Student Projects at NMREC
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**Nalla Malla Reddy Engineering College**

Courses Offered:

**B.Tech:**
- Civil Engineering
- Computer Science & Engineering
- Information Technology
- Electronics & Communication Engineering
- Electrical & Electronics Engineering
- Mechanical Engineering

**M.Tech:**
- ECE - VLSI System Design
- CSE - Computer Networks & Information Security
- Mech - CAD / CAM
- EEE - Electrical Power Engineering

**MBA**
In order to maximize the utility of solar power, a solar tracking system is needed which tracks sun and maximizes solar radiation input to the solar panel. A prototype model of dual axis solar tracking was made with LDRs and independent drive motors repositioning the solar panel perpendicular to solar radiation. The project was done by Divya sree and Setty Rakesh under the guidance of Prof. K. Raghuram/HOD-EEE.

"Fault detection and fault information on distribution system using GSM technology"

In India, the main drawbacks of the distribution system are poor maintenance of the installed facilities, lack of planned network, and lack of monitoring and prevent losses and manual updating of consumer records etc. This causes complexity in locating and correcting the faults on distribution transformer and its subsequent feeders. This project presented design and implementation of a mobile embedded system to monitor and diagnose condition of transformers, by record key operation indicators of a distribution transformer like load currents, transformer oil, ambient temperatures and voltages. The proposed on-line monitoring system integrates a Global Service Mobile (GSM) Modem, with a solid state device named AVR (Advanced Virtual RISC) and sensor packages. Data of operation condition of transformer is received in the form of SMS (Short Message Service). Using this online monitoring system will help utility operators to keep transformers in service for longer of time. A demo model was prepared and faults were simulated and the performance was demonstrated.

This project was done by P.Ashok, P.Ganesh Kumar & R.Sai Krishna under the guidance of Mr.P.Sreekanth, Assistant Professor in the department.
"Smart parking system using the 8052 microcontroller"

The aim of the automatic parking is to design and address the problem of parking and reduce its impact by implementing multi-tier parking lots that will prevent parked vehicles from restricting space for driving. The demand for parking space is ever increasing but the amount of parking space is limited leading to congestion and unwanted traffic blockades. In the event of having found a place to park, retrieving it is a problem. The project provides an intelligent automatic car parking system.

It is an efficient and user-friendly system for parking four-wheelers.

"Foot Power Generation using E-Waste"

Lots of electronic components are thrown as wastage when some of unserviceable computer peripherals, scanners, printers etc. are thrown as wastage. A working model is developed for producing Electrical power assembling some of the waste components. This unit is fitted below the pathway of small corridors where pedestrians walk. The energy of footsteps activates a spring placed under platform and produce electricity through some of E-Waste motors. During the daytime the power is stored in the battery and utilized in the right time for corridor lighting.

These projects were done by K.Vindhya, K.Rochis Babu, G.Sriharshini & Ch.Pramod. The projects were guided by Prof.K.Raghu Ram.

"A Hybrid wind solar Energy system; Rectifier stage topology"

The project is based on utilization of Non Conventional Energy resources of Wind and Solar in remote areas to produce Electrical Power. These two sources are connected to backup power.

This project presents a new system configuration of the front-end rectifier stage for a hybrid wind/photovoltaic energy system. This configuration allows the two sources to supply the load separately or simultaneously depending on the availability of the energy sources i.e. wind and solar.

The project was done by D. A. Amrutha, P.Sisiraja & V.Bhavani under the guidance of Prof K.Raghu Ram.

"Design of 100VA Solar inverter with mains backup"

A prototype of solar powered inverter with mains backup was developed. This module can work purely on solar or on mains source. The battery backup is used for solar and mains. The selection of solar option is done in day time which facilitates direct use of solar energy if needed or can be backed up in battery. This prototype was developed keeping in view of developing small solar modules of 500VA and 1000VA useful for domestic applications in future. The project was done by M. Lalitya, P. Shravya and Shaik Zainab Begum under the guidance of Prof.K.Raghu Ram.

- Prof. K. Raghu Ram, Head, EEE Dept.
team name, timer, score. It can be used in government offices where tokens are issued to show the current token number and name. This project was done by Aditya Agarwal, D. Abhiram and K. Krishna Kumar

“Radio Frequency Identification Based Library Management System”

The RFID based system on CMS reduces the librarian’s effort to handle the database’s issue and return of books. It is an efficient system which is tracked along with fine collection that helps the librarian in handling the details perfectly. M. Manasa, Md. Tanveer and P. Kalpana have done this project.

- Prof. Ramchandra, Head, ECE Dept.

Department of Mechanical Engineering

Final year B.Tech projects in the Department of Mechanical Engineering have been aimed at gaining practical experience by applying the technical knowledge gained and also able to understand the underlying scientific principles. Therefore, the projects selected encompassed the fields such as (i) alternative sources of energy keeping in view the latest trends in identifying alternative sources of energy that is inexhaustible in view of depleting reserves of conventional energy sources such as fossil fuels as well as reduce the pollution in environment due to the use fossil fuels (ii) metal forming (iii) minimization of wastage of lubricants (iv) reduction in the volume of recyclable materials for ease and economic transportation (v) methods to reduce pollution by reducing harmful exhaust gases in automobiles (vi) machining and machinability of materials (vii) advanced welding and metal processing techniques (viii) convective heat transfer and (ix) fluid flow visualization. The execution of these projects involved design, fabrication, thermal engineering, and material science principles.

The projects connected with alternative source energy consisted of use of solar energy for power generation by vaporizing a liquid with the heat from the sun and using the kinetic energy of the vapour to run a turbine and utilization photo voltaic cells to make use of solar radiation to run a refrigerator and use of solar energy by photo voltaic effect to fly a model airplane. The execution of these projects enabled to gain an insight into the ways of conversion of perennial source of energy. An attempt has also been made to replace diesel partially with bio diesel with an aim to reduce the consumption of depleting sources of conventional energy.

To reduce the harmful effects of exhaust gases the energy of the exhaust gases was utilized to run a turbocharger that enabled to suck the atmospheric gases to mix and chemically react with the exhaust gases resulting in the reduction of harmful gases before they are let out.

In the area of design and metal forming the projects include material handling system to reduce use of manpower as well as improve productivity, can crushing system to reduce the volume of material that is to be recycled to reduce transportation cost as well space for waste material storing, design and fabrication of die for blanking and forming and design of multipurpose fixture for machining.

In the area of machining and machinability the projects are aimed at predicting tool life in machining operation, reduction of lube oil in machining operation as well as a project on the understanding the relation between material processing and machinability that enabled to educate the student that same material processed differently exhibits different properties such as machinability and notch sensitivity. It has been proposed that notch sensitivity and machinability have close relation. An attempt has also been made to understand the effect of rapid proto typing on the quality of the components obtained through this route.

Project on convective heat transfer studied the effect of shape and inclination of the body that is heated on the temperature distribution in the medium around it. Effect of viscosity on fluid flow has also been attempted in one of the projects.

Projects on advanced welding include friction stir welding of two aluminium alloys and friction stir processing of an aluminium alloy for microstructure
modification to improve surface hardness. These non-conventional welding and processing are in the direction to reduce atmospheric pollution that usually occurs in conventional welding processes. In addition, these processes are free from solidification defects as welding and processing are carried out in solid state only.

