

THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC

Name of the Institution : Dr. M.G.R Educational and Research Institute,
(Deemed University, u/s 3 of UGC Act 1956)

Date of Reports : 20.07.2009 & 28.08.2011 (2008 & 2009)
(July/Aug 2010 – Aug 2011)

Part - A

The NAAC Peer Team visited the institution and NAAC certification was issued on Jan 2007. The Internal Quality Assessment Cell was constituted thereafter, as per the directives of the NAAC with the following composition, on the 15th Feb 2007.

The committee constituted in Feb 2008 continued to control the quality initiatives. The following were the initial members of the committee , as on Feb. 2008.

Chairperson : Dr. G. Gopalakrishnan, Vice Chancellor, Head of the Institution

Faculty : Prof. Dr. V. Cyril Raj, Head, Dept of Computer Science Engineering
Prof. Dr. S. Ravi, Head, Dept of Electronic & Communication Engineering
Prof. Mr. M. Ganesan, Head, Dept of Mechanical Engineering
Prof. Mr. L. Ramesh, Head, Dept of Electrical & Electronic Engineering
Prof. Mr. R. Ramasamy, Head, Dept of Electronic& Instrumentation Engineering
Prof. Dr. S. Arivalagan, Head, Dept of Civil Engineering
Prof.Dr.Rama Vaidhyanathan, Head, Dept of Industrial Biotechnology Engineering
Prof. Dr. Ramalingam, Head, Dept of Master of Business Administration
Prof. Dr. Uma Rajaram, Dean, Engg & Tech, as coordinator IQAC

Senior Administrative Official

Dr. S. Dinakaran, Registrar

External Experts

1. Quality Management : Dr. Aswinin Ravi, Prof. of Management,
D. G. Vaishnav College, Chennai
2. Industry : Dr. Sivarama Krishna Sastry, CEO
Allied
Electronics
3. Local Community : Mr.G.Dhananjayan, Chief Manager
(Indian Bank)

Director / Coordinator of IQAC : Prof. Uma Rajaram

NAAC / IQAC - NOMINATIONS**1. ACADEMIC PROGRAMMES COMMITTEE**

S.NO	NAME	DESIGNATION	DEPARTMENT	FUNCTIONAL DESIGNATION
1	Dr. G. GOPALA KRISHNAN	RECTOR	MECHANICAL	CHAIRMAN
2	Dr. V. CYRIL RAJ	PROFESSOR	CSE	MEMBER
3	Dr. S. ARIVALAGAN	PROFESSOR	CIVIL	MEMBER
4	Mr. L. RAMESH	AP	EEE	MEMBER
5	Mr. R. RAMASAMY	PROFESSOR	E&I	MEMBER
6	Dr. RAMA VAIDHYA NATHAN	PROFESSOR	IBT	MEMBER
7	Dr. S. RAVI	PROFESSOR	ECE	MEMBER
8	Mr. M. GANESAN	PROFESSOR	MECHANICAL	MEMBER
9	Dr. RAMALINGAM	PROFESSOR	MBA	MEMBER
10	Dr. N. PADMANABHAN	PROFESSOR	CHEMICAL	MEMBER
11	Dr. VASUDEVAN	PRINCIPAL	DENTAL COLLEGE	MEMBER
12	S. REVANTH KUMAR		MECHANICAL	STUDENT REPRESENTATIVE
13	ABHINAV KUMAR		ECE	STUDENT REPRESENTATIVE
14	AMIT KUMAR		MBA	STUDENT REPRESENTATIVE
15	ANBU RAJA .C		MCA	STUDENT REPRESENTATIVE

2. TEACHING AND EVALUATION PROGRAMMES

S.NO	NAME	DESIGNATION	DEPARTMENT	FUNCTIONAL DESIGNATION
1	Dr. G. GOPALA KRISHNAN	RECTOR	MECHANICAL	CHAIRMAN
2	Dr. ARAVINDAN	DEAN RESEARCH	MECHANICAL	MEMBER
3	Dr. S. PADMASANI KANNAN	PROFESSOR	ENGLISH	MEMBER
4	Mr. L. RAMESH	AP	HOD / EEE	MEMBER
5	Mrs. E. SHEEBA PERCIS	AP	Deputy HOD / EEE	MEMBER
6	Dr. SIVAKESAN	CONTROLLER OF EXAMINATIONS	COE	MEMBER
7	Mr. N. ETHIRAJ	Joint. CONTROLLER OF EXAMINATIONS	COE	MEMBER
8	SUMIT RANJAN		ECE	STUDENT REPRESENTATIVE
9	BHASKAR JYOTI BORAH		MECHANICAL	STUDENT REPRESENTATIVE

3. CO-CURRICULAR PROGRAMMES

S.NO	NAME	DESIGNATION	DEPARTMENT	FUNCTIONAL DESIGNATION
1	Dr. G. GOPALA KRISHNAN	RECTOR	MECHANICAL	CHAIRMAN
2	Dr. S. VAIRAMANI	DIRECTOR	PHYSICAL DIRECTOR	MEMBER
3	Mr. R. KALAIANAN	AP	CIVIL	MEMBER
4	Mr. VIJAYAKUMAR	AP	MBA	MEMBER
5	Dr. RAMA VAIDYANATHAN	PROFESSOR	HOD / IBT	MEMBER
6	Mr. MANOJ BABU	AP	MECHANICAL	MEMBER
7	SURAM MALLIKARJUN		IBT	STUDENT REPRESENTATIVE
8	HARI PRASATH RANGANATHAN.S		CIVIL	STUDENT REPRESENTATIVE
9	T.V.X. NIROSHANTH		IT	STUDENT REPRESENTATIVE
10	SONU CHOUDHARY		CSE	STUDENT REPRESENTATIVE

11	DEVENDRA RAJPUT		CSE	STUDENT REPRESENTATIVE
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4. RESEARCH PROGRAMMES

S.NO	NAME	DESIGNATION	DEPARTMENT	FUNCTIONAL DESIGNATION
1	Dr. G. GOPALA KRISHNAN	RECTOR	MECHANICAL	CHAIRMAN
2	Dr. P. ARAVINDAN	DEAN (R&D)	MECHANICAL	MEMBER
3	Mr. V.N. RAJAVARMAN	AP	IT(Research Scholar)	MEMBER
4	Mr. T.V. ANANTHAN	AP	CSE(Research Scholar)	MEMBER

5. EXTENSION PROGRAMMES

S.NO	NAME	DESIGNATION	DEPARTMENT	FUNCTIONAL DESIGNATION
1	Dr. G. GOPALA KRISHNAN	RECTOR	MECHANICAL	CHAIRMAN
2	Mr. P.S. RAJAKUMAR	AP	IT	MEMBER
3	Mrs. S. GEETHA	AP	CSE	MEMBER
4	Mr. G. SREERAM	AP	CSE	MEMBER
5	Dr. RAMA VAIDYANATHAN	PROFESSOR	HOD / IBT	MEMBER
6	NISHANT KUMAR		ECE	STUDENT REPRESENTATIVE
7	PREETHIKA.V.B		CIVIL	STUDENT REPRESENTATIVE
8	PRINCE KUMAR		IT	STUDENT REPRESENTATIVE
9	ABHINAV KUMAR		ECE	STUDENT REPRESENTATIVE
10	RASHMI KANT SINGH CHAUHAN		EEE	STUDENT REPRESENTATIVE

6. EFFECTIVE GOVERNANCE CELL

S.NO	NAME	DESIGNATION	DEPARTMENT	FUNCTIONAL DESIGNATION
1	Dr. G. GOPALA KRISHNAN	RECTOR	MECHANICAL	CHAIRMAN
2	Dr. G.C. KOTHANDAN	Executive Director	MBA	MEMBER
3	Mr. RAGHUVeer	AUDITOR	FINANCE	MEMBER
4	Dr. P. KALIAPERUMAL	DEAN	MBA	MEMBER
5	Mr. GURUNATHAN	ESTATE OFFICER		MEMBER
6	Dr. S. DINAKARAN	REGISTRAR		MEMBER
7	KUMARESH KHAN		MBA	STUDENT REPRESENTATIVE
8	ABIRAMI.M		MCA	STUDENT REPRESENTATIVE

7. INFRASTRUCTURE DEVELOPMENT CELL

S.NO	NAME	DESIGNATION	DEPARTMENT	FUNCTIONAL DESIGNATION
1	Dr. G. GOPALA KRISHNAN	RECTOR	MECHANICAL	CHAIRMAN
2	Mr. EDWIN D. THANGAM	AP	CIVIL	MEMBER
3	Mr. MALLIKARJUNA REDDY	AP	CIVIL	MEMBER
4	Mr. A. IYEM PERUMAL	AP	MATHEMATICS	MEMBER
5	Mr. A.K. DASARATHY	AP	CIVIL	MEMBER
6	Mr. PRAVEEN JEYASINGH	Purchase Co-ordinator	PURCHASE OFFICE	MEMBER
7	HARI PRASATH RANGANATHAN.S		CIVIL	STUDENT REPRESENTATIVE
8	ARUN KUMAR		E&I	STUDENT

				REPRESENTATIVE
9	SUPRIYA MOON		CHEMICAL	STUDENT REPRESENTATIVE

8. MANAGEMENT INFORMATION SYSTEM

S.NO	NAME	DESIGNATION	DEPARTMENT	FUNCTIONAL DESIGNATION
1	Dr. G. GOPALA KRISHNAN	RECTOR	MECHANICAL	CHAIRMAN
2	Dr. S. RAMALINGAM	PROFESSOR	HOD / MBA	MEMBER
3	Dr. P. KALIAPERUMAL	DEAN	MBA	MEMBER
4	Dr. C.B. PALANIVELU	Addl. REGISTRAR	MECHANICAL	MEMBER
5	Mr. V. CYRIL RAJ	PROFESSOR	HOD / CSE	MEMBER
6	NILESH KUMAR		CSE	STUDENT REPRESENTATIVE
7	DOLLY KUMARI		E&I	STUDENT REPRESENTATIVE
8	ANUPKUMARSINGH		CHEMICAL	STUDENT REPRESENTATIVE
9	SOHAM GHOSH		EEE	STUDENT REPRESENTATIVE

9. GYMKHANA

S.NO	NAME	DESIGNATION	DEPARTMENT	FUNCTIONAL DESIGNATION
1	Dr. G. GOPALA KRISHNAN	RECTOR	MECHANICAL	CHAIRMAN
2	Dr. S. VAIRAMANI	DIRECTOR	PHYSICAL DIRECTOR	MEMBER
3	Dr. K. SANKARAN	PROFESSOR	PHYSICAL DIRECTOR	MEMBER
4	Mr. R. KALAIANAN	AP	CIVIL	MEMBER
5	Mr. M. VIJAYAKUMAR	AP	MBA	MEMBER

10. LIBRARY

SL.NO	NAME	DESIGNATION	DEPARTMENT	FUNCTIONAL DESIGNATION
1	Dr. G. GOPALA KRISHNAN	RECTOR	MECHANICAL	CHAIRMAN
2	Mr. RAJAN BABU	LIBRARIAN	LIBRARY	MEMBER
3	Mr. V. CYRIL RAJ	PROFESSOR	HOD / CSE	MEMBER
4	Mr. RAJESH	System Administrator	CSE	MEMBER
5	AMIT KUMAR		MBA	STUDENT REPRESENTATIVE
6	ANBU RAJA .C		MCA	STUDENT REPRESENTATIVE
7	SUPRIYA MOON		CHEMICAL	STUDENT REPRESENTATIVE
8	SUMIT RANJAN		ECE	STUDENT REPRESENTATIVE
9	SOHAM GHOSH		EEE	STUDENT REPRESENTATIVE

The plan of action chalked out by the IQAC in the beginning of the year aimed at improved innovations in the field of academics and infrastructural development of the institution under the following criteria:

1. Diversification of Courses
2. Importance of teaching-learning process
3. Innovation in Teaching Methodology
4. Assessment of Faculty
5. Update the library
6. Library hour.
7. World AIDS Day Awareness
8. Automation of library books using Boan Software sustained.
9. Subscription was planned Access of e-journal and e-books in the library, came into effect for staff and students.
10. The National and International journals were subscribed
11. Browsing internet was implemented in the Central Library
12. Regular Newsletters/Wall magazines by all departments and publication of journals by more departments.

13. Infrastructure Modification –

- i. The list of total number of students received from the Admissions Office was presented to the members.
 - ii. Construction of a new block was suggested as existing blocks were not sufficient for accommodating students in the coming academic year.
 - iii. Tentative class room requirements were arrived at, class room arrangements were made.
 - iv. Based on suggestion given by V-C class rooms were accommodated near to respective departments.
 - v. Students were satisfied with the class room arrangements
 - vi. The list of class room arrangements was finalized and sent to the Dean (E&T), for circulating to the departments.
14. Seminars to be held in all departments on a regular basis, against a drawn out schedule
15. Remedial teaching to be incorporated in the college timetable on a regular basis

Part - B

1. Activities reflecting the goals and objectives of the institution

The Entrepreneurship Development Cell conducted a week long Programme for the students of the University, reflecting the main objective of the Institution “To produce Job Creators” Report of the E-Cell week given in **Annexure-I**. Mostly the week long programme created an awareness in the following areas:

A debate as to “which is a better option for fresh Engineering Graduates- Entrepreneurship or Employment?”, Business ideas for India Techno Bazaar, where the students exhibited their technical innovations – a detailed report is given in **Annexure-I**

Real-time training for the students is arranged with Industries like TVS (CPAT), IBM Software, Oracle, BSNL, and TNEB. Students are encouraged to participate in the State Level Sports Events and Inter University Sports Tournaments. The students are given training in the different types of Yoga Exercises, Meditation, Food and Nutrition.

Many PG Programmes are planned and Syllabi formed for award of all PG Programmes in the latest technological fields like Nano Electronics, Wireless Communication, Information Security & Cyber Forensics, Polymer Science and Nuclear Physics.

After a detailed study, a change in the question paper pattern model for the 1st year Programme was taken up. It was later ratified by the Academic Council.

More than 830 Research papers have been published by our faculty and Research Scholars in National and International Journals. 99 of the Engineering Technology papers had a Scopus rating, while 146 papers of the Dental Surgery stream were in indexed journals, like Copernicus International, Pub med & Guidant.

International Conferences were conducted by EEE & MBA Department, obtained ISSN for the

- ❖ Management Global Review (Bi Annual) – National Journal which will be released in the month of August 2011.
- ❖ International Journal on ACS IJCI (The Advance Computing Science International Journal of Computational Intelligence) quarterly and yearly issue ISSN 09761292.
- ❖ Annual Japan – Indian Student Conference (JISC) 25/08/2011.

2. New Academic Programmes Initiated (UG and PG)

B. Tech. Nano Electronics Engineering (BNE)
B. Tech. Electronics & Control Engineering
B. Tech. Mobile Communications & Networking
B. Tech. Space / Mobile Communication*
M. Tech. Wireless Communication*
M. Tech. Satellite Communication*
M. Tech. Bio-Mechanical Engineering*
M. Tech. Cryogenic Engineering*
M. Tech. Thermal Engineering
M. Tech. Information Security & Cyber Forensics*
M. Tech. Integrated Digital Entertainment*
M. Tech. Satellite Communication*
M. Tech. Space / Mobile Communication*
M. Tech. Wireless Communication
M. Tech. Transportation Engineering
M. Tech. Medical Bio-Technology
M. Tech. Nano Technology*
M. Tech. Electronics & Control Technology
M. B. A. Sports Management*
M. B. A. Health Care Management*

M. B. A. Hospitality Management*
 M. A. English Language Teaching and Linguistics/Literature*
 M. Lit. English Language Teaching and Applied Linguistics*
 M. Sc. Polymer Science
 M. Sc .Nuclear Physics
 M. Phil. Operations Research*
 M. Phil. Stochastic Processes*
 M. Phil. Industrial Mathematics
 M. Phil. Physical Education, Sports and Health Sciences*

DENTAL SURGERY

Two - year PG Diploma in Implantology*
 Two - year PG Diploma in Aesthetic Dentistry*
 Two - year PG Diploma in Oral Oncology*

(* Approval of MHRD/UGC/DCI awaited)

3. Innovations in curricular design and transaction

The Curriculum is modified to contain latest technological changes to suit the Industry needs. Every course contains Mat Lab Simulation and Computer Aided Simulation to help students understand the concepts and help them to think laterally and come up with ideas.

