department of Basic Sciences & Humanities, provides language tutorials for students who voluntarily opt for Remedial English classes. The exercises give the students exposure to a variety of listening and speaking drills, helping them to overcome language deficiencies, and improve their command over the language.

Students were recruited by top companies like

- Accenture
- Arbitron
- Birla Soft
- Bosch
- Caritor
- ChaYoWo Games
- Citigroup
- Convergys
- CTS
- Ernst & Young
- Federal Bank
- HCL
- Hexaware Technologies
- HP
- Huawei Technologies
- IBS
- i-Flex
- iGate
- Indian Navy
- Infosys
- Keane
- L&T Infotech
- Microsoft
- Mphasis
- NeST
- Reubro International
- Sasken
- SourceBits
- South Indian Bank
- Standard Chartered
- Subex
- Sun Tec
- Tata Elxi

Placement year	No. of students placed	No of offers received	Average % of placement	Average no. of offers per student
----------------	------------------------	-----------------------	------------------------	-----------------------------------

2009	239	314	68	1
------	-----	-----	----	---

38. Development programs for non-teaching staff:

To improve the skill of the support staff, the college deputed the members of the staff to undergo training and workshops organized by other institutions, universities and govt. organizations.

In house training programmes are also arranged by various departments to cater to the needs of the support staff.

39. Healthy practices of the institution:

- Rajagiri software development unit is functional to fulfill all the software needs of RSET.
- The RSET website and associated framework for automating the **Rajagiri Students Management System (RSMS)** and RSET Digital library were enhanced for smooth functioning of the institution.
- Exam automation system (**PRAGATI**) was introduced for smooth conduct of examinations.
- Institutional repository as intranet facility is accessible to students and faculty.

- Rajagiri Incubation Centre (RIC) provides RSET alumni and students with facilities that help them design and develop the working models of their innovative ideas and concepts.
- Coaching classes are conducted for students for GATE examinations.
- College also organized training programmes, workshops and guest lectures in various domains for the students by experts from industry and academia.
- Institution regularly conducts career development programmes to enhance student skills
 - Company Specific Training Programme

- Soft skill training programme
- The college coordinates research activities in view of institutional projects and consultancy works through various groups within the department specialized in different core engineering areas
 - To enhance research potential in faculty members and students.
 - Skill enhancement for improving student employability / for higher education.
- Remedial classes for academically weak students are held periodically.
- The college organized technical symposium 'Techshetra' and arts festival Bharatham to boost the co-curricular and extra-curricular activities of the students.
- The Honesty Shoppe successfully functioning in the college campus has essential stationery items which students may purchase by depositing the listed price in the money box.
- The college conducts poster presentation for first year students to enrich them with innovative ideas in different core engineering disciplines.

NSS & Nature Club activities to support environmental awareness

- 5 days NSS programme in association with Rajagiri out reach, Kalamassery.
 - Suchitwa Bodhana Yajnam –Alwaye.
 - Exhibition, inter school competitions, street play & padayatra.
- Made green campus by planting more than 50 saplings every year

Energy Conservation

- The college has been conscious about the energy conservation for which it constituted Energy Conservation and ENCON club to promote energy conservation awareness among students and society.
- College also promotes procurement and installation of efficient electrical systems to save electricity.

Use of Renewable Energy

- The College has a tie-up with Renewable Energy Centre MITHRADHAM Chunangamveli, which promotes solar energy awareness among student community.

40. Linkages developed with National / International, academic / Research bodies:

41. Any other relevant information the institution wishes to add:

PART - C

* Plans of the Institution for the Next Year

The overall plan of action for Internal Quality enhancement during the year 2010-11 is mentioned below:

- To initiate new post graduate courses in Signal Processing, Industrial drives and control.
- Motivate the faculty to identify their research area and register for PhD
- Encourage the faculty to publish their research papers in National/International journals
- Strengthen the department association activities
- Improve the department library
- Provide opportunities for interacting with eminent people from industry and academia:
- Explore avenues for industry-institute interaction
- To organize more no of workshops and training programme
- To encourage the students for the Social service activities
- To have more number of programs on Faculty development & training