"Turbine Driven Power Generation Using Solar "Energy"
The demand for electricity is ever increasing in the present scenario where many new industries are being setup and lots of new electronic and electrical equipments are being released into the market. The conventional energy sources are not able to cope up with the increase in demand. Solar energy has the potential of meeting this raise in demand but at present it is not utilized to its full potential in India. In this project, mechanical output is generated using solar energy and an organic liquid with low boiling point (Di-ethyl ether–35°C). The mechanical output thus generated is converted to electrical energy using an alternator. The project team consisted of Annamraju UdayKiran, Piyush R Mandhane, Kokala Balakrishna & Bathula Varun Reddy

"SOLAR POWERED REFRIGERATOR"
Refrigerated storage which is believed to be best method for storing the fruits and vegetables in fresh form is not available in rural or remote area where grid electricity is not mostly available. Hence, without having a conventional energy source at these areas, the present project was taken up to design and fabricate a solar PV powered vapor compression refrigeration using heat exchanger. A 60liters of cold storage structure was constructed and insulated with proper materials. The project was done by M. Veera Mallikarjun Reddy, A. SaiGowtham Reddy, V. Pradeep & V. Shravan.

Dr. T. Mohan Das, Professor & Head, Mechanical Dept.

Department of Computer Science and Engineering
In this academic year another advancement in the Project quality improvement is that 90% of the projects that were taken up by the students are real time projects given by both Industry and faculty members. Out of 31 Student Projects of CSE department in the current academic year, 13 Projects were given by the department faculty members, 12 Projects were internship projects given by the Industry and other 6 projects were proposed by the students.

Following are the projects done by the students in various organizations:
- "Hostel & Transport Management System" , 
- "Laboratory Management, Web based information exchange" , 
- "Training Section" , 
- "Time-Table Management System" , 
- "Shared Resources Monitoring System" , 
- "Works Progress" , 
- "Trainees Bio-Data" at IRISET
- "Internet Mailing System" at APOLLO MICRO SYSTEMS
- "HMI For ESM System" (Internship) and "Web traffic Monitor" at DLRL
- "Developing a virtual class room experience on the mobile" at RELGO TECHNOLOGIES
- "Signal failures monitoring system" at SOUTH CENTRAL RAILWAY

The Department Faculty Members have given the following projects:
- "Relaxed Multiple Routing Protocol for IP fast Reroute"
- "Transformation of XML Schema into UML"
- "BASIC CLOUD Buddy System for Android Mobiles"
- "Student Project Assessment System"
- "Student Activities Administration over Mobile using J2ME"
- "Constructing a Data Cube for Multidimensional Analysis"
- "Network Based Staff Communication system"
- "Faculty Administration System"
- "Routing Algorithms Simulation and Efficiency"
- "Divide and conquer approach for clustering mixed numerical and categorical data"
- "Implementation of Indexing for spatial Data Bases"
- "Mobile based Transport Management & Tracking System"
- "A mobile phone based intelligent scoring approach for assessment of critical illness"

Following is the list of projects selected by the Students and approved by the Department:

**Project Titles**
- "Family mobile health records"
- "UR BOOK"
- "Intelligent Heart Disease Prediction System Using Data mining Techniques"
- "Design and Implementation for the Examination system of Multimedia Course Practice"
- "WEB’s EYE"
- "Web site builder"

- P. V. S. Siva Prasad, Head, CSE Dept.
Department of Information Technology

To give live project experience to the students, the department could get academic projects from prestigious government agencies like Indian Railways Institute of Signal Engineering and Telecommunications, RailTel Corporation of India, National Geophysics Research Institute, Electronics Corporation of India Ltd., Institution of Electronics and Telecommunication Engineers and Bharat Sanchar Nigam Limited.

Mobile Apps like Android Mobile Application for Railways and Accessing Health Records through Mobile developed by our students got wide popularity and appreciated by industry professionals and now is being marketed by our Entrepreneurship Development Cell.

Web based projects such as RFID Cash Card Implementation of Hostel and Canteen Management System and Students Attendance and Academic Record System developed by students, were well appreciated by CMC Limited in the Project-Expo’13 organized by CMC Limited, Hyderabad.

RailTel Corporation of India’s Project “Operations, Maintenance, Administration & Provisioning (OAMP) Management of DWDM Network” done by students received outstanding feedback from RailTel Corporation of India. The project is related to 3rd generation Digital Transmission Network on OFC. In this network wave lengths up to 40, 80 or 120 or more as per ITU-T grid are multiplexed into optical line signal to carry information over longhaul network. Each wave length carries client signals of 1G / 2.5G / 10G as multiples up to 100G capacity and thus making possible the information super high way.

Management of such vast network over longhaul with several Add Drop MUX, Digital Cross - connects is a challenging task, as it involves operations, administration, maintenance and provisioning as per desired traffic matrix and client interfaces. NMS tool developed by our students to take care of operations, administration, maintenance and provisioning as per desired traffic matrix and client interfaces had won accolades from RailTel Corporation of India Ltd.

For details regarding the research activities please visit the department website and also the head of the department can be contacted at hodit@nmrec.edu.in

- K. C. Arun, Head, IT Dept.

B.Tech First year student Projects

The first year B.Tech students with their knowledge in physics, chemistry and mathematics, developed many working models and participated in the projects exhibition by exhibiting projects in various areas. The total number of projects exhibited were 34.

Under the physics/electronics category, home security systems, Burglar alarms, alarms for vehicle safety, mobile detector, heartbeat monitor, mobile phone based water pump, water level indicator, musical keyboard, working rocket, automatic power saving system for shopping malls, and even micro controller based projects were demonstrated by the students.


The mathematical concept of curve tracing was also demonstrated as being the principle behind the construction of the pillars for the flyovers. Advanced 360° Robot, homemade vaccum cleaner, remote controlled Landrover were some more innovative projects.

- G. Venkat Reddy, Head, M&PS and H&SS Dept.
Engineering Education

People with definite vision and infinite zeal possess the ability to change the coarseness of a Nation

Engineering is a fascinating field which draws enormous attention and possesses a charismatic ability to generate curiosity. Traditionally according to Merriam-Webster’s dictionary, Engineering is defined as an “Application of Scientific and Mathematical principles” by which the properties of matter and the sources of energy in nature are made useful to people, in simple words it is a field of science which has the ability to serve and meet the needs of society. During and After the Industrial revolution in mid 18th century, Engineering has taken a giant leap globally from building fascinating architectures to manufacturing plethora of machines such as Engines and Computers. Prior to 18th century, many centuries ago Architectures were built and gratefully these architectures are still intact to this date. From generations the technologies used in building architectures and manufacturing machines have been well documented and have been improvised as well to meet the demands of the society.

Now the theory and practice of Engineering evidently has completely evolved towards a superlative quality which is renowned globally thanks to Stalwarts namely C.V. Raman, J.C. Bose, Vikram Sarabhai, Dr. A.P.J. Abdul Kalam some of the highly esteemed professionals in the current generation. The works done by each of these individuals is highly remarkable and have laid a strong foundation in India for growth of Engineering and its various principles.