Department of Management Studies has designed a method to evaluate their Faculty

- ❖ Students Evaluation
- ❖ Peers' Evaluation
- ❖ Self Evaluation
- ❖ Evaluation by HOD

Innovations introduced in Teaching-Learning Process/other activities of the Department.

- ❖ All the faculties in Engineering and Technology handle their classes with modern teaching aids like power-point presentation, overhead projection and on-line learning.
- ❖ Faculty Development programmes are conducted/attended by our faculty to keep abreast of the day-to-day technologies.
- ❖ Workshops and Symposiums are conducted by every department to develop the knowledge and skills of all students.

Department of MBA

- ❖ LCD Projector is being used in the class room while teaching the students.
- ❖ At the end of the session Ten minutes are allotted for open discussion.
- ❖ Group discussions are arranged among the students to discuss the issue in depth and this leads to cross fertilization of ideas and students get more options to find out the solution for any issue.
- ❖ Students are encouraged to take Seminars.
- ❖ Case study discussion has been done for all possible subjects

Department of Mechanical Engineering

Unique Feature Of B.Tech. Curriculum

- ❖ Introduced Industrial Training in the curriculum with one credit in 6th Semester, so that all students will get industrial exposure during the course of study. It also serves for industry-institute partnership
- ❖ Conventional Engineering Drawing in I year is modified as Engineering Graphics, with emphasis on visualization of objects and CAD modeling.
- ❖ Inter-disciplinary subjects introduced up to 20%.

Unique Feature of M.Tech. Energy Engineering

Industrial training for a minimum period of one month has been introduced in the curriculum with 2 credits. During this period the students should visit a manufacturing industry, carry out a mini project in the area of energy conservation/energy auditing and submit a report during the viva-voce examination. This will give them an insight into the energy area and auditing.

Unique Feature of M.Tech. Automobile Engineering

- ❖ This course will be conducted in collaboration with leading automobile industries
- ❖ The course has been designed on a trimester basis
- ❖ One trimester exclusively for internship in auto industry
- ❖ The curriculum has been designed in line with need of automotive industries. The curriculum includes Automobile Crash Worthiness, Occupant Safety, Interior Design, Exterior Design, Power Trains, Auto Electronics, Emission Control, Auto Simulator, CFD and Modeling Packages.

Unique Feature of M.Tech CRYOGENIC ENGINEERING

Cryogenic Engineering is the science and technology of very low temperatures. It serves as the key to many successful technology programmes in several areas. It is an important inter-disciplinary area involving several fields, such as Cryo-electronics, Cryo-biology, Cryo-coolers, Cryogenic-finishing, Cryogenic-insulation, and Cryogenic-treatment of Materials, Cryogenic-in-space, Cryogenic-wind tunnel, Cryogenic Instrumentations and Sensors, Cryo-surgery, Cryo-medicine, High Energy Physics, Super Conductivity and so on.

The main objective of this course was to cover the fundamentals, as well as, advanced topics in the area of Cryogenic Engineering. The course is meant for Mechanical Engineering students, to enable them to gain complete exposure in the cryogenics field and help them to take up many challenging tasks in the area.

Unique Feature of M.Tech. Bio Mechanical Engineering

The Biomechanical Engineering group (BME) is a major technical area within the Mechanical Engineering Department at Dr. M.G.R. Educational & Research Institute and offers programs that focus on the application of Mechanical Engineering principles to biology and medicine.

A key element of the program is that research and education approaches are motivated by clinical applications of fundamental principles. Thus the group fosters a multidisciplinary approach that includes strong interactions with the School of Medicine as, well as other Engineering disciplines.

This is a course intended primarily for students with limited background in Bio-Engineering topics. The course covers applications of Mechanical Engineering principles to problems in the life sciences; Transport Phenomena of Physiological Solids and Fluids; Bio-signal Analysis and Instrumentation; Biomaterials Design and Compatibility; Principles of Biomechanics and Human Locomotion; Physiological Systems Modeling and Control. This involves the application of Mechanical Engineering knowledge, skills and principles to the conception, Design, Development, Analysis, and Operation of Biomechanical Systems, including: Artificial Organs and Prosthetics; Bioinstrumentation and Measurements; Bio-Heat Transfer; Biomaterials; Experimental Techniques in Biomechanics; Bioprocess Engineering; Cellular Mechanics; Design and Control of Biological Systems; and Physiological Systems.

Innovative projects

- ❖ Design and fabrication of formula race car for SUPRA SAE competition
- ❖ Application of Nano fluids for improving the refrigeration effect
- ❖ Study of carbon fibre Carbon Nano tube composites
- ❖ Reduction of cold start emission by using close coupled catalyst
- ❖ Reduction of NOx emission using additives with Bio diesel in Diesel engines
- ❖ Effect of injection timing on NOx and smoke emission in a diesel engine with Bio diesel as fuel

4. Inter-disciplinary programmes started

B. Tech. Nano Electronics
M. Tech. Bio-Mechanical Engineering
M. Tech. Cryogenic Engineering
M. Tech. Energy Engineering
M. B. A. Health Care Management
M. Phil. Physical Education, Sports and Health Sciences

5. Examination Reforms Implemented

Credit system is followed for all UG and PG courses. Examination Pattern Schedules are announced a month prior to the examinations, and the flying squads constituted to go for surprise supervision in the examination Halls to prevent malpractices.

Double valuation is done for PG answer scripts. External examiners from outside Chennai City set the question papers for all UG papers and the valuation is purely external. Ph.D course works are valued as a PG paper. Revaluation for UG courses are done within 10 days of publication of results. Grade Sheets are issued within 10 days of publication. For Ph.D. thesis evaluation, University has a panel of Indian and Foreign Examiners and the thesis is evaluated by one Foreign Examiner and one Indian Examiner. The Indian Examiner happens to be the Examiner for viva -voce, as per the procedures followed by our codes. During examinations, poster display of punishment for Malpractices and Dos & Don'ts are exhibited.

First page of the examination answer booklet is an OMR sheet which is used for awarding / recording marks. Dummy numbers are randomly generated by computer for crypting the answer sheets.

6. Initiative towards faculty development programmes

Faculty Development Programmes were conducted by different departments of Engineering as mentioned below. The Dean (E&T) conducted a FDP on Teaching Methodology for the new recruits of the University, during the period May/June 2009 till July 2010.

Department of Computer Science Engineering

- ❖ Data Mining, Data Warehousing and Biological Database
- ❖ Trends and Cinemas in digital world
- ❖ IBM Certified DB2 students
- ❖ IBM Main Frame / System Mastery Level for Z/OS System Programme

Department of Electronic & Instrumentation Engineering

- ❖ Programmable Logic Controller / PLC Programming

Department of Mechanical Engineering

- ❖ R & D Opportunities in Advanced Materials
- ❖ Current Trends in Advanced Material Manufacturing

Department of Electrical & Electronics Engineering

- ❖ Reactive Power Management (2010)
- ❖ Research Methodology (2010)
- ❖ Artificial Neural Networks (2010)
- ❖ Training on PSCAD & ETAP (2010)

Academic Staff College

Date : 13-07-2011

Chief Guest: Mr. P. Veerendra, Academic Relationship Manager, Wipro Technologies.

Venue : Dr. M.G.R. Educational & Research Institute, University.

Primary objective was to improve the quality of teaching and proposed to provide opportunities for professional career development of the teachers as a whole. The initiative is also envisaged to inculcate the right kind of values that would in turn encourage teachers to take initiatives for innovative and creative work.

Other objectives of the Academic Staff College are to enable the lecturers to:

- ❖ Understand the significance of education in general, and higher education in particular, in the global and Indian contexts
- ❖ Realize the linkages between education, economic, socio-economic and cultural development, with particular reference to the Indian polity,

where democracy, secularism and social-equity are the basic tenets of society

- ❖ Acquire and improve basic skills of teaching at the college/university level to achieve the goals of higher education
- ❖ Be aware of the latest developments in their specific subject.

7. Total No. of Seminars / Workshops Conducted: (2010 – 2011)

Seminars : 15

Workshop : 10

Three International Conferences:

- ❖ INCROME April-2011 - International Conference on **Recent Advances on Mechanical Engineering**
- ❖ International Conference in **Academic Research** in August 14, 13 – 2010
- ❖ **SEISCON** - an IET sponsored International Conference organized by the Electrical & Electronics Department in August 2011

State Level Conference conducted as mentioned below:

- ❖ State Level Conference on Tagore, the **Citizen and his Work** (July 2010)

8. Ongoing Research Projects

Arunkumar Research Institute (ARI)

ARI R & D Centre

Dr. M.G.R Educational Research Institute - University, Chennai-95.

Application No: 47/CHE/2011

Filing Date: 7/1/2011

Filing Date : 24/1/2011

9. Patents generated, if any

Patents No. 47/CHE/2011 dated. 07/01/2011 *“Split Collapsible Mandrel for Intricate Port Configuration In Solid Rocket Motor Casting”*

10. New collaborative research programmes

Project Applied

- I** Agency : CWET (Centre for Wind Energy Technology)
Project Title : Intelligent Control of Wind Turbines & Analysis of Grid Connected Off shore Wind Farms Using HVDC Links.
- II** Agency : MNRE (Ministry of New & Renewable Energy)
Project Title : The Impacts of Grid Connected Distributed Generation on Voltage Sag and the Mitigation Techniques using FACTS Devices
- III** Project proposed titled “Design and Development of Cryo Probes for Dental Surgery” to ICMR under Millennium Development Goals(MDG-4)

11. Research grants received from various agencies

Project Completed (Electrical & Electronics Engineering)

Agency : AICTE
Project Title : Dry Type Transformer

Project Completed (Electronic & Instrumentation Engineering)

Agency : AICTE R&D
Project Title : An Ideal Microwave Based Leather Classification

Project Received (Industrial Bio-Technology)

Agency : CSIR
Project Title : Molecular Characterization of Bacterial Multi-Drug Resistance gene in clinical isolates of Klebsiella pneumonia and identification of plant based antimicrobials.

Project Received (Electronic & Instrumentation Engineering)

Agency : UGC
Project Title : Stimulated & therapeutic effects of Solanum Indium incorporated collagen matrix for diabetic wounds.

12. Details of Research Scholars

Details of the Research Scholars registered in 2008-2009 as on given below:

S.NO.	DEPARTMENTS	REGISTERED
1.	Computer Science & Engineering	01
2.	Information Technology	00
3.	Electronics & Communication Engineering	07
4.	Electrical & Electronics Engineering	00
5.	Instrumentation & Control Engineering	00
6.	Mechanical Engineering	00
7.	Civil Engineering	03
8.	Chemical Engineering	00
9.	Industrial Biotechnology	01
10.	Master of Computer Applications	01

11.	Management Studies	08
12.	Humanities and Sciences	10
TOTAL		31

13. Citation Index of faculty members and Impact factor – paper presentations

A large no. of Research Papers has been published thro' Conference, Seminars & Journals, Impact factor with respect to this paper, have also been provided along the paper titles.

DEPARTMENT OF CIVIL ENGINEERING

- ❖ Arivalagan, S. Thandavamoorthy, T. S. “Flexural Behaviour of Reinforced and Plain Concrete Beams made with Polypropylene Fibers” Journal of Structural Engineering, 2011 (Under Review), **I.F. 1.17.**
- ❖ Arivalagan, S. Thandavamoorthy T. S. “Polypropylene Fiber Reinforced Concrete Beam Subjected to Cyclic Loading”, Indian Concrete Institute, 2011 (Under Review)
- ❖ Arivalagan, S. Kandasamy, S. “Flexural Behaviour of Reinforced Steel Slag Concrete Beams”, International Journal of Civil and Structural Engineering, 2011(Under Review), **I.F. 0.24.**
- ❖ Arivalagan, S. Kandasamy, K. “Finite Element Analysis on the Flexural Behaviour of Concrete Filled Steel Tube Beams”, Journal of Theoretical and Applied Mechnics, Vol.48, No.2, pp.505-516, 2010, **I.F. 1.056.**
- ❖ Arivalagan, S. Kandasamy, K. “Study On Concrete-Filled Steel Member Subjected to Cyclic Loading”, International Journal of Civil and Structural Engineering, Vol.1, No.3, pp.458-465, 2010, **I.F. 0.24.**
- ❖ Arivalagan, S. Kandasamy S. “Seismic Behaviour of Concrete-Filled RHS Beam Subjected to Cyclic Loading”, The Open Civil Engineering Journal,2010(Under Review)
- ❖ Arivalagan, S. Kandasamy S. “Ductility and Stiffness Behviour of Composite Beams under Cyclic Loading”, Jordan Journal of Civil Engineering, 2010 (Under Review)
- ❖ Dharanirajan K., Thanikachalam M., Gurugnanam B., Narayanan RM., Gopal Chandra Falia., “Remote Sensing and GIS for the Study of Coastal Ecosystem Changes and its Conservation”, Int. Journ. Earth Sciences & Engineering Vol. 03, (ISSN 0974-5904) 2010, **I.F. 0.2334.**
- ❖ Vimala, B. Murugan, K. Deecaraman, M. Karpagam, S. Vijayalakshmi, M. and Sujatha, K. “The Toxic Effect of Neem Extravt, Spinosad and Endosulfan on the growth of Aphids and its Predator” Int. Journ .Bioscan.,Vol. 5(3) : 383-386, 2010

- ❖ Arivalagan, S. Kandasamy, K. "Energy Absorption Capacity of Composite Beams ", Journal of Engineering Science and Technology Review, Vol.2, No.1, pp.145-150, 2009
- ❖ Arivalagan, S. Kandasamy, K , "Development of Finite Element Model for Concrete Filled Steel Beams in Flexure", H.B.R.C.Journal, Vol.6,No.1, pp.73-82, 2009
- ❖ Sivaprakasam, C. "Performanance Evaluation of Anaerobic Treat ability at Various Organic Loading Rate for Dairy Effluent", Pollution Research ,Vol. 28(2), pp.1-5, 2009
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DEPARTMENT OF COMMUNITY DENTISTRY

- ❖ Vinita Mary, “Oral Health Status and Treatment Needs of Geriatric Population of Old Age Homes of Chennai, India”, Journal of Oral Health Research, Vol.1, Issue:2, pp. 82-86, 2010
- ❖ Vinita Mary, “Role of Neuropeptides in Pulpal Pathosis - An Overview” The Internet Journal of Dental Science ISSN: 1937- 8238, Vol.8, No.2, 2010

14. Honours/Awards to the faculty

Best Teacher Award is given to the faculty who had produced & performed well in the subjects they have handled. This is a regular annual feature. Certificate of merit given to 16 staff members and three of them were given shields.

Department of ECE

S No.	Name/s of Faculty	Award
1.	Mrs. CHETTIYAR VANI VIVEKANAND	Certificate

Department of MECHANICAL

S No.	Name/s of Faculty	Award
1.	Mr. J. KISHORE	Certificate
2.	Mr. P. RAVICHANDRAGANESH	Certificate

15. Internal resources generated

From Short term programmes organized by various departments (Amount in Rs.)