Now based on the foundation laid by the stalwarts Engineering education especially in India has scaled new heights. Ideally the process of engineering education inculcates its pursuing individuals with thorough knowledge both theoretical and practical enabling them to be professionals who are capable of achieving his or her professional goals. The current engineering education system is expected to achieve the same and probably act as a mentor to individuals who are zealous about pursuing engineering science. The present engineering education system could yield better results by emphasizing the importance of practical oriented learning with efficient use of laboratories. To generate enough curiosity among individuals about Engineering and its science, engineering education should be based on content determined by learning objectives (suggested by Richard Feller), should emphasize on a definite teaching style which would address a broad spectrum of learning styles such as visual, verbal, abstract, active, reflective and etc.

The tussle between Quality and Quantity will always be inevitable if there is no proper balance in the motives of individuals who conduct or teach Engineering as well as the attitude within the individuals who are pursuing Engineering. For instance the goal of every educational institution is to produce a group engineering professionals of highest quality and if the motives of group of individuals who are pursuing the Engineering Education deviate from this motive then there is a possibility that individuals might lack Quality required of an Engineering professional.

The quality of an Engineering Professional refers to his or her ability to apply the knowledge influences, possess problem solving skills and strategies the individual has acquired during the period of his education to meet the demands of the society or industry. According to Richard Felder there are chronic industry complaints about skill deficiencies in Engineering Graduates. In India from the state of Andhra Pradesh alone about half a million individuals pursue engineering each and every year. Though quantity of the engineering professionals is taking the center stage yet the quality aspect definitely calls for improvement. The only way of overcoming the challenge of skill deficiencies is to prepare the engineering students to becoming quality professionals.

Now if we take the students perspective about current engineering education system, students opine that existing curriculum in current educational system does not prepare them enough to meet the specifications of Industry and make them employable. So it calls for bridging the gap between teaching and learning. The current crop of engineering students must be encouraged to make efficient use of the laboratories, work on engineering projects that would improve their critical and analytical thinking. The current engineering education system in the near future is expected to improve the standards of assessing both the teachers as well as students and train the teachers on providing quality education and its importance.

Ideal Engineering Education inculcates its pursuing individuals with thorough knowledge both theoretical and practical Engineering Education should equip its pursuing individual with superlative quality. Further this would only be possible if the pursuing individual is zealous in his or her attitude for learning and application.

References

Contributor: Ravi Mohan, Asst. Prof., ECE Department
CSE Department is constantly working on the quality aspects of the Projects. Over a period, the department has set standards in documenting the projects and also encouraging the students in using "LaTeX". In the department of CSE, students are encouraged and motivated in doing research related projects.

In the current academic year i.e. 2012 – 13, the department of CSE has crossed another milestone by implementing a new Project Assessment methodology for improving the Quality of the Projects. Rubrics have been defined for assessment at various stages of the project progress. (Rubrics are nothing but a set of criteria clearly defined that indicate the scores that can be obtained when a particular criteria is met.)

**Salient features of Project Assessment by the Rubrics and Grading:**

1. Project Assessment is done at different stages of the Software development process. The purpose of staged assessment (or assessment in stages) is to provide feedback for students at various points throughout the project. This enables students to attain the maximum benefit and guidance throughout the project period.

2. With Project Assessment standards, all the students will be engaged in meaningful activities. The teacher who will be the project guide will monitor groups to prevent one member of the group doing most of the work while the rest do very little.

3. In this Project Assessment by the rubrics, the supervision of the projects is vital and stages of work could be observed and graded systematically, recorded and reported back to student project groups.

4. The purpose of assessment is to provide information about the students who have been assessed to the guides and intern to the students of the Project group. Feedback should be given at the end of each stage so that students know exactly what grades they have achieved up to that point. Feedback can be negative as well as positive since students need to know their strengths and weaknesses.

5. A rubric is a multi-purpose scoring guide for assessing student projects and performances. Rubrics improve the skill of the students and help them to assess themselves in excelling.

**Student’s Feedback on the Project’s Assessments:**

College is using the project assessment rubrics, I feel rubrics not only help the faculty in assessing the students but will also help the students to know where they stand and how to work hard in order to improve their skills and grades. Assessment engages the students directly in the evaluation of their own work. So, I personally feel that this project assessment helps the students in many ways. It helps us to analyze our mistakes and helps us to plan our projects properly.

**Shweta Bhaskara**  
CSE-IV

It helps us to know where we are lagging behind which in turn helps us to reduce our mistakes and concentrate on particular aspects where the students need to improve.

**Satyadeep Kothwaigudem**  
CSE-IV

Using rubrics will help the student for trying to enhance his/her ability in presentations and also improving quality in developing the software project. Using project assessment using rubrics a systematic approach will be imbibed in the students as well as faculty in awarding marks. This will mean that students will be qualified and quantified according to their performance based on a particular standard scale, rather than without any reference.

**T. Pavani**  
CSE-IV

Project assessments are useful to an individual or group for improving performance and growth in projects. It helped us in managing time, improve our communication skills, presentation skills, learn the concepts in depth and prepare well to explain them. It engages us directly in the evaluation of our own work and helps to plan our projects accordingly. Students can use the rubrics for self-assessment as individuals, in groups, and for peer assessment. Since the criteria for assessment are clearly defined in gradations from A+ to C-, no student or group wants to be in a low grade position and this allows them to grow individually and enhance their thinking capabilities in order to secure a good grade point. I feel Project Assessment is a must for all students for evaluating themselves in every aspect.

**K. Sanjana**  
CSE-IV

Contributor: P. V. S. Siva Prasad, Head of the Department, CSE
ENTREPRENEURSHIP DEVELOPMENT PROGRAMMES

The Entrepreneurship Development Cell of NMREC has organized three EDP Orientation Programmes in association with National Small Industries Corporation, Hyderabad on 5th, 23rd and 28th February 2013. Experts from NSIC have handled sessions with focus on entrepreneurship and motivated the students to take up enterprises. 319 students of B.Tech Mechanical, Electronics and Communication, Electrical and Electronics, Information Technology, Computer Science, and MBA have been trained in ED Orientation. Practical orientations coupled with theoretical concepts were explained. The programme covered the following topics: Introduction of NSIC and their lending and support activities like Marketing Support, Credit Support and other Support Services, importance of MSMEs, concepts relating to starting of a new business, the selection of name and constitution of the enterprise, preparation on bankable projects, registration of business enterprise with various authorities, approaching banks for finance, The role of banks and terms lending institutions. Students have expressed their happiness on the contents and methodology of the programme and requested the management to organize such programmes in future also.

SEMINARS

Nalla Malla Reddy Engineering College was host for a guest lecture on 'Cloud Computing' by Mr. Rajesh Thirumala Raju of Sify Technologies Ltd. on 18th September 2012.

A technical seminar on "Building an Architect View to Work on Object Oriented Programming Based Projects" was conducted by Pratap N.Chilkuri of Neo App Technologies Private Ltd on 22nd Nov 2012. This seminar has covered the cardinal aspects of object oriented programming, object oriented programming languages (Java & Net), competent projects which can be carried out in Java and Net, and job opportunities with Java and Net. This seminar was vital for final year students, as it highlights the exposure which is required for them in choosing their projects.

Mrs. Devika Bhatnagar-Associate Professor- of AVN Institute of Technology gave a talk to the MBA students on "How to face interview-Tips" on 30th January 2013.

Dr. M. L. Mittal, Visiting Professor, ECE department gave a lecture on "B.TECH PROJECTS" to the third year ECE and CSE students in February 2013.

Mr. M. Ravishankar DGM, BSNL Hyderabad gave a lecture for ECE students on "REAL TRENDS IN MOBILE COMMUNICATION" in March 2013.

Prof. V. Vishwanatham (Retd. Professor from OU), delivered a talk on "To be a Better - Study skills" on 20th March 2013 organised by 'The Hindu' group of publications for all the first year students.

WORKSHOPS

A one day workshop on "O&M Practices of thermal power stations" was conducted on 7th March 2013 by AEE at CFDM hall. Two guest speakers from APGENCO delivered the lectures. This workshop was coordinated by D.B.Krishnamurthy, Associate Professor, EEE.

Department of IT and RCV innovations Pvt Ltd., a leading cloud service provider organized two day workshop on cloud computing for fourth year IT students. This was helpful in imparting practical training in leading edge technologies such as virtualization and collaboration in cloud computing. Other topics such as enabling technologies for cloud
computing, cloud computing architecture, deployment and service models, career paths in cloud computing were also discussed in the workshop. The workshop enables students to successfully complete the associated CompTIA Cloud Essentials Exam to become a Cloud Essentials Professional (CEP).

One day workshop on “ROBOTIC-ROBO FEST” was conducted by the department of Electronics and Communication Engineering on 9th March 2013.

A series of workshops on PCB Fabrication and Basic Electronics were conducted on 26th March 2013, 3,4 and 5th April 2013 by the senior students of the Electronics and Communication Engineering department for the junior students. A record number of 230 students participated in the workshop and learnt the intricacies in Electronics.

**Centre for Faculty Development and Management (CFDM)**

Faculty members of NMREC have undergone training for a week to improve Basic Teaching skills, class Room Management, and Effective Explanation in the Class, Innovative Teaching Strategies, Mentoring skills and other related methods, conducted by Dr. Uma, Director CFDM.

As a new initiative in the process of quality improvement, faculty seminars have been started to be conducted regularly on alternate Saturdays at CFDM.

- Mrs.A Ushasree, and Mr.Ravimohan, Assistant Professors in the Department of ECE, delivered the first lecture in the series on “Metrics and Methodology for assessing Engineering Instruction” on 5th January 2013. The session was followed by a talk by Mr.Bhanoji Rao, Associate Professor in the Mechanical Engineering department who spoke about “Higher Education Permanent Indices”.

- The next in this series was given on 19th January 2013 by Dr.V.V.Subbarao, Professor in the Dept .of Management Studies on “Student-Centric versus teacher-centric learning”

- Mrs. Uma Devi, Asst.Prof, Dept. of Management Studies spoke about ” The role of a teacher in quality education” on 2nd February 2013. The same day Mr.Venkatesam of ECE Department delivered a talk on “Positive approach in teaching”

- Prof. I. Sudhakar of ECE Department shared his experiences in Engineering Colleges on 16th February 2013.

- A lecture on “The Many Faces of Inductive Teaching and Learning” was delivered by Mr.V.Vijay Kumar on 16th Feb 2013.

- On 30th March 2013, Mr.P.V.S.Sivaprasad, Head of the CSE Department, presented a talk on his PhD research work.

**Legal Awareness Programme**

A Legal Awareness Program was conducted at Nalla Malla Reddy Engineering College by the IInd Metropolitan Magistrate of the Rangareddy District Court Sri D. Durga Prasad.

The major session was done by the Hon’ble Judge who made the event a thorough one. It was his interaction with the students and the way he presented the information about legal aspects which were the most interesting.

Most of the legal aspects that a common man comes across were spoken about in a subtle and humorous tone with a stress on the responsibility that lies on them as citizens of the nation. Some of the students were given away books on Indian Law by the Hon’ble Chief Guest who also appreciated the dress code followed by the college.
Advocates Mr. Subhash Chandrabose, Mr. Narayana Reddy, Mrs. Rani, Mrs. Laxmi, Mrs. T.V.S. Laxmi, and the SI of Medipally PS gave an insight into various aspects including cyber law, nirbhaya act, corruption, dowries, elections, and some of the important laws that students could come across in their regular life. Mrs. Rani advised the girls to learn self-defense skills like karate to protect themselves.

The session was attended by the students and staff of Nalla Malla Reddy Engineering College. Overall the Students have undergone a very interesting and essential session on the basic legal aspects.

**TECHFEST-2013**

Techfest is the annual technical event conducted by NMREC where all the departments of the college conduct their individual technical fests together. It is the platform where one gets a chance to update oneself with the latest developments and advancements in the field of science and technology. This wonderful fest paves a way for young engineers, technocrats and budding managers in exchanging their thoughts, ideas and innovations. Tech Fest 2013 was colorful in the light of six stars of the college. The six stars are Shodhana (MBA), Yatna (EEE), Sambhavaat (MECH), Ganith Vignan (M&PS), Cihan ECE), and Medhas (CSE & IT). Nearly, fifteen hundred Students from various universities had participated in this Techfest 2013. Many of them have appreciated the performance of our six stars. Web Site Design for the techfest 2013 was done by Srinivas Raj Mohan of B.Tech IT fourth year.

**Sambhavaat-2013**

As a part of the Annual Techfest., Dept. of Mechanical engineering conducted several interesting technical as well as non technical events under the name Sambhavaat-2013. Students from our college as well as from other colleges participated in large numbers with lot of interest and enthusiasm.

Technical paper presentation, technical quiz, CREA (Assembling and dissembling of IC engines), were some of the technical events which drew lot of attention from the participants. Robotic events like ‘All terrain’ were a major hit with the participants. Apart from the technical events, some fun games, memory games etc. were held as a part of the non technical events.

There was also a display of the technical projects of the final year students which brought to the fore the technical skills, imagination and up-gradation of the knowledge levels of the students. Projects based on un-conventional energy sources such as ‘Solar energy’ drew lot of attention. Solar powered refrigeration system and solar powered turbines for electricity generation were some of the interesting projects.

There was also a display of paintings of Mr. Goutham reddy, one of our third year students which attracted everyone’s attention.

Thus the Two day annual tech fest event really left all the participants fully energized and recharged.

**Medhas 2013**

An Inter College Paper and Poster Presentation event was organized jointly by IT and CSE Departments to bring out talents from Computer Science Engineering and Information Technology fields. Students from various colleges participated in the events and exhibited their knowledge and skills.
The number of papers registered is 38. Mr. K. Yohan and Mr. M. Srinivas from Department of CSE were the judges for the paper presentations.

K. Rachana Reddy and M. V. Saranya studying B. Tech(CSE) from Osmania University Campus got the first prize for their paper on Digital Signalling and Image Processing.

Apoorva and Keerthana studying B. Tech(CSE) from KITE got the second prize for their paper on Brain Finger Printing.

Veena and Aparna studying B. Tech(CSE) from NMREC got third prize for their paper on EyeGaze Communication

Mr. P. S. V. Siva Prasad, HOD of CSE was the judge.