English	: 34514.00
ECE	: 156650.00
CSE	: 382338.00
EEE	: 43000.00
E&I	: 210312.00
IT	: 86730.00
IBT	: 609386.00
MECHANICAL	: 129300.00
MBA	: 163870.00
TOTAL	: Rs. 18,16,100.00

16. Details of Departments getting SAP, COSIST (ASSIST)/DST, FIST etc. Assistance / recognition

Details of the projects applied to different funding agencies in given below:

Project Applied (MECHANICAL)

Agency : SERC DST
 Project Title : Developoment and Characterization Study on SCR Catalyst to Meet Euro V Norms In CRDI Diesel Engine

Project Applied (CSE)

Agency : Department of Science & Technology, Government of India
 Project Title : Developoment a wireless Broadband Network for Industrial Application

Project Applied (CSE)

Agency : Ministry of Social Jusitce and Empowerment (Scheduled Castes Development Division) Government of India
 Project Title : Job Oriented Vocatinal Training on Website Development and Desk Top Publishing for Socio Economic Development of Educated Unemployed Youth

Project Applied (CSE)

Agency : Department of Information Technology, Government of India
Project Title : National Language Integration Tool for MMS Conversion of an unknown language script into known language script

Project Applied (CSE)

Agency : Department of Information Technology, Government of India
Project Title : Entrepreneurship Development Programme for Educated Unemployed Youths

Project Applied (CSE)

Agency : Tamil Nadu Adi Dravidar Housing Development Corporation (TAHDCO)
Project Title : Free coaching and Alliee Scheme for the candidates belonging to SC/ST communities

Project Applied (CSE)

Agency : Department of Information Technology, Government of India
Project Title : GPS Based Intelligent navigation system for Heavy vehicles

Project Applied (IBT)

Agency : DST-FAST Track
Project Title : To Investigate the Toll-like receptor (TLR) Signaling in Breast Cancer and evaluate the use of multiple TLR ligands for therapy

Project Applied (IBT)

Agency : AYUSH
Project Title : Anti-diabetic effect of the muco-gel isolated from the unripe fruits of Hibiscus esculentus

Project under Preparation (IBT)

Agency : ICMR
Project Title : To use salivary diagnostics for detection of progression in periodontal infections

Project under Preparation (IBT)

Agency : CSIR
Project Title : To analyze the metabolic pathways of eugenol biosynthesis in Ocimum sanctum Linn

Project in Preparation (IBT)

Agency : UGC
Project Title : Detection of HPV DNA sequences and Ras mutation in oral cancer Patients

17. Community Services

NATIONAL SERVICE SCHEME

BLOOD DONATION CAMP

A Blood Donation Camp by Dr. M.G.R. Educational and Research Institute, University was conducted on 14.08.2010 at A.C.S. Medical College and Hospital, Velappanchavadi, Chennai.



Er.A.C.S. Arun Kumar, President, Dr. M.G.R. Educational and Research Institute, University, Thiru A. Ravikumar, Secretary – A.C.S. Group of Institutions, Dr.C.B.Palanivelu – Addl. Registrar, Dr. Shaw Nawaz Khan – Dean – A.C.S. Medical College & Hospital, and Dr. G.C. Kothandan, at the inauguration of the Blood Donation Camp held at A.C.S. Medical College and Hosiptal.

The camp was successful, in as much as around 200 NSS Volunteers and Public, enthusiastically participated in the Blood Donation Camp. Apart from volunteers and public, some of the University Staff Members had also voluntarily come forward and donated blood. 110 Units of Blood was donated both by Volunteers and Staff Members.

Ill-Effects of Tobacco and its Products

A One-day Orientation Meet on “Ill-effects of Tobacco and its Products” was conducted by the NSS wing of Dr. M.G.R. Educational and Research Institute, on 10th March 2011 at our University.

Dr. K. Vasudevan-Principal, Thai Moogambigai Dental College and Hospital, Dr. Krithika-Reader, Thai Moogambigai Dental College and Hospital and Ms.

Prasanna Kannan – WHO-Consultant (TFI) and State Tobacco Control Cell, DPH & PM, Government of Tamilnadu addressed the gathering.

After the inauguration, Dr. K. Vasudevan in his speech informed that around 800 million people all over the world use Tobacco and its products. The main ingredient of tobacco, Nicotine is carried through our whole body through the veins and this nicotine deposits with the fatty particles and thereby slowly destruct the whole body.

In her special address, Dr. Krithika elaborately described the ill-effects of use of tobacco and its products. Tobacco kills in three main ways:

- ❖ By way of Cancer of Lung, liver, oral cavity, throat, larynx, urinary bladder, kidney, pancreas & stomach, esophagus.
- ❖ By way of Cardio-vascular diseases (ischemic heart diseases, stroke)
- ❖ By way Respiratory Diseases (chronic obstructive lung diseases, bronchitis, pneumonia)

Use of tobacco and its products will lead to Impotency, Lower Fertility, Birth defects in children, Blindness, Decreased lung function, Tuberculosis, in the life of a human being.

Ms. Prasanna Kannan, in her special address told the volunteers and students about the Prohibition Act (Cigarettes & other Tobacco Products – COTPA-2003), on use of tobacco and its products.

Under this Act, there are four punishable sections for the use of tobacco and its products. She also explained about various other ill-effects of tobacco products through her power point presentation.

JAPANESE STUDENTS visit to Dr. M.G.R. Educational & Research Institute

On the eve of the 14th Japan India Students Conference, 9 students from Japan visited Dr. M.G.R. Educational and Research Institute, on 28 August 2010. This programme was organized by the NSS wing of the University in association with ABK-AOTS DOSOKAI [Alumni Association of ABK & AOTS, Japan], Tamilnadu Centre, and Chennai, with whom the University is having a tie-up. The Japanese students visited Chennai and exchanged educational and cultural experiences with students of Dr. M.G.R. Educational & Research Institute.



Prof. Uma Rajaram welcoming the Japanese Students

BUSINESS SCHOOL OF SINGAPORE POLYTECHNIC

31 students of Business School of Singapore Polytechnic visited Dr. M.G.R. Educational & Research Institute on 06.10.2010 as a part of their “Study Mission” to South India. Their main purpose of the visit is to know about the Indian Education and Students Culture in South India.

This programme was organized by the NSS wing of the University as a part of their activities. Volunteers guided the Singapore Polytechnic students through the University till the end of their departure.



Vice Chancellor Dr. M.K. Padmanabhan briefing the students of Singapore Polytechnic

WOMEN'S DAY CELEBRATIONS

Women's Day was conducted by NSS wing of Dr. M.G.R. Educational and Research Institute on 8th March 2011 at our University Campus.



The Women's Day was celebrated with lot of enthusiasm.



Various competitions were conducted for the Women's Day and there was good response from the volunteers and students. The Winners were presented with mementos.

MEDICAL HEALTH CAMP

A Medical Health Camp was conducted by Dr. M.G.R. Educational and Research Institute, on 17.10.2010 at A.C.S. Medical College and Hospital, Velappanchavadi, Chennai, for all the students of the University.

Founder-Chancellor Thiru A.C. Shanmugam inaugurated the function and gave the Health Club Cards to University Students. Smt. S. Lalitha Lakshmi, Chairperson of the Trust, Er. A.C.S. Arun Kumar, President, Dr. M.G.R.

Educational & Research Institute, Dr. K. Padmanabhan, Vice Chancellor of the University, Thiru A. Ravikumar, Secretary - ACS Group of Institutions, Dr. C.B. Palanivelu – Registrar, Dr. G.C. Kothandan – Executive Director, Dr. Shaw Nawaz Khan – Medical Director, A.C.S. Medical College and Hospital participated.

Programme Coordinator Mr. P.S. Rajakumar, Programme Officers Mrs.S.Geetha, Mr.G. Sriram and Mr. M. Kumaresan actively participated and organized the Camp.



Founder-Chancellor Thiru A.C. Shanmugam giving away the Health Club Books, to University Students at Medical Camp held at A.C.S. Medical College and Hospital, Velappanchavadi

More than 1000 students and around 250 NSS Volunteers enthusiastically participated in the Health Club Camp and received their individual Health Club Cards. Apart from volunteers and students, some of the Staff Members had also voluntarily come forward and actively participated

18. Teachers newly recruited

STAFF NEW JOINING MONTH WISE

January-2010

SL.NO	NAME OF THE STAFF	DEPT	QUALIFICATION	DESIGNATION
1	MS.SIVA SAKTHI.A (05.01.2010)	CHEMISTRY	B.Sc., M.Sc.	TEACHING ASST
2	MS.S.SUBASHINI (28.12.09)	ECE	B.E., M.E.,	ASST.PROF
3	MR.P.DINESH (21.12.09)	MECH	DME., B.E., (M.E.)	TEACHING ASST
4	MS.S.SANDHYA (04.01.2010)	IBT	B.TECH., M.TECH	ASST.PROF
5	MR.S.SRINIVASAN (28.01.2010)	EEE	B.E., M.E.	ASSOC. PROF.(1)

February-2010				
1	MS.S.BHUVANESWARI (11.02.2010)	EEE	B.E., M.E.	ASST.PROF
2	MS. A.NIRMALA (15.02.2010)	EEE	B.E., M.E.	ASST.PROF
3	MS.P.DHIVYA BHARATHI (15.02.2010)	E&I	B.E.	TEACHING ASST
March-2010				
1	MR.B. RAJAN (04.03.10)	ECE	(Ph.D)	ASSOCIATE PROFESSOR
2	MR.J.KISHORE KUMAR (25.02.2010)	MECH	D.A..E (Automobile), B.Tech	TEACHING ASST
June-2010				
1	MS.A.RATHI 18.06.2010	MATHS	B.Sc.,M.Sc.,M.Phil	ASST.PROF
2	DR.S.S.JAYANTHA KUMAR 18.06.2010	PHYSICS	B.Sc.,M.Sc.,M.Phil., Ph.D.	PROFESSOR
3	MS.R.ATHILAKSHMI 18.06.2010	CSE	B.E., M.Tech.,	ASST.PROF
4	MS.T.GODHAVARI 18.06.2010	ECE	B.E.,M.Tech.,(Ph.D)	ASSOCIATE PROFESSOR
5	MS.S.PRABAVATHI 18.06.2010	ECE	B.E., M.E.,	ASST.PROF
6	MR.J.SHANKAR 18.06.2010	ECE	B.E.,M.E.	ASSISTANT PROFESSOR
7	MS.N.VINI ANTONY GRACE 18.06.2010	ECE	B.E., M.E.	ASSISTANT PROFESSOR
8	MS.JOYCE KIRUBA 18.06.2010	ECE	B.Tech.,M.Tech.	ASST.PROF
9	MS.G.GUGA PRIYA 18.06.2010	EEE	B.E.,M.E.	ASSOC.PROF (1)
10	MS.T.RAMA 18.06.2010	EEE	B.E.,M.E.	ASST.PROF
11	MR.S.RANGANATHAN 18.06.2010	E&I	B.E.	TEACHING ASST
12	MR.ARUNKUMAR 18.06.2010	MECH	B.E., M.E.(P.h.D)	ASSISTANT PROFESSOR
13	MS.N.RAJESHWARI 18.06.2010	MECH	B.E.,M.E.,P.h.D.	PROFESSOR
14	MS.N.KANYA 18.06.2010	IT	B.Sc.,M.Sc., M.Tech.	ASSOC. PROF.
15	MR.M.ARUMUGAM (REJOIN 28.05.2010)	CIVIL	B.E., M.E.,	Professor
16	MR.R.SUBASH CHANDRA BOSE 18.06.2010	CIVIL	B.E.,M.E.(Ph.D)	ASSISTANT PROFESSOR
17	MS.ESWARY DEVI 18.06.2010	CIVIL	B.E.,(M.E)	TEACHING ASST
18	MS.P.SATHIYA PRIYA 18.06.2010	CIVIL	B.E.	TEACHING ASST
19	MS.I.KAMINI 18.06.2010	CIVIL	B.E.(M.E)	TEACHING ASST
20	MS.ANU THANKAPPAN 18.06.2010	CIVIL	B.E.M.E.	LECTURER
21	MR.DON ISAAC 18.06.2010	CIVIL	B.E.(M.E)	TEACHING ASST
22	DR.N.SRIVIDYA REJOIN	MBA	B.Tech. MBA., Ph.D	ASST. PROF

	18.06.2010			
23	MS.G.PRIYA 18.06.2010	IBT	B.Sc.,M.Sc,M.Phil.	ASST.PROF
24	MS.CHETTIYAR VANI VIVEKANANDAN rejoin 16.06.10	ECE	B.E., M.E.,	ASSOC. PROF.
25	MS.A.SHANMUGA PRIYA 18.06.2010	E&I	B.E.M.Tech.	ASST.PROF
26	MS.VALLIMMAI 18.06.2010	CSE	B.E.	TEACHING ASST
July-2010				
1	MS.DHANALAKSHMI 16.07.2010	IT	B.Tech., M.Tech.	ASST.PROF
2	MS.J.PUNITHA 16.07.2010	MCA	B.Com.,MCA, M.E	ASST.PROF
3	MS.K.DHIVYA 16.07.2010	CSE	B.E., M.TECH.	ASST.PROF
4	MR.T.GOPALAKRISHNAN 16.07.2010	ECE	B.E.	TECHING ASST
5	MS.J.SHEEBA 16.07.2010	ECE	B.E.	TECHING ASST
August-2010				
1	MS.B.LATHA REJOIN 09.08.2010	PHYSICS	B.Sc., M.Sc.,M.Phil.,	ASST. PROF.
2	MR.KOLLABHANU PRAKASH 09.08.2010	CSE	B.Sc.,M.Sc.,M.Phil.,M.E	ASST.PROF
3	MS.KALAIVANI 20.08.2010	CSE	B.E	TEACHING ASST
4	MS.NISHITHA 02.08.2010	ECE	B.E	TEACHING ASST
5	MR.MERLIN SATHIA RAJ REJOIN 12.08.2010	ECE	B.E.,M.E,	ASST.PROF
6	MS.K.PRASANNA LAKSHMI 16.08.2010	ECE	B.E.,M.E.	ASST.PROF
7	MS.PRABAVATHI 09.08.2010	EEE	B.E.,M.E.	ASST.PROF
8	DR.P.SUBBAIH 11.08.2010	E&I	M.TECH.,Ph.D.	PROFESSOR
September-2010				
1	MS.V.VIDHYA 26.08.2010	ECE	B.E.	TEACHING ASST
2	MS.PADMA KOLLA 20.09.2010	ECE	M.Sc.,M.PHIL.,	ASST.PROF
3	MS.P.BHANU 02.09.2010	EEE	B.E.,M.TECH.	ASST.PROF
4	DR.PALANISAMY 26.08.10	MECH	B.E.,M.Tech.,P.h.D.	PROFESSOR
5	DR.RM.NARAYANAN 26.08.10	CIVIL	B.Sc.M.Sc.,Ph.D.	ASST.PROF
6	DR.C.SIVAPRAKASAM 03.09.10	CIVIL	B.E.M.E.,MBA, Ph.D.	PROFESSOR