Akhila Chilkuri and V. Maithri studying B. Tech(IT) from NMREC got the first prize.

3D Film show, Short Film contest, Technical Quiz, GD/Debate, Designers Hub, Code Debugging, Memory Game, Pic the sum were some of the technical events conducted

K. Srinivas and V. Manisarma
Assistant Professors, CSE & IT Departments

Cihan 2013

The Electronics and Communication Engineering department conducts a National Technical Paper Contest yearly for the students. Every year about 100 papers are received on various subjects such as Communication: Satellite, Mobile Communication, Optical Communication, Microwave and Antenna, Nano Technology, Robotics, VLSI, Embedded Systems etc.,

A group of senior faculty members go through all the papers and select the best for presentations at the Techfest-CIHAN. This year a total of 80 papers were received on various subjects and the best 29 papers were selected based on the content & quality.

Cihan2013 was conducted on 15th March and the following papers were awarded prizes based on presentation – slides, Explanation and question answer session.

1st Prize: “Transparent Electronics” by Biswajit, and R. Anil Kmar of Sri Nidhi Institute of Science & Technology


3rd Prize: “Witricity” by K. Tanya Reddy and Priyanka of Nalla Narsimha Reddy Group of Institutions

The winners of Poster Exhibition category were


2nd Prize: “Space Elevator” by P. Lavanya & L. Prathibha of Nagole Institute of Science and Tech.

Apart from the above the students conducted Robotics under the technical category and Scary house and T-Shirt Designing etc, as part of the nontechnical events. The Fest was a grand success.

Prof. Ramchandra
Professor & Head, ECE Department

Yatna-2013

During the Techfest 2013 the department of Electrical and Electronics Engineering organized project exhibition on 14th & 15th March 2013. All students of EEE final year exhibited their projects. The projects based on Solar Inverter with mains backup, solar tracking, GSM based fault indication were also published in newspapers EENADU & THE HINDU. The media representatives visited various stalls. During YATNA 2013 the department has conducted following events: Paper presentation, Green Quest, Robotics(F1 Race).

In the event paper presentations Anil Dhawrath & A. Prakash from TRRIT college secured first position.

In the Green Quest event, B. Ranasheshu & Himaja from KMIT college bagged the first prize.

Robotics(F1 Race) event winners were N. Abhishek, CH. Anand Kumar & D. Vishnu of AVN college.
Technical Snakes and Ladders was the most innovative event of all. Other events that were conducted include Rat Race, Water ball pickup, memory masthi & Laser Alarm. Students actively participated in all the events.

V. Vijay Kumar
Asst. Prof. EEE

Ganithvignan-2013

Ganithvignan is organized every year exclusively for the first year B.Tech students as part of the Tech Fest. The Department of MPS & HSS has been hosting this event purely for first year B.Tech students. Its main objective is to improve and develop innovative and research skills among B.Tech first year students. As part of this program, a Science quiz was conducted, and competitions were held in working models, paper and poster presentations in mathematics, physics and chemistry especially for the first year B.Tech students.

G. Venkat Reddy
Assoc. Prof. & HOD, M&PS

Shodhana 2013

The department organized a national level management meet Shodhana-2K13 on 29th March, 2013 inviting students of MBA from different Universities/Colleges across the nation. This meet was directed towards searching for the Best Young Managers of tomorrow.

The following events were organized during the Management Meet:

Yuva Pradhana (Young Manager): This event focused on bringing out the talents of participants on their business acumen and how they react to the difficult/different business situations.

Upahasana (Paper Presentation): The participants were advised to present a paper on the following topics:
- Foreign Direct Investment in Retailing.
- Role of Government in Financial Exclusions.
- Entrepreneurship – A Road to Employment.

Virtuoso (Business Quiz): This was to test the fundamental knowledge of the participants and how this knowledge could be applied in practical business scenario. Two participants per team have participated in the quiz. Preliminary screening followed by the final quiz was organized.

Aavishkar (Business Plan): This event aimed at bringing innovative ideas and unique products from an existing product. Two participants per team were allowed to join the presentation.

Vijjapana Nirmiti (Ad-making): The main thrust of this event was to bring the importance of advertising which plays a significant role in business world. The participants have highlighted their products by demonstrating the features and all relevant details of the product.

In addition to the above, the following informal events were also organized: Tambola, Treasure-Hunt, Balloon Blowing.

Students of MBA and participants representing various city colleges have participated in the Management Meet. Students of B.Tech, MBA and other colleges have participated in all informal events.

Mr. Venkatesam, Associate Professor, ECE Dept. and Mr. Bhanoji Rao, Associate Professor, Mechanical Departments were the judges of the meet. Mementos and certificates were given to all the participates of the events.

A. Rajashekar
Assoc. Prof & HOD, MBA
Industry Institute Interaction promotes and brings closer relationship and positive role, resulting in growth for both. The annual Industry Institute Research Meet-2012 was organized at Nalla Malla Reddy Engineering College on 15th December, 2012. The meet commenced with the welcome address of Dr. Divya Nalla, Principal of the college. In her opening remarks, she has highlighted the courses offered by the college and initiatives taken to improve the skill and knowledge of the students to meet the present requirements of the industry.

Sri Nalla Malla Reddy garu, Secretary, Nalla Malla Reddy Education Society, addressed the delegates and reiterated that NMREC is always ready to improve knowledge and skill through research and interaction with the industry. Dr.C.M.Vara Prasad Rao, Director, Research Centre of the college explained about the activities conducted on research front. He also stated that the college is unique in many aspects.

Shri. C.V.S. SASTRY, Director, Advanced Numerical Research And Analysis Group (ANURAG), DRDO, was the Chief Guest of the day. While delivering the inaugural address, Mr.C.V.S.Sastry emphasized the need for Industry Institute Interaction from time to time to understand the mutual benefits arising out of such meets.

Dr. B.L.Jaiswal, General Manager, M/s. Anant Technologies Ltd, Hyderabad, delivered the key note address. In his speech, he stated that India has the largest science and technology based manpower and if we master the economies of knowledge, we can become the major economic power in years to come.

The delegates and other participants of the meet have visited the exhibition arranged by the students of the college on various technical and management domains. In the afternoon session, the Panel was chaired by Dr. A. Rama Krishna Prasad, Director In-Charge, University Industry Interaction Cell, JNTU, Hyderabad. The meet was attended by more than 40 delegates from various fields/sectors of the industry and faculty and students of the college. Deliberations have taken place on the following main themes:

- Industry Expectations from Institutions
- Role of Industry in Improving Academic Standards

In addressing the delegates, the chairman of the panel explained about the Industry Ready Students and brought out the developments that had taken place in various countries. The panel members were asked to respond on the theme based on their experience and expertise. Most of the panel members were ready to extend their cooperation in nurturing the students either in training or through employment. Dr.C.M.Varaprasad has made his concluding remarks on the deliberations and conveyed the vote of thanks.

Memorandum of Understanding

International Council of Electronic Commerce Consultants (EC-Council), a professional Information Security and Ethical Hacking certification body headquartered in New Mexico agreed to enter into Memorandum of Understanding with Department of Information Technology to support and enhance the role of individuals and organizations who design, create, manage or market Security and E-Business solutions. The MoU signed by Mr.K.C.Arun, Head, Department of Information Technology and Mr.Jai Bavisi, President, EC-Council Foundation. Through this Memorandum of Understanding, EC-Council will be providing Electronic Commerce Consultant certification as well as educational, technical, placement, member advantage and discounted services to our students.
CSI student branch at NMREC

NMREC-CSI Student Branch organized seminar on HTML5 and CSS3 on 22nd Feb 2013 at CFDM. Mr. Vinay kiran and Mr. Raghu from III CSE delivered the lecture on HTML5 and CSS3. This seminar provided a complete introduction to HTML5 and CSS3. The contents include how to build HTML5 pages, understanding differences between HTML5 and HTML4, working with new Canvas element to create code based drawings in HTML5, using Web Storage for offline applications and working with audio and video. They created few web pages using new semantic elements and attributes of HTML5. This seminar provided how to create different kinds of animations using CSS3 and how to make HTML5 sites degrade gracefully. Around 60 members have attended the seminar from CSE and IT Departments.

Inauguration of IEEE Student Branch at NMREC

The IEEE Student Branch was inaugurated at Nalla Malla Reddy Engineering College, Divya nagar, Ghatkesar on 4th April 2013. The Chief Guest for the event was Dr. M.B. Srinivas, Professor and Dean, Administration, BITS Pilani, Hyderabad Campus. Prof. Syed Musthak Ahmed, Student Activities Chair, IEEE Hyderabad Section was the special invitee. The students were elated at the declaration of inauguration of the IEEE Student Branch by the Chief Guest. Delivering the inaugural address, Dr. M.B. Srinivas gave valuable information to the students on how to leverage their IEEE membership to be technically updated and improve their skills. He also remarked that being members of the student branch, the students can develop leadership skills and work as a team to fulfill their common objectives and wished them all success ahead.

There was also an interactive session wherein the students actively participated and clarified their doubts. The principal of the college Dr. Divya Nalla, Prof. Syed Musthak Ahmed, Prof. R. Sadasiva Sarma, Dr. S.C. Bhargava also addressed the students and congratulated them. The Executive Committee of the Student Branch was formed with Prof. R. Sadasiva Sarma as the Branch Advisor and Mrs. T. Rajani, Associate Professor, Dept. of ECE as the Branch Counsellor.

- The student members of the committee are
  - Sree Rajya Lakshmi Popury (ECE – III) (Chairperson)
  - Prashanthi Mudireddy (EEE-III) (Vice-Chair),
  - Sai Kiran Siddenki (ECE– III) (Secretary)
  - Nagarjuna Busani (EEE-III) (Treasurer)

The experience at the inaugural programme itself made an indelible impression on the enthusiastic students and provided the required initial momentum.

ISTE faculty chapter at NMREC

ISTE faculty chapter of NMREC was inaugurated by Prof. V Rama Rao, Hon. Secretary, ISTE, Andhra Pradesh section on 6th April 2013. He gave an insight into the advantages and benefits to the members of ISTE which helps to improve the technical education of faculty community. He explained elaborately the functions and activities of ISTE. On his part he congratulated and welcomed the faculty members who have enrolled as life members of ISTE.

Principal Dr. Divya Nalla, extorted faculty members to become active members of such technical societies which provides opportunity for improving quality in technical education.

Dr. C.M. Varaprasad, Director, Research Center, NMREC, explained the importance of becoming a professional body member, and benefits of the membership and chapter, and encouraged faculties to work for higher individual goals during the induction training for teachers.

Dr. G Uma, Director, CFDM, NMREC congratulated all the faculty members for taking ISTE life memberships, and instructed to use this chapter for research, publishing papers, project works, and guest lectures etc.
Department of CSE

The Final year CSE students visited CMC, Gachibowli campus on the 27th Dec., 2012. It was basically an orientation programme conducted by CMC. To begin with, there was a seminar on the overview of the company conducted by the HR of CMC. At first broad guide lines were given to the students to gear up for facing the interviews, followed by Mr. Mandala Ravi, the BMU head highlighting the growth achieved by CMC since its inception and also interacted with the students regarding their final year projects. The last session was conducted by Mr. Bhoolokam who gave some useful tips to the students regarding the body language, the required personality and technical skills during an interview.

Finally the students went around the company and took note of the ongoing projects there. Some of the real time projects like Online Railway Reservation, the ‘Thumb Impression’ project for authentication were really interesting.

Department of IT

As a part of industry visit, the final year IT students had visited the CMC campus on the 26th of Dec.’12. The Head of the Education and Training Division briefed about the latest technologies and training courses offered by them. The HR Head emphasized the qualities that each student should possess for better placement. The students were accompanied by Mr. Srinivas, Asst.professor and Ms. Madhavi, Asst.professor.

Students of the final year visited ‘IRISET’ on the 18th of Jan. 2013 under ‘Industrial Visits Programme’. The students had an opportunity to study the ‘Tele-communication and Signaling Systems’ employed in Railways apart from visiting various other Electrical Labs.

Some of the students of final year had been to ‘NGRI’ on the 18th of Jan.’13 under the ‘Industrial visits’ programme. The students have gone through the Geographical Study Labs and also attended a session on ground water storage and its importance. Some algorithms were also suggested by the students in connection with the analysis of ground water calculations.

Department of Mechanical Engineering

The students of 3rd year Mechanical Engineering have been to Kerala on an industrial tour during 24th Jan – 31st Jan 2013. They have visited the Kerala Electrical & Allied Engineering Co. Ltd, a company that manufactures and tests transformers. It was an established organization and the students had an excellent opportunity of getting exposed to a realistic industrial environment. All the technical processes and procedures were very clearly explained by the company officials.

They also visited the Kerala Coir Board Works site which deals with the coir products. It was amazing to see the vast range of products being made out of coir. The manufacturing and allied processes were elaborately explained by the concerned personnel. It was a very good experience for the students as far as learning about new products is concerned.

Apart from these visits to the industrial establishments, the students have visited the famous Kovalam Beach etc. during the trip. In all, about 50 students have gone on this industrial trip accompanied by the faculty Mr. Ramnath Reddy, Mr. Veerendra Prasad and Ms. Pallavi.
Department of Computer Science Engineering

Faculty activities:

Prof G. V. Anjaneyulu has been nominated as an organizing committee member for the IETE midterm symposium conducted in Hyderabad from 20th to 22nd April 2013.

Mr. K. Yohan and Mr. Srikanth Reddy, Asst. Professor Department of CSE qualified in AP-SET (A.P-State Eligibility Test) examination conducted by UGC-Osmania University in July 2012.

Ms. Keerthi Pendam, Assistant Professor attended a workshop on "Cloud Computing" organized by CDAC, JNTUH on 11th December 2012.

Ms. Keerthi Pendam, Mr. S. Ramchandra and Mr. K. Prashanth, Assistant Professors of the department attended two day workshop on "Information Security" organized by JNTUH from 8th and 9th March 2013.

Mr. M. Dileep, and Ms. Keerthi Pendam, Assistant Professors of the department attended one day workshop on "Cloud Foundry and Framework" organized by Spring One India, Hyderabad on 13th December 2012.