October-2010				
1	DR.P.KALIDOSS 06.10.2010		B.Sc., M.Sc., M.Phil. Ph.D.,	JOINT REGISTRAR
Dec-10				
1	MR.RAMADHASS 02.12.2010	MECH	B.E.,M.E.	ASSOCIATE PROFESSOR
2	MR.ESAKKIAPPAN 01.12.10	E&I	B.E.,M.E.(Ph.D)	ASSOC PROF
3	MS.ESWARY DEVI REJOIN 01.12.10	CIVIL	B.E.(M.E)	TEACHING ASST
4	MS K.RADHIKA 01.12.10	CIVIL	B.E.M.E.(Ph.D)	ASST.PROF
5	MR.M.KALASEKAR 01.12.2010	CIVIL	B.E., M.TECH.	ASSOC PROF
January-2011				
1	MS.K.MEENAKSHI 9.01.2011	CSE	B.E.	TEACHING ASST
2	MS.S.RADHIKA 20.01.2011	MECH	B.Tech	TEACHING ASST
3	MR.C.B.SENTHIL KUMAR 20.01.2011	MBA	M.COM,MBA, M.Phil, (Ph.D)	ASSOCIATE PROF
February-2011				
1	DR.P.MURUGESAN 04.02.11	MECH	B.E M.E Ph.D	PROFESSOR
March-2011				
1	DR.GAYATHRI 17.03.11	PHYSICS	B.Sc., M.Sc., M.Phil, Ph.D.	PROFESSOR
2	DR.M.SRINIVASAN	EEE	B.E.,M.E.,Ph.D.	PROFESSOR
3	DR.DURAI ARUL NEYAM 07.03.11	CIVIL	B.E., M.E.,Ph.D.	PROFESSOR
June-2011				
1	DR.V.PRASANNA KUMARI 06.06.2011	CSE	B.Sc., MCA, M.Phil, Ph.D.	PROFESSOR
2	MR.K.MANIVANNAN 20.06.2011	ECE	AMIE,M.E	ASST.PROF
3	DR.V.GANESAN 06.06.2011	EEE	B.Sc.,M.E.,Ph.D.	PROFESSOR
4	MS.G.PANDI SABREESWARI 06.06.2011	EEE	B.E.,M.E.	ASST.PROF
5	DR.J.JAYAPRAKASH 06.06.2011	MECH	B.E.,M.E.,Ph.D.	PROFESSOR
6	DR.S.MOSES ARANGANATHAN 06.06.2011	CIVIL	B.E.,M.E.,Ph.D.	PROFESSOR
7	MS.MANJULA.S 06.06.2011	CIVIL	B.E.,	TEACHING ASST
8	MR.SAILEYSH SIVARAJA.S 07.06.2011	CIVIL	B.E.,MS.	ASSOC PROF
9	MR.VIJAY SAMUEL.G 06.06.2011	IBT	B.TECH.M.TECH.,	ASST.PROF
10	MS.C.GANDHIMATHI REJOIN	EEE	B.E. M.E.,	ASST.PROF

	06.06.2011			
11	MS. M. SUJITHA REJOIN 06.06.2011	EEE	B.E. M.E.,	ASST.PROF
12	MS.AKILANDESWARI REJOIN 13.06.2011	EEE	B.E. M.E.,	ASST.PROF
13	MS.K.RATHNA PRIYA REJOIN 06.06.2011	E&I	B.E. (M.Tech)	TEACHING ASST
14	MR.R.VIJAYA BALAN REJOIN 15.06.2011	CIVIL	B.E., M.E.	PROFESSOR
July-2011				
1	MR.BOMMA RAMANJANEYULU 05.07.11	CHEMICAL	B.Tech., M.Tech.	ASST. PROF

19. Teaching – Non-teaching staff ratio:

Faculty / Student Ratio : 1:14

Teaching / Non-Teaching Ratio : 1:1

20. Improvements in the library services:

- ❖ *Enhancement* of 3m library system management for the security of Library materials
- ❖ 10 new computers were additionally connected for the Internet section of the library.
- ❖ Library services were extended for all seven days except on government holidays
- ❖ Alphabetical arrangements of library books were upgraded.
- ❖ Bar coding of new books purchased were undertaken.

21. Number of new books / journals subscribed and their value:

1. New Books purchased : 1006 Volumes
2. Value of E-Journals subscribed : Rs. 14,70,710.00

**YEAR 2010- 2011
NATIONAL JOURNALS**

S.NO	BRANCH	TITLE	Nos.
1.	CSE	I-MANAGERS JNL ON SOFTWARE ENGINEERING	1
2.	CSE	I-MANAGERS JNL ON FUTURE ENGG & TECH	1
3.	CSE & IT	IND JNL OF INFORMATION SCIENCE AND TECH	1
4.	CSE & IT	IND JNL OF COMPUTING TECH	1
5.	CSE & IT	CURRENT DEVELOPMENT ARTIFICIAL INTELLIGENCE	1
6.	EEE	I – MANAGERS JNL OF ELECTRICAL ENG	1
7.	EEE	POWERLINE	1
8.	EEE	ELECTRONICS TODAY	1

S.NO	BRANCH	TITLE	Nos.
9.	ECE	JNL OF PURE AND APPLIED ULTRASONIC	3
10.	ECE	JNL OF ELECTONIC NETWORK DEVICE	1
11.	ECE	JNL OF ELECTONIC COMMUNICATION ENG	1
12.	ECE	JNL OF MICRO CIRCUITS AND ELECTRIC	1
13.	E&I	AUTO ELECTRONICS	1
14.	MECHANICAL	MOTOR – TAMIL	3
15.	MECHANICAL	AUTO – MONITOR	1
16.	MECHANICAL	INT JNL OF MECHANICAL ENG & MATERIAL SCIENCE	1
17.	MECHANICAL	MINERALS AND METALS REVIEW	1
18.	MECHANICAL	IE MECHANICAL ENGINEERING	1
19.	CIVIL	BUILDERS FRIEND	6
20.	CIVIL	CIVIL ENGI CONSTRUCTION REV	4
21.	CIVIL	JNL OF POLYMER MATERIALS NO 4	1
22.	CIVIL	JNL OF INDIAN WATER WORKS ASSN	1
23.	CIVIL	CONCRETE ENG INTERNATIONAL	1
24.	CIVIL	ACI: STRUCTURAL JNL	1
25.	IBT	JOURNAL OF CLINICAL MICROBIOLOGY	1
26.	IBT	MICRO BIOLOGY MOLECULAR BIOLOGY REVIEW	1
27.	MBA	I – MANAGERS JNL OF MANAGEMENT	1
28.	MBA	INDUSTRIAL ECONOMIST	4
29.	MBA	JNL OF ENTERPRENEURSHIP	1
30.	MBA	WRI JOURNAL	1
31.	MBA	SCMS JOURNAL OF INDIAN MANAGEMENT	1
32.	MBA	JOURNAL OF BUSINESS MANAGEMENT	1
33.	ENGLISH	JNL OF INDIAN RITING IN ENGLISH	1
34.	ENGLISH	ENGLISH TEACHING PROFESSINAL(BC)	1
35.	ENGLISH	THE JOURNAL OF ENGLISH TEACHING	1
TOTAL			50

YEAR 2010- 2011
INTERNATIONAL JOURNALS

S.NO	BRANCH	TITLE	Nos.
1.	CSE	NEW SCIENTIST	8
2.	CSE	COMPUTER GRAPHICS WORLD	4
3.	CSE	INTL JNL OF INFORMATION 7 TECH & DECISION MAKING	1
4.	CSE	COMPUTER SCIENCE RESEARCH & DEVELOPMENT	1
S.NO	BRANCH	TITLE	Nos.
5.	EEE	ELECTRONIC WORLD	15

6.	EEE	ELECTRICAL ENGINEERING	1
7.	ECE	TRANSMISSION & DISTRIBUTION	4
8.	ECE	WIRELESS NETWORK	1
9.	ECE	SIGNAL IMAGE & VIDEO PROCESSING	1
10.	MECHANICAL	POPULAR MECHANICS	3
11.	MECHANICAL	THE ENGINEER	3
12.	MECHANICAL	SAE AUTOMOTIVE ENGG	2
13.	MECHANICAL	ASCE: ENGINEERING MECHANICS	1
14.	MECHANICAL	ASCE: MANUFACTURING SCS AND ENGINEERING	1
15.	CIVIL	ASCE: STRUCTURAL ENGINEERING	1
16.	CIVIL	STEEL AND COMPOSITE STRUCTURES	2
17.	CIVIL	EXPERIMENTAL MECHANICS	2
18.	CIVIL	JOURNALS OF METALS	3
19.	ENGLISH	MODERN ENGLISH TEACHER	1
20.	ENGLISH	EARLY AMERICAN LITERATURE	1
TOTAL			56

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

Students' assessment of teaching is done at the end of every semester for all courses. A sample of this is given below. The teachers are advised accordingly and their improvement is assessed next semester.

It is been found that this exercise benefited both faculty and students.

S. No	Faculty	Name of Students	Improvement	Remarks
1	Mr.K.Selvam	Amarnath baitha	yes	Good
		K.arivanantham	yes	Satisfactory
		Ashwini anuranjan	yes	Good
		G. Santhosh kumar	yes	Good
		M.Abirami	yes	Good
		Niranjan kumar	yes	Good
2	Mrs.M.S.Josephine	R. Bharani	yes	Good
		Bhawani shankar sahu	yes	Good
		T. Dinesh kumar	yes	Good
		Sudhanshu kumar	yes	Good
		C.Anbu raja	yes	Good
		A. Brigien shilpa	yes	Good
3	Mr.C.Subramanian	T. Gowthamb	yes	Good
		S. Karthikeyan	yes	Good
		M. Karunakara reddy	yes	Good
		R.Ekta Jha	yes	Good
		Karthik kumar	yes	Good
		P. Saranya	yes	Good
4	Mrs.K.Deepa	Lalatendu parida	yes	Good
		M. Mahesh	yes	Good
		Md. Faiz Anwar	yes	Good

		Sumita Gupta	yes	Good
		Sneha Gupta	yes	Good
		S. Kamal	yes	Good
5	Mrs.V.Sarala Devi	Md. Samim Ansari	yes	Good
		Raj kumar Dahal	yes	Good
		Santosh kumar	yes	Good
		L. Deepak Singh	yes	Good
		Koushik Paul	yes	Good
		M.arunselvan	yes	Good
6	Mrs.S.Nirmala	Tripti kumari	yes	Good
		Vimal kumar	yes	Good
		Sawan kumar	yes	Good
		Gautam Datta	yes	Good
		Pawan kumar Mahakud	yes	Good
		Raj kumar Das	yes	Good
7	Mr.S.MohanDoss	Kanuri ramakrishna	yes	Good
		S. Suresh kumar	yes	Good
		Avinash kumar Jha	yes	Good
		Soumya ranjan Panda	yes	Good
		S.Jayalakshmi	yes	Good
8	Mr.S.Karthikeyan	Neetesh kumar	yes	Good
		K.V. Kamesh Balaji	yes	Good
		S. Prabhu	yes	Good
		S. Saravanan	yes	Good
		Deepak kumar Sahu	yes	Good
		Raj kamal ranjan	yes	better
9	Ms. Mercy Beulah	R. Kuttimani	yes	Good
		M. Sivashankar	yes	Satisfactory
		Kumar Gaurav	yes	Good
		A. Krishna Sahitya	yes	Good
		Somanath Goswami	yes	Good
		C. Senthil	yes	Good
		Tinku kumar	yes	Good

23. Unit Cost of Education:

Number of Students	:	7286
Student (Per Capita)	:	Rs 1, 03,460
Fees/Income		
Student (Per Capita)	:	Rs 1, 03,460

Expenses/Including staff Salaries

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

All Systems like administration and the process of admissions and examination results, issue of certificates are fully computerized.

25. Increase in the infrastructure:

- ❖ AK Block has been completely renovated. Added one Smart Class room for Robotics.
- ❖ Centre for Research in EEE department (C-WET) is established.
- ❖ New Canteen building inaugurated.
- ❖ Laboratories in the departments of ECE & EIE were refurbished and made smart, in the Anna Block.
- ❖ More than 400 Computers were added during the year
- ❖ Fiber Optic Cable laid in the entire campus connecting all the departments to facilitate Internet Connection
- ❖ All new blocks have Wi-Fi connection
- ❖ IBM Centre of Excellence was established in the CSE department
- ❖ Academic Staff College with a fully computerized lecture hall has been established. (First course: a mission 10X by Wipro Technology was organized for 8 to 12 schedules.)

26. Technology up-gradation:

- ❖ Advanced Research Tools for Theory & Practice
- ❖ Dental Operating Microscope
- ❖ Diagonodont for Caries
- ❖ Digital OPG



DENTAL OPERATING MICROSCOPE



DIGITAL OPG



DIOGONODENT FOR CARIES

**Inter-Disciplinary Liquid Nitrogen Use as a Tool for Removal of Lesions, Warts
(Mechanical Engineering, Dental Surgery, Medical Surgery)**



Liquid Nitrogen Cylinder with Nozzle



Nozzles and Accessories

CENTRES OF EXCELLENCE

Centres of Excellence exist in the departments of

- ❖ Computer Science and Engineering
- ❖ Information Technology
- ❖ Electrical and Electronics Engineering
- ❖ Industrial Bio-technology
- ❖ Electronics and Communication Engineering
- ❖ Mechanical Engineering
- ❖ Automobile Engineering
- ❖ Electronics and Instrumentation Engineering

Department of Computer Science and Engineering / IT

- ❖ Centre for Semantic Web (Farm & Agro Specialization)
- ❖ Oracle(Workforce Development Program)
- ❖ IBM Centre of Excellence
- ❖ Mobile Application Development
- ❖ Information Security and Cyber Forensics
- ❖ CIRRUS (Cloud Computing)
- ❖ Robozza (Department of Information Technology)

Department of Industrial Biotechnology

- ❖ Centre of Excellence in Biotechnology

Department of Electrical and Electronics Engineering

- ❖ SUPERCEN (Sustainable Power and Energy Research centre)

Department of Electronics and Communication Engineering

- ❖ Centre of Excellence in Electronics and Communication Engineering

Department of Electronics and Instrumentation Engineering

- ❖ Centre of Excellence in Electronics and Instrumentation Engineering

Department of Mechanical Engineering

- ❖ Centre of Excellence in Mechanical Engineering
- ❖ Centre of Excellence in Automobile Engineering

Advanced Research Institute (ARI)

ARI was set up to undertake Research & Development, basically to cater to the needs of the Industry / other agencies

DRDO SF Complex, Jagdalpur

- ❖ Design and Development of Collapsible Mandrel. AARI scientists had completed design filed a Patent. (Ref: Patent No. 47/CHE/2011 dated 7/01/2011 for Splitted Collapsible Mandrel for Intricate Port

Configuration in Solid Rocket Motor Casting). The Collapsible Mandrel design for S3C Rocket motor is ready for review.

- ❖ Scientists from DRDO visited ARI in end July 2011 for review and approval of the proposal
- ❖ High Specific Impulse Propellant Preparation using Nano Aluminium: A workshop was held with DRDO sponsorship at Kodaikanal Institute of Technology in March 2011. Proposal is under preparation.
- ❖ Wireless Data Acquisition of Static Testing: Under Concept Development.

MINISTRY OF NEW AND RENEWABLE ENERGY

- ❖ Solar Cooling. Basic Design is ready Literature Survey for Detailed Proposal Preparation is planned

HOME MINISTRY

- ❖ Preventing Neck Injury of Bullet Proof Helmet Wearers. Concept Development underway

AEROSPACE AGENCIES

- ❖ Fabrication Facility for Casting Aluminium Silicon Carbide (AlSiC) Metal Matrix Composite (MMC)
- ❖ Innovative Drilling Facility for AlSiC- MMC

BASIC SCIENCES RESEARCH LAB

- ❖ Advanced Research Institute (ARI)
- ❖ Entrepreneurship Programme Development Cell

RESEARCH CENTRE - THAIMOOGAMBIGAI DENTAL COLLEGE AND HOSPITAL

TITLE OF THE INVENTION

Eco-friendly energy efficient refrigerant mixture for refrigeration and air-conditioning systems

INVENTORS

Dr. D.B. Jabaraj (Dr. M.G.R. Educational & Research Institute)

Dr. D. Mohan Lal (Anna Univ.)

Application No: 941/CHE/2005 Filing Date : 14/07/2006

TITLE OF THE INVENTION

Splitting Collapsible Mandrel for intricate port configuration in solid Rocket motor casting.

INVENTORS

ARI (R & D) Centre

Dr. M.G.R. Educational & Research Institute, Chennai-95.

Application No: 47/CHE/2011 Filing Date: 7/1/2011

Filing Date : 24/1/2011

27. Computer and Internet access and training to teachers and students

Sufficient numbers of computers are there in every department for the students and faculty to access Internet. The whole campus is WI-FI enabled.