Mr. M. Mani Sarma, Assistant Professor of the department published a paper "Data warehouse design problem through a schema transformation approach" in IJEIT, Vol 2, issue 6, pp113-117 Dec 2012.

Mr. Yohan, Assistant Professor of the department attended a national conference on "Research issues in data stream association rule mining" on 4th March 2013 at Vaageswari Engineering College.

Mr. Durga Bhargavi, Assistant Professor of the department published a paper "The development of an algorithm for fingerprint recognition by image processing techniques and considering types of minutiae points" in ICECIT, December 2012.

Mr. Anil Kumar, Assistant Professor of the department had published a paper "Generation of meta alerts by aggregating intrusion alerts" in IOSR-JCE, Vol 8, Issue 5, Jan-Feb 2013.

Mr. Maruthi, Assistant Professor of the department had published a paper "A novel based similarity measure on learning technique and comparison with image processing" in IJERD, Vol 2, issue 8, pp 29-31, Aug 2012.

Mrs. Meenakshi, Assistant Professor, and Mr. Manisharma, Associate Professor of the department had attended 2nd International conference on "A rubric based assessment of student performance using fuzzy logic" held at J.K. Lakshmipat University Jaipur, Rajasthan during 28th to 30th December 2012.

Department news:

A technical session was organized on the topic "Organizing the technical modules". This session was handled by Mr. Manoj Raj, Spares Info Systems on 28th December 2012.

A technical session was organized by Mr. Jaya Sagar, Greeks Labs on 30th January 2013 on the topic "Industry related tools".

A technical session was organized on the topic "Ethical Hacking". This session was handled by Mr. K. Rajesh of Firewall learning solutions on 6th February 2013.

A technical session was organized on the topic "C# Technologies". This session was handled by Mr. Ram Pendyala from Logic Design on 31st January 2013.

Department of Mechanical Engineering

Faculty activities:

Dr. T. Mohandas (Professor and HOD, ME) attended three day workshop in the National seminar on welding conducted by Indian Institute of Welding, Bangalore Chapter during 7th to 9th Feb 2013.

Dr. T. Mohandas (Professor and HOD, ME) attended one day workshop on metallurgical investigation on failure analysis conducted by society for failure analysis in association with Institution of Engineers, Hyderabad on 16th Feb 2013.

Mr. M. N. V. Ramesh, Associate Professor attended two day workshop on Entrepreneurship Development conducted by JNTUH.

Mr. T. V. S. M. R. Bhushan, Assistant Professor and Mr. N. Pavan Kumar, Assistant Professor attended a one day workshop on applications of MATLAB at PARK, Hyderabad during July 2012.

Mr. Babu, Assistant Professor attended two day workshop on latest production process at MVSR Engineering College during 1st to 2nd March 2013.

Ms. Meher Shilpa, Assistant Professor and Mr. Veerendra Prasad, Assistant Professor attended a one week workshop on engineering drawing at Aurora engineering college during 16th to 21st July 2012.

Mr. Veerendra Prasad, Assistant Professor attended a one day workshop on effective use online material conducted by Classle at G Narayanamma Institute of Technology, Hyderabad.
Dr. T. Mohandas (Professor and HOD, ME), Ms. Pallavi and Mr. Anoop Kumar had published a paper titled “Optimization of turning parameters for surface roughness using Taguchi Method” in International Journal of Mechanical Engineering.

**Student activities:**

P. Priyanka and N. Swathi from II-B participated in paper presentation in Nalla Narasimha Reddy Group of Institutions on 1st Feb 2013.

M. Kavyasree from II B participated in paper presentation in SNIST during 22nd - 24th Feb 2013.

Navya and Lavanya from II B participated in paper presentation at ACE College of Engineering and Technology 22nd Feb 2013.

Akshay Hemanth, Abhishek Kumar Pathak, Abishek Agarwal and Sailesh Shyam of II A attended the Global Entrepreneurship summit conducted by Indian institute of technology, Kharagpur during 11-13th January 2013.

**Department of Electronics and Communication Engineering**

**Faculty activities:**

Mrs. Rajani, Associate professor attended four day workshop on “ASR” conducted by department of ECE Osmania University on 7th to 11th Nov 2012.

Mr. S. Vasu Krishna Associate Professor attended a conference on low power design and implementation conducted by IEEE prime Asia conference on 5th Dec 2012.

Mrs. N. Manisha Assistant Professor attended four day workshop “ASR” conducted by department of ECE Osmania University on 7th to 11th Nov 2012. She has also attended a national level program on technology enhanced learning held on 22nd Dec 2012 at Hyderabad.

Mrs. Ushasree Assistant Professor attended three day workshop on “42-ISTE ANNUAL CONVENTION” held on 20th to 22nd Dec 2012.

Mr. K. Naveen Kumar and Mr. M. E. Padmavathi Assistant Professors have attended three day workshop on “Recent Advances in Embedded Systems” conducted by IETE, Hyderabad on 28th to 31st Dec 2012.

**Department of Information Technology**

**Faculty activities:**

Mr. A. Vijay Kumar, Associate Professor, Mrs. K. Sunanda and Ms. K. Sri Ravali, Assistant Professors of the department had attended a workshop on “Cloud computing” organized by SpringOne India on December 13th 2012.

Mr. K. C. Arun, Head, Department of Information Technology was invited for Oracle Higher Education Seminar on Drive Academic and Operational Excellence seminar on 23rd December 2012 at Hyderabad.

Mr. K. C. Arun, Head, Department of Information Technology was invited for attending OTN DBA Big Data Hands on workshop by Oracle India Limited at Hyderabad on 30th January 2013.

Ms. Nagalakshmi, Assistant Professor, Department of Information Technology had attended “OTN DBA Big Data Hands on workshop” organized by Oracle India Limited at Taj Krishna, Hyderabad on 30th January 2013.

The research paper titled “SIG Analysis of Voice over IP” by Mr. K. C. Arun, Associate Professor, has been accepted for publishing in the journal of Engineering and Technology (IJET 0069).

The paper “Cloudlets : Genesis of cloud & mobile computing” by Mr. K. C. Arun has been accepted for publishing in the International Journal of Engineering CS Journal, KL, Malaysia (IJE 2013-2311)

Mr. A. Vijayakumar, Associate Professor, presented a paper titled ‘A novel approach for data security in cloud
computing using the Linear Programming’ at an International Conference on Advances in Computer sciences and engineering organized by Lords Institute of Engineering and Technology, Hyderabad.

Mr. G. Tirumaleswari, Department of Information Technology had qualified in AP-SET (A.P-State Eligibility Test) examination conducted by UGC-Osmania University in July 2012.

Ms. Sri Latha, Ms. Sri Raval, Ms. Chaitanya Bharathi and Mrs. Sunanda Assistant Professors of Information Technology got ratified as Assistant Professors from JNTU Hyderabad.

Student activities:

Students of third year IT D. Pranavi, Dharani, Nanditha Reddy, Tejasri, Srenika Reddy, Navya, Sai Lakshmi, Indira, SaiPriya, Devyani, Meena, Chauhan, Rana, Sidharth, Sarath, Sravani and Venkat had participated in SpringSpree Cartooning workshop 2013 at NIT Warangal, held from February 22nd to 24th 2013.