As our teachers are engineering graduates, all of them have a thorough knowledge in the use of computers and Internet access. The students also have knowledge about internet access and the facility to use their Laptops. The 1st year students are provided with one Laptop each.

The computer training is planned for the last grade staff.

28. Financial aid to students

101 students are being provided financial aid in the form of freeships / scholarships based on their family background, performance academically and otherwise. They are supposed to make an application at the beginning of every Semester.

29. Activities and support from the Alumni Association:

Name of the Programme : Alumni Meet'10

Type of the Programme : Alumni Meet

Organising Secretary : Mr.Kalaigan and Mr.Vijayakumar

Cultural Report

Our University organized its Alumni Meet in August 2010.

The dates of this Meet were declared in the month of July 2010 itself and the news spread far and wide. Many of the alumni played an active role in contacting their batch-mates and others. The Meet was attended by 15 alumni batches that graduated in year 1990 (First Graduating Batch) till 2005.

There was special enthusiasm in the batches graduating from year 1990 to 1999. More than about 300 alumni from this group attended the Meet. It was a great pleasure to know about their accomplishments in their professional careers. Most of them were visiting their Alma Mater for the first time since their graduation, and naturally were thrilled to be back in the campus again. About twenty alumni attended the Meet with their spouses and children. They very proudly took their families around the campus and showed the places where they lived and spent their college days.

The Chairman of our university, Thiru A.C.Shanmugam and our President Er.ACS Arun Kumar inaugurated the Alumni Meet. Addressing the Inaugural function the Vice Chancellor Dr. Padmanaban welcomed the Chief Guest, Alumni and their family members. He said that Alumni are the brand ambassadors of the Institution and a very vibrant relationship must be established and nurtured. For the batches which studied when Dr. Srinivasagopalan was their Principal, it was really very touching for them to meet him, after such a long time.

In the post lunch session, the alumni visited their respective departments. The Heads of each of the departments took them around the various laboratories and other departmental facilities and presented the recent progress and activities. After the presentation, discussion on the future developments ensued and alumni came up with many suggestions regarding the change in the syllabi of courses, laboratory developments etc. They also offered their services towards the growth of the Departments.

The evening was devoted to recreation through cultural activity. The current students of Dr. M.G.R. Educational & Research Institute presented some events. The cultural events were inaugurated by the film actors Mr.Arun Vijay and Mr.Chinni Jayanth. Some programmes by the children of Alumni were also staged. At the end of the cultural events staged inside the Auditorium, with fast tunes of music, alumni and their family members, children and faculty members danced outside the Auditorium. The crowd was thrilled and electrified when the actors also joined the dancing group. Everyone was moved by the emotions of the dancing alumni. The dancing continued till late night with many persons joining back the dance party after their dinner was served. Many smaller groups of Alumni, faculty could be seen chatting, singing and sharing memories till the wee hours.

Many of the Alumni expressed their willingness to help Dr. M.G.R. Educational & Research Institute in training, placement, development of modern laboratories, and delivery of expert lectures in emerging areas of technology. A feedback was also collected from alumni regarding the organizational aspects of the Meet and their suggestions for improvement in professional training at Dr.

M.G.R. Educational & Research Institute. The Alumni Meet closed on a very emotional note. However, everyone appreciated the efforts by the Dr. M.G.R. Educational & Research Institute in organizing the Meet for the first time. Everyone departed with the resolve to visit again and spread the message amongst all who could not visit this time.

30. Health Services

- ❖ A Full-Time Doctor is Campus (Phase II) - caters to the need of students and also to the Hostel
- ❖ ACS Medical College - Free treatment for Staff/ Faculties & Students
- ❖ Medical Cards given to all the Teaching / Non-teaching Staff of the University.
- ❖ Medical & Dental Camps are organized once in every semester to help the poor in and around the University campus.

31. Performance in Sports Activities

Physical Education is part of a wider process of education. One view of education is that, it is a process that seeks to transmit, evaluate and enrich aspects of culture. Sports as a cultural form are valued all over the world. It plays a vital role in everyday life. Sporting activities can provide a healthy and enjoyable leisure pursuit throughout one's life, assist in social and community harmony and build up civic and national pride and create an impact on the economy.

Our Philosophy relates to Sport in its widest possible context

We endeavour to provide an opportunity for all our students to take part in varied sporting programmes.

- ❖ We aim to develop their understanding of the need for a healthy, active lifestyle, to promote a willingness to participate, an ability to empathize with others and a love of physical activity that will provide an enjoyable leisure pursuit in later life.
- ❖ Evidence suggests that regular physical activity is beneficial to health and well being in today's stressful, fast-moving society. People who are healthy usually have a positive outlook on life and are better equipped physically and mentally to cope with the rigours of modern living.
- ❖ Our programme aims to equip students with the knowledge, understanding, concepts, values and attitudes to adopt an active lifestyle.

- ❖ Voluntary and long-term participation in sports is dependent on individuals feeling competent and confident enough to participate at their own level. It is of prime importance that Physical Education is a positive experience, made accessible, stimulating and enjoyable and that every student feels valued, whatever the standard.

To cater for the different needs of our students, we include a wide range of sports, from as many cultural backgrounds as possible, with as many cross-curricular ties as possible. Health and fitness training is integral to all parts of the curriculum.

Physical Facilities

❖ Basketball Courts	2
❖ Football Field	1
❖ Cricket Pitch	1
❖ Volleyball Courts	2
❖ Ball Badminton Courts	2
❖ 200 Metres Track	1

We have with us the following equipment and facilities to provide our students whenever they need.

Equipment

Table Tennis Boards, Cricket Kits, Badminton Bats, Table Tennis Bats, Stop Watches, Leg Pump, Iron Shots, Discus, Javelins, Carrom Boards, Chess Sets

We have very good Physical facilities like Football, Volleyball, Basketball, Tennis, Basketball, Cricket play fields within the campus. The scholars could use the Multi Gym Facilities available in the Department.

The following are the participation and achievements of our students in various fields of sports and Games during 2010–2011

UNIVERSITY TOURNAMENTS & SPORTS

All India Inter University Sports:

- ❖ Balaji Srinivasan, II Year IT, participated in the All India Inter University Championship (I zone) under 100 Kg category held at Jai Narain Vyas University, Jodhpur in January 2009.

OPEN & INVITATION TOURNAMENTS

- ❖ Sathyabama Institute of Science and Technology, Chennai organized **Dr. MGR Memorial Cricket Tournament** from **24th January 2010 to 29th January 2010** and our College team fought through the quarterfinals.
- ❖ Our University Boys Basketball team participated in B.S. Abdur Rahman University, Chennai on **05/02/2011** and won III place

- ❖ Our University Boys Football team participated in B.S. Abdur Rahman University, Chennai from **7/02/2011 to 10/02/2011** and won II place with a cash prize of Rs 2000
- ❖ Our University Boys Basketball team participated in Bharat University, Chennai from **07/02/2011 to 08/02/2011**.
- ❖ Our University team played in the XXIII DANIS ESAU MEMORIAL CUP, a State Level Inter-Collegiate Football Tournament, held in Madras Christian College from **8th March 2011 to 10th March 2011** and won II Place.
- ❖ Mr. Ashis Kumar Jha of III Year EEE 'A' participated in the 11th ADAYAR TIMES New Millennium FIDE Rated Open Chess Tournament from **19th to 24th July 2011** and got 3.2 points in the All India Rating.
- ❖ Mr. Ashis Kumar Jha of III Year EEE 'A' participated in the 2nd KAC FIDE Rating Tournament - from **13th to 16th August 2011** and got 4.5 points in the All India Rating.
- ❖ Mr. Ashis Kumar Jha of III Year EEE 'A' participated in the 2nd State Level Open Chess Tournament for students Organised by Savetha University from **20th to 21th August 2011** and got 6.5 points in the All India Rating.
- ❖ Mr. Ashis Kumar Jha of III Year EEE 'A' participated in the 2nd Home Land International FIDE Rating Chess Tournament Organised by King Chess Foundation from **26th to 28th August 2011** and got 4.5 points in the All India Rating.
- ❖ Mr. Ashis Kumar Jha of III Year EEE 'A' participated in the 1st International FIDE Rating Chess Tournament Organised by Legends Chess Academy from **1st to 4th September 2011** and got 5 points in the All India Rating.

ACADEMIC ACTIVITIES

As Credit Based Semester System is being followed in our University, all the students of I Semester should pass a 3 Credit course in Health Science, which is aimed at keeping the Engineering students fit and healthy. This course is a combination of Fitness Exercise (Practical programmes with suitable knowledge classes comprising of 2 lecture hours and 2 practical hours every week).

The knowledge input is on the following topics

Health: Concept of Health, Dimensions of Health, Determinants of Health, Health Hazards of Modern Living & Growth and Development

Body System Responses to Exercises: Cardiovascular System, Respiratory System, Nervous System, Digestive System & Sensory Organs

Food and Nutrition: Factors affecting Nutritional status, Nutritional status, Nutritional Needs, Balanced Diet & Exercises and Food

Systems of Exercise: Calisthenics, Aerobics and Anaerobic, Isotonic, Isometric and Isokinetics, Injuries and First Aid, Suitable Exercises for different Age Groups

Yoga: Steps of Yoga, Simple Yogic Exercises for Health, Pranayama, Meditation and Yoga on Mental Faculties, Yoga on Different body functions

The Practical input on the following topics is carried out through demonstration, participation and practice.

- ❖ Body Building Exercises
- ❖ Energy Giving Exercises
- ❖ Flexibility Exercises
- ❖ Yogic Exercises
- ❖ Pranayama
- ❖ Suryanamaskars
- ❖ Fitness and Body conditioning Exercises
- ❖ Meditation, Concentration and other mind control exercises.
- ❖ Nature Foods and Nature Cures.

To start Bachelors' Degree Courses on Sports Management, Sports Psychology and Sports Training.

32. Student achievements and awards

Department of ECE

- ❖ Dhanush Dharmaretnam and Nishant Kumar of ECE 4th year Published a Research paper on "AN INTELLIGENT WATER DISTRIBUTION SYSTEM APPLYING EMBEDDED TECHNOLOGY", International Conference on Systematics, Cybernetics and Informatics organized by Pentagon Research Institute, Jan 4th - Jan 7th 201, Hyderabad.
- ❖ PANKAJ KUMAR, ECE IV Year published a paper on "An Expert System For Water Treatment" for IET 360. He was awarded with 1st prize under the category *Industries Defined Problems*.
- ❖ Nishant Kumar and Dhanush Dharmaretnam of ECE 4th year won 1st prize for the quiz organized by IET UK during IET 360 conducted on March 11th-12th at Dr. M.G.R. Educational & Research Institute.
- ❖ Nishant Kumar and Dhanush Dharmaretnam of ECE 4th year won 1st prize for the event 'TRANSFORMERS' organized by IET UK during IET 360 conducted on March 11th-12th at Dr. M.G.R. Educational & Research Institute.
- ❖ ARINDAM ROY, KAUTILYA BORA and VAIBHAV of ECE 4th year represented our college in ANVESHANA, an even organized by IIT-Madras in association with Shastra 2011. They won 1st prize for the event.

- ❖ ABHINAB GHOSH, ECE IV Year published a paper on “Unmanned Automated Level Crossing” for IET 360. He was awarded with 3rd prize under the category Paper Presentation.
- ❖ Ashatosh Raj Sinha and Viplav Kumar of ECE 4th year won 3rd prize for the event ‘Transformers’ organized by IET UK during IET 360 conducted on March 11th-12th at Dr. M.G.R. Educational & Research Institute.
- ❖ ABHINAB GHOSH, ECE IV Year published a paper on “River Restoration” under the category of Industries Defined Problem In association with IET 360. HE finished 4th in this competition.
- ❖ Dhanush Dharmaretnam and Nishant Kumar of ECE 4th year Published a Research paper on” Automatic Accident Detection System Applying Brain Wave Analysis And Fatigue Analysis” for IET Paper presentation and they were placed 4th under this category.
- ❖ Dhanush Dharmaretnam won 1st Prize for Debate, 2nd for Book review, 3rd for Mixed bag in the Glittecrazy 2010.
- ❖ Ashish Kumar of ECE 4th year won 1st prize for Mixed Bag, an event organized in association with Glittecrazy 2010.

Department of EEE

- ❖ **J. Antony, S. A. Sampath Kumar**, “WSN Bases Car Parking System Using MSP 430”, Revelation’10, 2nd and 3rd Sep, Pondicherry Engineering College.
- ❖ **J. Antony**, “Hocus Pocus”, Revelation’10, 2nd and 3rd Sep, Pondicherry Engineering College.
- ❖ **Ankur Ghosh, Amrit Anshu Shekhar**, “Energy Auditing” Matrix’10, 24th Sep, Kumarguru College of Technology, Coimbatore.
- ❖ **Ramesh Kumar Sinha, Ritesh Kumar, Ribhu Kumar**, “Impact of Voltage Dip on Generator With Faulty Analysis”, ICOP’S 10, 20th 21st 22nd Dec 2010, Guru Nanak Dev Engineering College , Ludhiana, Punjab, India.
- ❖ **Ramesh Kumar, Ritesh Kumar**, “Analysis of Voltage Sag with Different DG for Various Faculty Conditions”, International Joint Journal Conference on Engineering and Technology, 10th Jan 2011, [IJJCET10].
- ❖ **Sharique Rabani, Ravi Kumar, Ravi Shankar Singh, Rajeev Ranjan**, “Students Locator System Using GPS & Zig bee”, NCICT’11’, 4th and 5th Feb 2011, Bit Mesra (Noida Campus).

Department of CSE

- ❖ **Kumar Saurabh, Sudhanshu, Jinesh Patel**, “Runner’s of TGMC Quiz”, Prize (IBM Digital Clock)

- ❖ **Dinesh Rathore, Pankaj Gupta, Tabish Junaid, Sudhanshu, Prashant Kumar, Amit Agarwal**, “IBM Blue Scholars”.
- ❖ **Satyapal Prins Chourasia**, “Debugging”, First Prize.
- ❖ **Ujjwal Kumar**, “Debugging”, First Prize.
- ❖ **Satyapal Prins Chourasia**, “Aptitude Test”, Rank Holder.
- ❖ **Satyapal Prins Chourasia**, “Certificate in Java Programming Language”, Rank Holder.
- ❖ **Ujjwal Kumar**, “Gaming”, First Prize.
- ❖ **Hari Ram Kumar**, “Quiz”, First Prize.
- ❖ **Dinesh Kumar**, “Quiz”, Second Prize.
- ❖ **DilliBaskar**, “Quiz”, First Prize.

Department of IBT

- ❖ **V.Sruthi**, “Replika 2010 (Ethiraj College)”, Debate –Cash Award.
- ❖ **Dhanapriya**, “Replika 2010 (Ethiraj College)”, Paper presentation 1st Prize.
- ❖ **Sudha**, “Replika 2010 (Ethiraj College)”, Debate - Cash Award
- ❖ **Noopur Kumari**, “Replika 2010 (Ethiraj College)”, Adzap-Cash Award
- ❖ **Abishek Kumar jha**, “Litfest 2010 (Dr. M.G.R. Educational & Research Institute, University)” Quiz-Cash Award

Department of Civil Engineering

- ❖ **Punith, Shanmuganathan, Priyadarshini**, “Dream zone award”, Cash prize / certificate.
- ❖ **Partha pratim debnath**, “IITM Summer Trainee”, 2 month Internship.
- ❖ **Partha pratim debnath**, “Iceberg 2011 sponseed by Indian CONCRETE INSTITUTE”, Merit certificate.
- ❖ **Shahrukh Khan**, “Andaman PWD Trainee”, Internship.
- ❖ **Abrar Ahmed Khan**, “Andaman PWD Trainee”, Internship.
- ❖ **T J Shehnaz**, “Andaman PWD Trainee”, Internship.

Department of EIE

- ❖ **Manish Kumar, Manas Ranjan patel, Amit kumar**, “Anti-Sleep Alarm for Students”, 1st Prize, 1500.
- ❖ **Kunnal Kishore** (Paper presentation), “Global Positioning System”, 1st Prize, 1500.
- ❖ **Rahul** (Paper presentation), “Energy on Wheels”, 3rd Prize, 300.

- ❖ **Vikas Kumar Pujapriety**, “Solar Powered Mobile Phones”, 2nd Prize, 750.
- ❖ **Arun kumar, Deepak kumar manto, Jitesh Kumar**, “Construct Hover Craft & Obstacle Detector”, 2nd Prize, 1000.
- ❖ **Surendar Kumar, Siddharth Shankar, Amith**, “Unique Water Pump Controller”, 1st Prize, 1500.
- ❖ **Shivang Saxena**, “Organic Light Emitting Diode”, 3rd Prize, 500.
- ❖ **Mritun Jay Kumar, Suryaprakash**, “Adaptive Traffic Control with Wireless Sensors”, 2nd Prize, 750.

Department of Mechanical Engineering

- ❖ **Abdul Basi**, “Show Pro”, 5th to 12th, February - 2011, 1st Prize, Women’s Christian College, Chennai.
- ❖ **Hemanta**, “Basket Ball (Sports Meet-2010)”, 13th to 18th, September, 2010, 1st Prize, Dr. M.G.R. Educational & Research Institute, University, Chennai.
- ❖ **Eshan Sett**, “Vox Populi (Debate) (Iet 3600)”, 11 & 12th March, 2011, 2nd Prize, Dr. M.G.R. Educational & Research Institute, University, Chennai.
- ❖ **Abhishek Sinha**, “Model Exhibits (Zion – The Scitech Forum)”, 11, February, 2011, 2nd Prize, Dr. M.G.R. Educational & Research Institute, University, Chennai.
- ❖ **Eshan Sett**, “Raw-Tech (Paper Presentation)”, 11 & 12th March, 2011, 3rd Prize, Dr. M.G.R. Educational & Research Institute, University, Chennai.
- ❖ **Sushant Anand**, “Ipl Auction”, 5th to 12th, February, 2011, 3rd Prize, Women’s Christian College, Chennai.
- ❖ **Eshan Sett**, “Mouth Speak”, 30th January to 2nd February, 2011, 4th Prize, VIT University

Department of MCA

- ❖ Mr. Samim Ansari, “Quiz Competition”, First Prize in Technical Symposium 2010.
- ❖ Mr. Faiz Anwar, “Quiz Competition”, First Prize in Technical Symposium 2010.

33. Activities of the Guidance and Counselling Unit

The college imparts guidance and counselling to students through the academic counseling / career counselling.

Academic Counselling starts at the very first stage with the commencement

of the admission process. During the course of the academic session, regular monitoring of the students' performance is done through internal periodic tests, class performance and assignments. The feedback from the various evaluation processes enables the teachers to counsel the students for improving their performance and guide them appropriately. Remedial and tutorial classes are also conducted for the weaker students. In addition to this, reports of the poor performance are sent to their parents, which help to improve the students' academic performance and overall development.

The teachers also take initiative to solve personal and emotional problems faced by some students on a one to one basis. If required, parents of those students are also advised to monitor their wards, to seek professional help.

Career Counselling primarily aims at conducting seminars and workshops through various professional bodies, institutions and companies. These sessions are highly interactive and students actively participate to clarify their doubts and gain new insights.

These interactions with external institutions help the students in assessing the career opportunities and choosing their career path. The students are also encouraged to go for vocational training in addition to their regular curriculum.

34. Placement services provided to students:

HCL Technologies – 02-Dec-2010

- ❖ Sector : IT
- ❖ Participated Depts. - CSE, ECE, ETC, EEE, IT, MCA and BMI.
- ❖ Recruitment process - AMCAT online exam, Technical interview and HR interview.
- ❖ Position Offered- Software Engineer
- ❖ Salary Offered- 3.25 LPA
- ❖ Remarks - 600 candidates attended the online exam, 109 candidates have been shortlisted. Out of that 85 candidates have got the offer.

L&T –ECC – 08-Dec-2010

- ❖ Sector : Construction
- ❖ Participated Depts. - Civil, Mechanical and EEE.
- ❖ Recruitment process – Written exam, Technical interview and HR interview.
- ❖ Position Offered- Graduate Engineer Trainee
- ❖ Salary Offered- 3.50 LPA
- ❖ Remarks – Top 100 candidates (CGPA) attended the written exam, 24 candidates have been shortlisted. 9 candidates have got the offer.

Syntel Technologies – 22-Jan-2011

- ❖ Sector : IT
- ❖ Participated Depts. –IT, CSE,ECE,ETC,EIE,ICE,BMI, Mechanical , EEE & MCA
- ❖ Recruitment process – Online exam, Technical interview and HR interview.
- ❖ Position Offered- Software Engineer Trainee
- ❖ Salary Offered- 3.25 LPA
- ❖ Remarks – 680 candidates attended the online exam, 55 candidates have been shortlisted. Out of that 11 candidates have got the offer.

Saipem India – 25-Jan-2011

- ❖ Sector : Pipe Lines
- ❖ Participated Depts. – Civil, Mechanical , EEE & Chemical
- ❖ Recruitment process – Written Exam, Technical interview and HR interview.
- ❖ Position Offered- Graduate Engineer Trainee
- ❖ Salary Offered- 3.25LPA
- ❖ Remarks – Top 100(more than 80%) students from above dept attended the interview and 20 candidates short listed for interview and 1 got the offer.

CMC India Pvt Ltd – 05-Mar-2011

- ❖ Sector : IT & Networking
- ❖ Participated Depts. – ECE,ETC,CSE,EEE,EIE & IT
- ❖ Recruitment process – Online Application on CoCubes.com , Short listing on the basis of Answer to Question, Aptitude Test Technical Test Technical Interview HR Interview
- ❖ Position Offered- Trainee IT Engineer
- ❖ Salary Offered- 2.5 LPA
- ❖ Remarks – 422 students are eligible and 276 have applied. 79 students shortlisted for second round and 17 candidates shortlisted

ValueFirst – 09-Mar-2011

- ❖ Sector : Networking Services
- ❖ Participated Depts. – ECE,ETC,CSE,EEE,EIE & IT
- ❖ Recruitment process –Aptitude Test & Personal interview
- ❖ Position Offered- Programmer Trainee / Project Trainee
- ❖ Salary Offered- 1.44 LPA
- ❖ Remarks – 347 students are eligible and 101 have applied. 27 students shortlisted for second round and 8 candidates shortlisted for HR round.

Force10 Networks – 11-Mar-2011

- ❖ Sector : Networking
- ❖ Participated Depts. – IT, CSE & ECE
- ❖ Recruitment process – Written Test, Technical Interview & HR
- ❖ Position Offered- Associate Engineer
- ❖ Salary Offered- 4.25 LPA

- ❖ Remarks – 347 are eligible and 101 have applied. 31 students were shortlisted and 3 students got selected.

PathPartner – 11-Mar-2011

- ❖ Sector : IT
- ❖ Participated Depts. – IT, CSE, EEE, EIE & ECE
- ❖ Recruitment process – Written Test, Technical Interview & HR
- ❖ Position Offered- Software Engineer
- ❖ Salary Offered- 3.5 LPA
- ❖ Remarks – 41 are eligible and 35 have applied. 17 students were shortlisted for final interview and 2 students got selected.

Mphasis – 19-Mar-2011

- ❖ Sector : IT
- ❖ Participated Depts. – CSE, IT, ECE, ETC, EIE, EEE, ICE, BMI, Mechanical, IBT, BT, Civil & MCA
- ❖ Recruitment process – AMCAT online exam, Group Discussion, Technical interview, verbal Assessment And HR Interview,
- ❖ Position Offered- Software Engineer Trainee
- ❖ Salary Offered- 3.25LPA
- ❖ Remarks – 714 students are eligible and 580 students have attended the AMCAT test and 109 students cleared the test.

Hexaware – 30 & 31-Mar-2011

- ❖ Sector : IT
- ❖ Participated Depts. – CSE, IT, ECE, ETC, EIE, EEE, BMI & MCA
- ❖ Recruitment process –Written Exam, Group discussion, Technical interview& HR Interview
- ❖ Position Offered- Software Engineer Trainee
- ❖ Salary Offered- 2.5LPA
- ❖ Remarks – 520 Students are eligible and 370 attended the process and 140 cleared the exam and 35 cleared the Group Discussion.

Technofab – 19-Dec-2010

- ❖ Sector : Production
- ❖ Participated Depts. – Mechanical
- ❖ Recruitment process – Technical interview & HR interview
- ❖ Position Offered- Trainee Engineer
- ❖ Salary Offered- 1.5 LPA
- ❖ Remarks – Interested candidates with less than 60 percentages are allowed. 63 candidates have appeared and 10 candidates got selected.

Bata India Ltd – 16-Dec-2010

- ❖ Sector : Retail
- ❖ Participated Depts. – MBA
- ❖ Recruitment process – GD & HR interview

- ❖ Position Offered- Store Manager - Trainee
- ❖ Salary Offered- 1.3 during training (6 months to 1 year) - 3 LPA
- ❖ Remarks – 30 candidates were attended and 9 candidates got placed.

Geometric Global – 19-Mar-2011

- ❖ Sector : Engineering Solutions
- ❖ Participated Depts. – MECHANICAL
- ❖ Recruitment process – Technical Test, English Language & Essay Writing, GD & Face to Face interview
- ❖ Position Offered- Junior Engineer / Trainee Engineer
- ❖ Salary Offered- 3.0 LPA
- ❖ Remarks – 69 candidates are eligible and 26 candidates applied. 6 candidates are shortlisted.

Jamna Auto Industries – 07-Apr-2011

- ❖ Sector : R&D (Mechanical)
- ❖ Participated Depts. – MECHANICAL
- ❖ Recruitment process – Technical Test , Technical interview and HR interview
- ❖ Position Offered- Design Engineer (R&D Division)
- ❖ Salary Offered- 1.5 LPA
- ❖ Remarks – 82 candidates are eligible and 20 shortlisted from written exam and 6 candidates got shortlisted from technical interview.

ICICI Bank – 08-Apr-2011

- ❖ Sector : Construction (Banking)
- ❖ Participated Depts. – CIVIL
- ❖ Recruitment process – Online Exam, Technical interview and HR interview
- ❖ Position Offered- Technical Officer
- ❖ Salary Offered- 2.5 LPA
- ❖ Remarks – All the candidates are eligible and 20 shortlisted from written exam and 6 candidates got shortlisted from technical interview and 5 candidates got selected.

Shriram Valves – 08-Apr-2011

- ❖ Sector : Training & Development
- ❖ Participated Depts. – MBA
- ❖ Recruitment process – Online Exam, Technical interview and HR interview
- ❖ Position Offered- Technical Officer
- ❖ Salary Offered- 2.5 LPA
- ❖ Remarks – All the candidates are eligible and 20 shortlisted from written exam and 6 candidates got shortlisted from technical interview.

CSS Corp – 18-Feb-2011

- ❖ Sector : ITES
- ❖ Participated Depts. – Interested candidates from all the departments
- ❖ Recruitment process – Group Discussion & HR interview
- ❖ Position Offered- Technical Support
- ❖ Salary Offered- 1.90 LPA
- ❖ Remarks – 150 candidates attended the interview and 17 candidates got the offer.

Future Generali – 15-April-2011

- ❖ Sector : Management Studies
- ❖ Participated Depts. – Interested candidates from Management department
- ❖ Recruitment process – Group Discussion & HR interview
- ❖ Position Offered- Management Trainee
- ❖ Salary Offered- 2.5 LPA
- ❖ Remarks – 45 candidates attended the interview and 17 candidates got the offer.

Tally Solutions

- ❖ Sector : IT
- ❖ Participated Depts. – Interested candidates from all the departments
- ❖ Recruitment process – Online Exam, Technical interview and HR interview
- ❖ Position Offered- Software Engineer
- ❖ Salary Offered- 3.50 LPA
- ❖ Remarks – 4 candidates got the offer.

Jaro Education – 30-April-2011

- ❖ Sector : Management Studies
- ❖ Participated Depts. – Interested candidates from Management department
- ❖ Recruitment process – Group Discussion & Personnel Interview
- ❖ Position Offered- Management Trainee
- ❖ Salary Offered- 3.60 LPA
- ❖ Remarks – 15 candidates attended the interview and 5 candidates got the offer.

ACS – 29-June-2011

- ❖ Sector : IT
- ❖ Participated Depts. – CSE and MCA
- ❖ Recruitment process – Written Test, GD and HR Interview
- ❖ Position Offered- Business Analyst Trainee
- ❖ Salary Offered- 2.2 LPA
- ❖ Remarks – 11 candidates attended the interview

Qmax – 07-July-2011

- ❖ Sector : IT
- ❖ Participated Depts. – ECE, ETC and EIE
- ❖ Recruitment process – Tech Test, Tech Interview, HR round and Management round
- ❖ Position Offered- Hardware Engineer Trainee
- ❖ Salary Offered- 1.75 LPA
- ❖ Remarks – 25 candidates attended the interview

CADD Centre – 09-July-2011

- ❖ Sector : Marketing
- ❖ Participated Depts. – ECE, ETC, EIE & MECH
- ❖ Recruitment process – Group Discussion & Personnel Interview
- ❖ Position Offered- Business Development Executive / Engineer-Product Support
- ❖ Salary Offered- 1.5 LPA
- ❖ Remarks – 23 candidates attended the interview

Openstream – 17-July-2011

- ❖ Sector : IT
- ❖ Participated Depts. – All departments
- ❖ Recruitment process – Aptitude, Tech Interview and HR Interview
- ❖ Position Offered- Software Engineer
- ❖ Salary Offered- 3 LPA
- ❖ Remarks – 22 candidates attended the interview

Odessa Technologies – 22-July-2011

- ❖ Sector : IT
- ❖ Participated Depts. – All departments
- ❖ Recruitment process – Aptitude, GD, Tech Interview and HR Interview
- ❖ Position Offered- Trainee Software Engineer
- ❖ Salary Offered- 2.2 LPA
- ❖ Remarks – 66 candidates attended the interview

BOSCH – 22-July-2011

- ❖ Sector : Manufacturing
- ❖ Participated Depts. – MECH
- ❖ Recruitment process – Written Test and Technical HR Interview
- ❖ Position Offered- Graduate Apprentice
- ❖ Salary Offered- 3 LPA
- ❖ Remarks – 13 candidates attended the interview
- ❖

35. Healthy practices of the institution:

First University in the Region to Introduce the Credit System of Evaluation

- ❖ Syllabi of all courses were drafted in 2003 , revised after the first batch

in

2007 and again subsequently recast and revised in 2010 – constant up-gradation and revision of Syllabi

- ❖ IQAC (Internal Quality Assessment Cell) functioning with meetings held every three months
- ❖ Field Training specifically introduced as per NAAC Committee's suggestions Smart class rooms
- ❖ Irrespective of increase in student admissions, infrastructure, Faculty – Student ratio (1:15 or less) maintained
- ❖ Several Innovative Student projects – acclaimed by the Press!

Quality Initiatives Taken

- ❖ Dedicated Group for Quality Improvement Initiatives
- ❖ Documented Systems & Processes
- ❖ IQAC (as per NAAC), in place
- ❖ Continuous Improvement towards Excellence
- ❖ Adopting Industry Standard Models
- ❖ Industrial Training, *as part of Syllabi*
- ❖ Best Practices Management
- ❖ Benchmarking with chosen Indian and Global Players
- ❖ Collaborations with Foreign Universities for projects / twinning programmes

A number of faculty related initiatives introduced to improve the teaching - learning process

- ❖ Structured Induction & Training
- ❖ Faculty Development Programmes for Improved Teaching Effectiveness
- ❖ Large Number of Guest Lectures organized with Outside Experts from Industry
- ❖ Training Infrastructure for faculty
- ❖ Exposure in Industry and Academic Environment-Local and International
- ❖ Encourage sabbatical for Faculty to Industry to improve their relevance to them
- ❖ Introducing HR Best Practices for Teaching and Non-Teaching Staff
- ❖ Improving Retention of Key Faculty
- ❖ Improving Engagement with Staff to Improve / Sustain Morale
- ❖ Improve Compensation Structure for Faculty
- ❖ Performance and Rewards Management

Teaching Methodology

- ❖ A tutorial based teaching approach
- ❖ Students are given every opportunity to deliver seminars and taken for visits to Industries / other Institutes for better appreciation of the

subject

- ❖ Field Training, as part of curricular, specifically introduced as per NAAC committee's suggestions
- ❖ Discussions involving journal publications encouraged
- ❖ Stress on All-round Development of the Student and Students are exposed to many opportunities, to enhance their soft skills by attending Business English Courses
- ❖ Short Term Workshops / Conferences being Organized
- ❖ Large Number of Augmentation Programmes/Courses Organized

36. Linkages developed with National / International, Academic / Research bodies

Tanu Safety and Health Research Institute, Pvt., Ltd. (SHRI), Chennai

The Dr.M.G.R. Educational & Research Institute, University and Tanu Safety and Health Research Institute, Pvt. Ltd., (SHRI) wishing to enter academic-industry agreement in the area of education and research and have agreed upon the following principles.

1. This MOU is intended for both parties to work on a collaborative basis in the DSIR funded project in the area of "Child Locator" for the SHRI. Specifically, the MU Students, Staff and Researchers will work with the SHRI and share laboratory facilities and also where ever necessary, function as principal investigator or co-investigator with mutual consent. The SHRI is compensated by the MU with minimum initial venture capital for this project.
2. Both parties agree that the commercial outcome of the project is a sole ownership of the SHRI, and the MU Benefits from the academic credentials from the project.

The agreement will be effective from the date of commencement of the project until its completion and shall be reviewed once in six months.

on behalf of

on behalf of

Dr. M.G.R. Educational & Research Institute,
University, Chennai

Tanu Safety & Health Research
Institute, Pvt. Ltd, Chennai

Registrar

Dr. Sri Kumar, President

Date: 06/13/2011

Date: 06/13/2011

International Collaborations with our University

Several well established and standard Universities abroad had Tied –up with us seeking our collaboration. This would not have been possible unless we have been recognized by them as a University of standing.

- ❖ Several Universities abroad had approached us for Tie –ups for
- ❖ Twinning Programmes
- ❖ Students/Faculty Exchange
- ❖ Joint Projects
- ❖ Many delegations had visited us and have signed MoUs, but due to the present problem, we had slowed down on these MoUs.

ENGINEERING AND TECHNOLOGY

- ❖ University of South Australia , Adelaide, Australia]



MOU WITH UNIVERSITY OF SOUTH AUSTRALIA - JUNE 28, 2006



STUDENTS GOING TO UNIVERSITY of South Australia

❖ University of East London, UK



MOU WITH THE UNIVERSITY OF EAST LONDON

❖ University of Birmingham, UK



MOU WITH UNIVERSITY OF BIRMINGHAM, JUNE 28, 2006

❖ University of Sunderland, UK



MOU WITH UNIVERSITY OF SUNDERLAND, U.K.

❖ Farleigh Dickenson University, USA



Dr. Clarke of Farleigh Dickenson University with our Secretary & President on the Occasion of signing an MOU

- ❖ University of Sussex, UK
- ❖ University of Aberdeen, UK
- ❖ University of Sheffield, UK
- ❖ University of Hull, UK
- ❖ University of Brunel, UK
- ❖ University of Dundee, UK



**MOUs with BRUNEL UNIVERSITY
WEST LONDON UNIVERSITY OF DUNDEE
THE ROBERT GORDON UNIVERSITY, ABERDEEN
UNIVERSITY OF BIRMINGHAM**



MOU WITH UNIVERSITY OF DUNDEE, U.K.



MOU WITH UNIVERSITY OF WALES, U.K.



MOU WITH UNIVERSITY OF SUSSEX, U.K.

DENTAL SURGERY

- ❖ Faculty of Dentistry, University of Hong Kong
- ❖ Srilanka Medical Council
- ❖ University of Selangor, Malaysia

Email : simc@lankabellnet.com
Tel : 2691848 Fax : 2674787

SRI LANKA MEDICAL COUNCIL

31, NORRIS CANAL ROAD, COLOMBO - 10.

In reply please quote 'MC'

President

Dr. H.H.R. Samarasinghe
M.B.B.S. (CEY), MD (CEY),
FRACP, FRCP (LOND).

Vice-President

Dr. Ananda Samarasekera
MD, MBBS DLM,
DMJ (LOND),
Dip. FM. (GLASGOW),

Registrar

Prof. P.S.S. Panditharatne
MBBS (CEY), PhD. (MANCH),
FCS (Sri Lanka)

Asst. Registrar

Dr. N.J. Nonis
MBBS (CEY),
MRCP (UK)

29.11.2004.

Dr N.S.Ravindran,
Dean,
Thai Moogambigai Dental College & Hopital,
Golden George Nagar,
Mueatpir,
Chennai 600107,
India.

Dear Sir,-

RECAGNITION OF THAI MOOGAMBIGAI DENTAL COLLEGE & HOSPITAL.

The Sri Lanka Medical Council at its 437th meeting decided to recognize the Thai Moogambigai Dental College & Hospital. Mueatpir, Chennai.

With all good wishes.

Yours Faithfully,

Panditharatne

Prof.P.S.S.Panditharatne,
Registrar.

ANNEXURE – I

Centre for Entrepreneurship Development

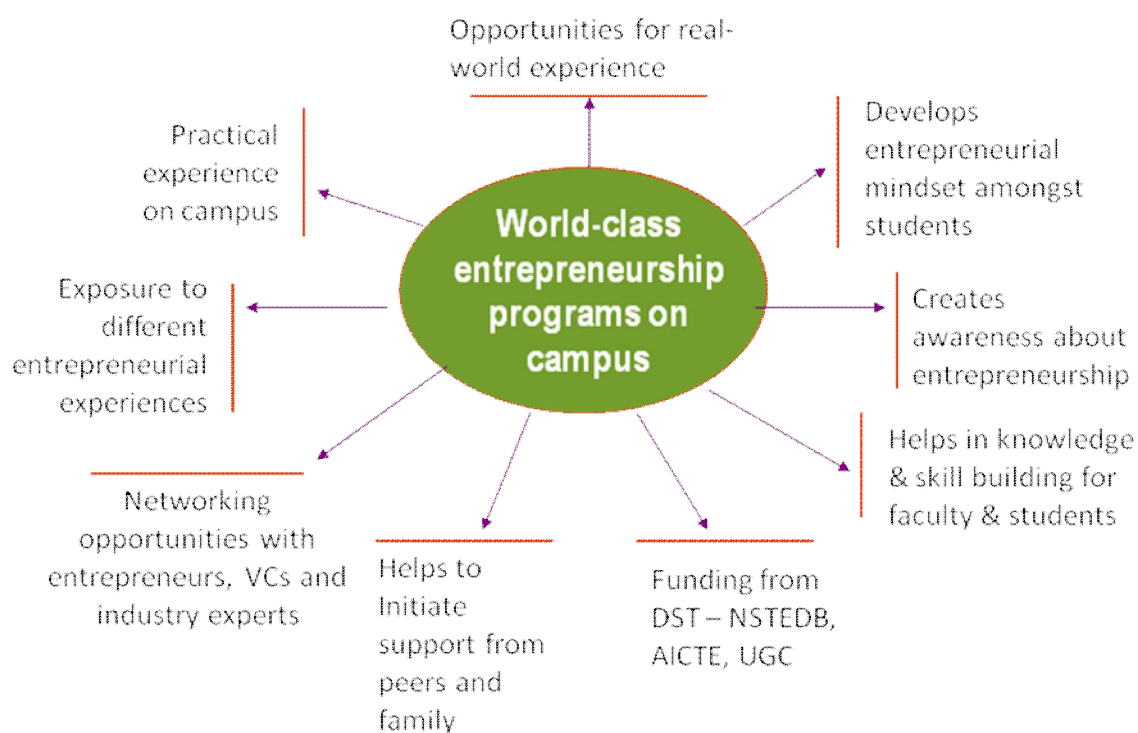
Objectives

Develop in students

- ❖ Logical and Creative thinking skills for an Industrial Environment
- ❖ Effective Communication
- ❖ Working in a Team
- ❖ Networking

In short, Identify and Develop Critical Success Factors for life....

Benefits of Entrepreneurship Program Development



Centre for Entrepreneurship Development

MISSION STATEMENT - To promote economic development by supporting entrepreneurs, advancing entrepreneurial activities and nurturing early-stage businesses with space, facilities and support services.”

OBJECTIVES OF EDC :

1. To create an environment for self-employment and entrepreneurship development through formal and non-formal programmes.
2. To introduce the concept of entrepreneurship in curricula at the undergraduate degree levels and as certificate courses.
3. To increase the creativity and innovation in young graduates towards finding new commercially viable solutions to commonly found problems in the technical sectors
4. To instill entrepreneurial skills in business plan formulation, making a prototype and taking the prototype to the market, negotiating, financial planning, marketing
5. To provide mentoring for students willing to take the entrepreneurial plunge
6. To identify and provide solution for the problems of small business management & entrepreneurs
7. To set up Incubator facilities for entrepreneurs by providing space, facilities and support services.
8. To have student – run entrepreneurial projects for sustaining the EDC.

Members of the Entrepreneurship Cell Executive Committee, Dr. MGR University

- | | | |
|----|-----------------------------------|---|
| 1 | Head of the Parent Institution | Vice Chancellor |
| 2 | Senior Faculty of the Institution | Any 2 HoD nominated by the Vice Chancellor |
| 3 | Representative of NEN | Ms. VishnuPriya |
| 4 | An Entrepreneur | Mr. Raj Shankar,
Ichiban Business Consultants Pvt. Ltd. |
| 5 | Chief Coordinator of the Cell | Dr. Rama Vaidyanathan (HoD – Biotechnology) |
| 6. | Dept. Coordinators | Teresa Sangeetha, ECE
ArunKumar, IBT
Krishnaraju, IBT
Sridevi, MBA |
| 7. | Student Coordinators | Core Team
Mr. Shiv Kumar Dangi and Ms. Aparajita Jha |

ACTIVITIES OF THE Cell

The university has enrolled with National Entrepreneurship Network, which facilitates various aspects of Entrepreneurship Development in the Campus.

Training of Faculty – Four faculty have been trained by the Entrepreneurship Foundation Course and Educators Course. This has lead to a good network with the Faculty from other University E-Cells.

Training of Students – The E-Leaders in the campus have been instrumental in generating a lot of enthusiasm and awareness about Entrepreneurship in the campus. Students become members of the E-Cell and progress through various modules of the Course.

Module 0 : Enrolment into E – Cell, and awareness programs organized
(minimum of 2 speakers for 1 Semester)

Module 1: Innovative thinking and problem solving skills; case study on entrepreneurs.

Module 2 : Opportunity identification, Idea generation, Evaluation of ideas based on economics and marketing, 3 minute pitch

Module 3 - Development, manufacturing, and marketing costs; researching your competition, Risk analysis and resource requirements, Prototyping., Business formats: sole proprietorship; partnership, corporation, franchise, Licensing and selling an invention to a big corporation, Trademarks; business name, logo, creative product name.

Module 4 : Profit potential; marketing plan, Startup funding: internal financing; external financing. Looking beyond startup. How to write a business plan.

Module 5: Execution of an Entrepreneurship Project

Entrepreneurship Cell Report 2009-10

Inauguration of Entrepreneurship Cell

on 10th Aug 2009 by Mr. Sunil Cherian, CEO BurgerMan (Entrepreneur)

NEN - Intercity Meet, Sep 5th 2009

The NEN – Intercity Meet was hosted by Dr. M.G.R. University. More than 100 E-Cell Members from 15 different Colleges in Chennai participated in the program. In this program Dr. Sumathy gave a talk on Communication skills for entrepreneurs. Two entrepreneurs from SRM University gave a talk on their company products.

E-Week 2010

The E- Week was celebrated by enthusiastic E-Cell Members with the following events:

Video screening of "**Ideas for India's Future**", a talk by Nandan Nilekeni followed by Discussion

" **Be a 3 day Entrepreneur** " Invest Rs.1000 and try your hand at entrepreneurship. Reports were submitted in 2 days time. The students were asked to submit a report answering the following questions:

1. What is the Product ?
2. Which is the market segment being targeted ?
3. How were the Operations structured ?
4. How can you protect your business from competition ?
5. How did you communicate to your customer ?

Totally 36 teams participated in the contest. They generated a total turnover of over Rs.50,000 in these two days. Five shortlisted teams were asked to present their Business and the best Business Team White Swan Pvt. Ltd. Which offered a series of services for students was chosen as the winner.

Speakers during E-Week

Raj Shankar - CEO, Ichiban Consulting

Harihara Subramanian - MD- Mayura Automation Pvt. Ltd.

ENTREPRENEURSHIP CELL REPORT 2010-11

ARIZONE-TEAM MEETING- Nov 19th 2010

The Entrepreneurship Cell of Dr.M.G.R.University christened as ARIZONE was renewed with a kickstart team meeting organised in seminar hall on **19th November 2010**

8 Staff members and 12 students from different departments of the college were present under the leadership of **Dr.RamaVidyanathan(HOD-IBT)** to plan for the Ecell activities of the forthcoming semester starting December.

The objective for the MGRU E Cell was proposed by **Mrs.S.V. Tresa Sangeetha(EEE)** and agreed upon by all Faculty. The theme for the Arizone Team “ A Zone for Entrepreneurial Thinkers “was agreed upon by all Faculty.

Arizone “A Zone for Entrepreneurial Thinkers “

The Objective of the Entrepreneurship Cell is to develop the entrepreneurial thinking in students. Participation in the E Cell will develop skills in Leadership, Team Building, Communication, Presentation, Lateral Thinking, Problem Solving Ability, Risk taking Ability, Organizing, Planning and Networking.

- IN A NUT SHELL MAKING A STUDENT ENTREPRENEURIAL

The other staff who enthusiastically contributed with valuable ideas and suggestions for better reach of Ecell were **Dr.Srividya(MBA),Mr.Arun(IBT),Mr.Krishnaraju (IBT), Mr.Gopalakrishnan(ECE).**

It was decided to have a **Membership campaign** from **Dec 2nd** by screening the NEN and explaining the students on the benefits of associating with NEN and Ecell. It was decided to have a membership fee of Rs.100.

The responsibilities were divided among the Student team which included **Shivkumar Dangi(EEE), Piyush(EEE), Nambi(EEE), Saravana prabhu(MBA), Vijayalakshmi (MBA).**

MEMBERSHIP DRIVE-MBA-Nov 20th 2010

Membership campaign was done by the MBA students on Nov 20th for the MBA Department lead by Dr.Srividya and student coordinators Saravana prabhu and mahalakshmi. There was good response from the MBA students and nearly 40 students registered in Arizone generating an amount of Rs.4000.

Faculty Meet on Teaching skills-Dec 1st 2010

A Faculty get together was organised on **Dec 1st 2010** to create passion in teaching. A welcome address was given by the Ecell coordinator **Dr.RamaVidyanathan.** The event started with a talk by **Dean E & T Dr.Uma Rajaram** who narrated HARE and TORTOISE story to illustrate the importance of team work and **collaborative work** in an organisation. This was followed by a speech on “**Good,Better,Best**” by **Prof. Ramalingam (HOD-MBA)** in which he emphasised the urge to be a best teacher and hone the qualities for it. A fun filled **team game** was conducted by **Prof.Gopalakrishnan** in which faculty were made to play in groups and finally

pointed out the mistakes we make when we work as a team. An open discussion was thrown by **Ms.Tresa Sangeetha** on teaching and teaching methodologies after screening an interview with Aamirkhan on education system and a live classroom session.

Arizon team meeting-Dec 2nd 2010

Apart from the core team members **Ms.Vishnupriya(NEN Consultant)** was present in the meeting to guide on the future actions. It was decided that the Entrepreneurship Cell of Dr. MGR University, called Arizon will function as a profit making company with each member as an investor and share- holder. Each member can pay Rs. 100/- to become a share holder. With this money as investment the company and the members will operate activities to earn profits. The profits will be declared and dividend paid to the members at the end the semester. The profit making activities suggested by the members were Academic Calender tailored for Dr. MGR University Students, Magazine, Stationary Store .

It was decided that the core group of members will be divided into groups who will work out their business proposal and present to the Arizone Team. It was suggested that the students undergo a workshop on analyzing a bus plan. This could be offered by Faculty from MGR who have been trained .

A Wall magazine in the entrance of Anna Block with pictures of MGR E- Leaders. This should be started on 6th Dec 2010. The coordinator will be Sowmyadeep. All the E leaders to give one photo with a catchy write up to S, S to give dead line. On **Monday, 6th Dec** from 4:15 to 5:15 PM NEN videos will be screened for interested students. Students can fill up the membership form from NEN and the online form made by Shivkumar Dangi. **On Dec 10th**, there will be a curtain raiser. The agenda for the prog to be given by Ms. Sangeetha. Among other events, there will be a team game organized by Gopalakrishnan, ECE. **On Dec 17th 2010** – there will be a workshop for students. Since the MBA students have a different academic schedule, they will have a separate workshop prog which will be planned by Dr.Srividya.

Curtain raiser-Dec 10th 2010

Arizone organised a curtain raiser on **Dec 10th 2010** to students of all departments in conference hall. Welcome address was given by **Dr.Ramavidyanathan**. NEN Videos were screened. **Ms.Vishnupriya** who was invited as guest , addressed the gathering about Entrepreneurship and the role of NEN in grooming a students personality. Mr.X. of –Anna University gave a presentation on First Dot- a mega event which showcases startups to be organised by the Ecells of Chennai colleges. Mr.X expressed his gratitude to NEN for moulding him and giving a forum to network.

Registration was open and nearly 100 students registered in Ecell.

FACULTY TRAINING

Dr.Rama Vaidyanathan of IBT and Ms.Tresa Sangeetha of EEE Department attended **‘Kick-Starting Course Module II - Way Forward: Entrepreneurship Program Acceleration’** which a program sequel to a module “Campus Entrepreneurship” attended earlier. This is a prerequisite for certification as NEN Entrepreneurship Educator. It was held on **December 14, 2010** at **Women’s Christian College**.

Dr. Rama Vaidyanathan attended an NEN Advanced Course on “Raising Capital for your Entrepreneurial Venture” from **19 to 21 January, 2011** at **WE School (Welingkar’s), Bangalore.**

Kickstart Arizone-Dec 17th 2010

ARIZONE inaugurated the Ecell activities for the semester on **Dec 17th 2010** at 1 p.m in which **Dr.Padmanabhan(Vice Chancellor)** gave an inaugural address followed by an interactive session with the chief guest of the day **Mr.Selvam Raja**. Mr.Selvam Raja who is a young entrepreneur in the field of patent rights shared his experience and the lessons learnt in his journey as an entrepreneur. The session was concluded with a game **“our picture and our story”** in which students learnt the art of working creatively together and an Entrepreneurship game named **“Bad idea to good idea”** which triggered the marketing skills of the students.

17 th Dec 2010	
Time	Session
1:15 - 1:30	Registration
1:30 - 1:45	Welcome, Introduction and Objectives of the Module
1:45 - 2:05	Inaugural Talk by Vice Chancellor
2:05 - 2:30	Introduction of Speaker
2:30 - 3:30	Mr. Selvam Raja
3:30 - 4:00	Bad Idea to Good Idea – Part A & Part B; Wrap Up
4:00 - 4:15	Where do ideas come from ? Steven Johnson video http://www.youtube.com/watch?v=NugRZGDbPFU&feature=related

Workshop on Idea Generation and Opportunity Evaluation –Dec17th to Dec 21

A 3 day workshop on **“Idea Generation and opportunity Evaluation”** was organised from **Dec18th to Dec 21st**. The specific objective of the workshop is to influence students’ attitudes and instill basic knowledge and skills required for ideation during new venture creation.



Dec 18th 2010

The First day of the workshop was done by **Dr.Rama Vaidyanathan.**

18th Dec 2010	
Time	Session
1:15 - 1:30	Summary of yesterday's Session
1:30 - 1:45	Difference between idea and opportunity
1:45 - 2:45	Idea Generation and opportunity evaluation – Close to the heart
2:45 – 3:00	Part 1 – Close to the heart
	Distribute Good Knight case and Seven Domains framework

Workshop-Day2 Dec 20th 2010

Day 2 of the workshop was organised by **Dr.Rama Vaidyanathan** and **Ms.Vishnu Priya (NEN Faculty)**

20th Dec 2010	
Time	Session
1:15 - 1:30	Summary of previous day's Session
1:30 - 2:45	Practical Encounter with Seven Domains –Good Knight case
2:45 – 3:15	Part II – Close to the heart

Day3 of the workshop was handled by **Ms.S.V.Tresa Sangeetha** and **Mr.Shashank (NEN Faculty)**

21st Dec 2010	
Time	Session
1:15 - 1:30	Summary of previous day's Session
1:30 - 2:00	Mathemagic Exercise
2:00 – 3:00	Linking numbers to business opportunity – Back of the Envelope Calculations
3:00 – 3:30	Wrap up

Report on e-week 2011

The Entrepreneurship Week 2011 from Feb 5th to Feb 12th with the theme Ideas for India was organized with many exciting events.

Entrepreneurship Week India is a public awareness campaign originally launched by National Entrepreneurship Network (NEN) in 2007 to celebrate the opportunities of today's India; and to engage more people in building a great ecosystem for entrepreneurs in India. NEN has a network of member Colleges and Universities where students belonging to the Entrepreneurship Cell celebrate this week with creatively designed awareness programs.

Inauguration

The Entrepreneurship Cell of Dr.MGR Educational and Research Institute, named Arizone kickstarted the E Week Celebrations on 4th Feb 2011 with the inauguration by Mr. Naresh Gupta, former Chief Electoral Officer of Tamil Nadu. Addressing the students, he said, entrepreneurship is critical to the human resource development of the country especially in the wake of the problems of unemployment. Entrepreneurial thinking is essential for every individual even if he or she is in employment. He then proceeded to give a presentation on democracy and the role of youth in the development of the country. He took students through the process of the Freedom Struggle and framing of the constitution in a presentation interspersed with relevant song sequences from movies. The youth in general tend to be cynical and may not be taking an active interest in the electoral process. He urged the students to register themselves in the electoral rolls and cast their votes. He also had an interactive session with the students.

Rural Technology Business Incubator

Ms. Thenmozhi Shanmugam from the RTBI, at the IIT Madras gave a talk on the procedures in Incubation of Ventures. She spoke in detail about the opportunity available for students who have an idea for the rural market. She also judged the technobazar ideas and discussed with the students.

Valedictory Function

The Entrepreneurship Week which saw a record participation from students of Dr. MGR. Engineering College, Rajarajeshwari Engineering College, Arani Engineering College was a huge success. The valedictory function had a speech by Mr. T.S.Dhanapalan, Chairman, TANSTIA-FNF Service Centre. Mr. Dhanapalan addressed the students on the various facilities being offered by the TFC for budding entrepreneurs.

Prizes

The Prizes for each event were distributed by the Chairman, TFSC, Mr. Bhaktavatsalam, Chief Administrative Officer and Prof. Ramalingam, Head- Business Administration.

The maximum participation award was given to the Dept. of EEE, Dr. MGR Engineering College and to Rajarajeshwari Engineering College. The event ended on a happy note with a promise that the next year would see the showcasing of entrepreneurial Ventures from the University.



Chief Guest Mr. Naresh Gupta receiving a memento for Mr. ACS. Arun Kumar, President Dr. MGR University on 4th Feb 2011.



Mr. Naresh Gupta receiving the E-Cell memento from Dr. Uma Rajaram, Dean Engg. & Tech.



Vice Chancellor In-Charge – Dr. S.Aravindan



Ms. Thenmozhi from RTBI



Mr. T.S.Dhanapalan, Chairman TFC



Dr. Ramalingam (HOD-MBA Dept)



Eweek Trophy for- RREC



Eweek Trophy for- for EEE Dept



The EWEEK Organizers!!

Debate – Entrepreneurship OR Employment

The Week started with a hot debate on “ Which is the better option for fresh Engineering Graduates – Entrepreneurship Or Employment ? ” The two teams with 8 members each fought a tough war each bringing out live examples and striking arguments.

The judges for the event were Dr. Mary from the Dept. of English Studies, Faculty of Humanities Sciences and Dr. Srividya from Dept. of Management Studies. Finally the Arbitrator – Prof Ramalingam, Head- Business Administration ruled that Employment was the best option immediately but after a few years of experience Do Venture into your Entrepreneurship Dream !



Participants engrossed in the Debate while Dr. Mary looks on .

BUSINESS IDEAS FOR INDIA

This Event required the students with a Dream in their eyes “I have an Idea ! Can this be a Be a Business Opportunity? “ There were 11 entries for Business Ideas which ranged from a Food Bank of India which promised to distribute food grains ensuring benefit to the farmers and the consumers; biodegradable plastic manufacturing unit, and a mehendi machine which would have a Pan – India market. There were ideas for a paper soap vending machine, plant based dress designing unit to name a few other ideas. The creativity shown by the students was mind-boggling. In the first round, every student was given an opportunity to present their idea to the audience.

These students were attended a workshop on “Opportunity Evaluation” conducted by Mr. Shashank Rajurkar, NEN Faculty. Shashank took the students through the Seven Domain Framework of John Mullins leading them to decide on their own, if their idea was worthwhile. They analyzed the market, the industry and the core team to evaluate their own ideas.

The Communication Workshop by Dr. Albert’ Rayan was a huge success, if one could guess by the registrations for the event. Dr. Albert conducted an interactive session with role play by the students to drive home the importance of good communication skills. The choice of words, body language and clarity of thought were of utmost importance in convincing the audience to see the merits of their idea.

In the second round of power-point presentation, the students showed a marked improvement and it was very tough to decide on the winners. The First Prize was given to “ Mehendi Machine” This winning idea was chosen for the sheer market size the idea possessed. The second prize was won by The Food Bank of India was chosen since this idea had identified a definite pain point for the Farmers and therefore there was a huge potential in solving this problem. Keeping in mind the adage “ Any big Problem is an Opportunity” this sure is a winner!



List of Participants for Business Ideas for India

S.No.	Name	Dept.	Topic	WINNER
1.	Jai singh Hanjra	MECH	Clothes from Waste	
	Fakhrul Islam			
	Jahangir Alom			
2.	Sumit Ranjan	ETC	Online selling	
	Kaustave Dhar			
	Nipjyoti Patgiri			
3.	Ganesh R.K.	IT	Sale of used computers to rural people	
	Mukesh Kumar			
	Aarju Kumar			
4.	Archita Mitra	CSE	Maintenance of Two wheelers and Cars	
	N. Ravi Rai			
5.	Sandeep Saklani	CIVIL	Paper soap wending machine in Indian trains	
	Piyush			
	Praveen Sethya			
6.	V. Karthiga	CSE(2)	Natural Mehendi	FIRST PRIZE
	T. Bhagya Sra			
	MP Uma Maheshwari			
7.	A. Gayathri	CSE(2)	Programming lessons	
	J. Gowtham Raj			
	A. Divya Priya			
8.	Shashi Kr Suman	EEE	Food Bank of India	
	Vivek Kumar			
	Sadashiv Kumar			
9.	Rohit kumar	MECH(2)	Biodegradable plastics	SECOND PRIZE
	Manoj Mahto			
	Swapnil T. kapse			
10. A	Saurav Kumar	MECH(2)		
	Sanjeev Kumar			
	Sumit Kumar Ranjan			
11.	Shadab Hassan	ECE	Save energy	
	Sachin Saurabh	Mech		
	Ravi kant	Mech		



TECHNOCRATS & ENGINEERS!!!

TECHNO BAZAAR



Date : Feb 9 – 10, 2011
Venue : RA111, Ramanujam block.



REPORT

This was the place to be for those who were in search for a platform to showcase and exhibit their technical innovations. It required the innovativeness in marketing strategy to attract the audience. It was something which added a whole new dimension to the event. An eye-catcher indeed!



Nearly 12 batches enrolled for the event in a short notice of 2 days from departments of EEE, ECE, E &I, Mechanical and Civil.

Stall No.	Showcase	Participants
1.	Production of electricity using smoke	Mrinal(Civil/ 1 st yr)
2.	Modification of 2 stroke to air engine	Prakit kumar (Mech/4 th yr) Om Chandra (Mech/4 th yr)
3.	Off shore wind energy conversion system	Shweta kaushik (EEE/4 th yr) Snehal (EEE/4 th yr)
4.	Student tracking	Ravi kumar(EEE/4 th yr) Ravi Shankar singh (EEE/4 th yr)
5.	Contact less power transfer system	Harsat shani (EEE/4 th yr) Gaurav priyadarshan (EEE/4 th yr) Sonali suman kerketta (EEE/4 th yr) Saline roy (EEE/4 th yr)

6.	Bio-amplifier ECG	Anand abhishek (ICE/2 nd yr)
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7.	Effective method for power distribution	J.Antony (ECE/4 th yr) S.A.Sampath kumar (ECE/4 th yr) Amit Paul (ECE/4 th yr) Satish kannan (ECE/4 th yr)
8.	Impact of voltage sag	Ramesh kumar sinha (EEE/4 th yr) Ribhu kumar (EEE/4 th yr) Ritesh kumar (EEE/4 th yr)
9.	Autonomous robot	Tikeswar maj (E&I/3 rd yr) Kalimmudin ansosi (E&I/3 rd yr) Debas his dhal (E&I/3 rd yr)
10.	Spy bird quadrator	Amit kumar (EEE/4 th yr) Debadatta sahu (EEE/4 th yr) Deepesh Sharma (EEE/4 th yr) Shisti sekhar (EEE/4 th yr)
11.	Novi dator 360	Ashish kumar (ECE/3 rd yr) Rajan kumar bhaskar (ECE/3 rd yr) Pratik kumar (ECE/3 rd yr) Abhishek singh (ECE/3 rd yr)
12.	E-CRONISTA	Krishnan (ECE/4 th yr) Manish manglam (ECE/4 th yr) Manas ranjan sahu (ECE/4 th yr)

STUDENT EXHIBITS



All the exhibit were found equally good and we had our **Vice Chancellor Dr.P.Aravindan** visiting the stalls and listening to the students with enthusiasm. **Our Chief Administrative Officer and HOD of CSE and EEE department** visited the stalls and evaluated them on the technical feasibility and **NEN consultant Ms.VishnuPriya, Mr.Sashank and Ms.Thenmozhi** of Rural tech incubator gauged its marketability and applicability for the public.io-Amplifier ECG and Autonomous Robot bagged the first prize.



Vice Chancellor (i/c) Dr.P.Aravindan



CAO Mr.Bakthavatchalam

Judges & organizers



Mr.Sashank Rajurkar



Ms.Thenmozhi



Ms.Vishnu priya

“Eweek Coverage” Presentation





RS.50 EXERCISE.....



OPPORTUNITY EVALUATION.. by Mr.Sashank Rajurkar