This academic year, final year students have released three software products such as Attendance and Academics Management System Version 1, aimed at replacing the existing system with an efficient software which maintains the student records in a centralized database; Library Management System Version 2, an enhancement of LMS Version 1 with RFID technology and Online Student Feedback System Version 2, an update of OSFS version 1 with new parameters.

Department of Maths, Physical Sciences, Humanities & Social Sciences

Faculty activities:

Mr. S. Karunakar, Assistant Professor of physics registered for PhD from JNTU in 2012.

Mrs. A. Padma, Assistant Professor of Mathematics published six papers in international journals.

Mr. M. Narasimha Reddy, Assistant Professor of physics presented and published a paper in a National conference.

Mr. P. Eshwara Murthy, Assistant Professor of English presented a paper titled “Women, Family and Society in The Fiction of Rohinton Mistry” in a seminar conducted by the Department of English, Kakatiya University, Warangal.

Mr. P. Eshwara Murthy, Assistant Professor of English, cleared his Pre-Ph.D (Part-I), Kakatiya University, Warangal.

Mrs. P. Joy Naomi, and Mr. M. Govardhan, Assistant Professors qualified in AP-SET (A.P-State Eligibility Test) examination conducted by UGC-Osmania University in July 2012.

Mrs. Varalakshmi, Assistant Professor of statistics and Mr. S. Karunakar, Assistant Professor of Physics qualified for FET Examination conducted by JNTU Hyderabad.

Dr. S. Sunitha Diwakar, Mrs. P. Joy Naomi, Mrs. G. Latha Suhasini and Mrs. G. Laxmi Sirisha Assistant Professors of English got ratified as Assistant Professors from JNTU Hyderabad.

Mrs. Y. V. Sita Vani, Mrs. M. Varalaxmi and Mrs. B. V. D. Shanti Laxmi, Assistant Professors of Mathematics got ratified as Assistant Professors from JNTU Hyderabad.

Mrs. D. Navaneetha, and Ms. S. Revathi Assistant Professors of chemistry got ratified as Assistant Professors from JNTU Hyderabad.

Mr. S. Karunakar and Mr. K. Bangaru Babu, Assistant Professors of physics department got ratified as Assistant Professors from JNTU Hyderabad.

Mr. M. Mouzood, Assistant Professor of English qualified in PGDTE from EFLU.
CHOOSING AN ENGINEERING COURSE: SELF INTEREST OR MARKET DEMAND

Present day students are at the cross roads as to which branch of Engineering he or she must choose after completing Intermediate or plus two. Now-a-days the self interest of a Student who wants to pursue Engineering is being dominated by the market demands. If we follow the events historically, after the industrial revolution most of the students preferred to pursue either Mechanical or Automobile or Civil Engineering. However, the advent of computers led to a great demand for Computer Science Engineering and Information Technology. But after a certain period due to the 9/11 terror attacks in US there was a major slump in market globally further which had a great impact on Software Industry. This impact gave way to communication revolution and wireless revolution came during 2000 AD. Due to this, a great demand arose in the field of Electronics and communication Engineering. The Multi National Company (MNC) culture that has entered the Indian market has attracted many Engineering graduates to choose for an Engineering course which would fetch them employability in MNC’s.

Now the demands of market especially job-oriented market evidently vary and fluctuate from time to time, in such a scenario the answer to the question as to choose engineering course either on market or self-interest remains hypothetical as each engineering branch is unique in its own way. If a student is zealous about pursuing a particular engineering course he or she could be certain of performing well in academics and carve a niche for themselves in the society after their graduation. Irrespective on what basis the decision is to be made, the students are expected to be result and detail oriented, possess analytical skills, ability to adapt and improvise, be a team-member and be self-reliant by the time they graduate from the institution.

From a recent survey conducted by the department of ECE at Nalla Malla Reddy Engineering College (NMREC) shown in Figure 1, it has been found that 53% of students prefer individual interests and 44% of students prefer choosing a course which would suffice the demands of the market.

Fig. Pie-chart representing a survey taken from a group of students on the selection method of students in choosing their branch of study in engineering.

"Choice of the branch should be motivating enough for the student to succeed. Motivation is driven by interest. Choosing a branch in engineering at an age where the student does not have much experience is definitely a tough task. Hence students generally prefer to select a branch based on the popularity or based on the feedback from someone whom they know and who are working in the field. This alone may not be enough for the right choice. Students must make use of the information available on the web and checkout all the possibilities in a certain branch of study - what one can become/do with degree in a particular specialisation. The student must then decide based on where he/she would like stand in life.

Selection based on market demand may not always lead to success as it is not driven by the student’s interest. Any branch selected shall have a bright future if best efforts are put in and the subjects are learnt thoroughly.

Dr.Divya Nalla

BRAIN- REASON FOR SOLUTIONS

A Brainy living body with its capability of applications unlimited in practice is the HUMAN BEING

Formula of BRAIN :

“X” Requires “X” Answers

What is this? Is it a math’s formula?
No, It is neither related to maths, chemistry nor physics. It is related to Brain. I call it, “The Brain formula. Any kind of questions can be answered using the Brain Formula given above!!

Disadvantage
Not applicable for Group discussion, During Group discussion the answer we give must impress everyone. So X may be more than one, so give the answer in such a way that everyone must be impressed.

-ABHINAV PASUNOORI

Contributor A.Ushasree, Asst.Professor, ECE Department
A TRIBUTE TO MOTHERHOOD

How did we squeeze to the world from the mother's womb?
Was it a miracle, or magic?
All of us, I believe, blinked for a while when we saw the light,
We then screamed with joy or sorrow and began our plight

We could only crawl and could not run,
For those watching us, it was terrible fun,
As we began to pull things around and go ahead,
We fell down and cried but still made the grade

We learned to walk with support like the old,
Our cries were heard by the lovely mother who obliged us with food,
We were then dressed and decorated like a doll,
In a pram she then took us for a stroll

When she began to chat we learned to talk,
Her hands supported us and taught us to walk,
She took us to school and made us learn,
Many a sacrifices she made only to make us stand up and earn.

Akshay Hemanth
Mechanical II A

Mother

- A word, that means the world to me :) 
  Cuddled in your arms
  Besides the worldly charms
  Feeling safe and secure
  Your Touch, it’s so pure

  I learnt to talk and
  Started to walk
  Was taught to share
  Under your concern and care

  I burnt my hand and
  Played with sand
  Holding your finger
  Memories still linger
  This eternal feel
  Is difficult to reveal
  Coz Language fails
  Grew, listening your tales

  Started this journey
  Without any money
  With you by my side
  It became easy and funny

“LOVE YOU MUMMY”

Srishti Makaria
CSE IV A

Life’s Greatest Teacher

When we take a closer look at the great thinkers throughout history, a willingness to take on failure isn’t a new or extraordinary thought at all. From the likes of Augustine, Darwin, Freud and sports legends of today, failure is as powerful a tool as any in reaching great success.

“Failure and defeat are life’s greatest teachers but sadly, most people, don’t want to go there,” Instead they choose to play it safe, to fly below the radar, repeating the same safe choices over and over again. They operate under the belief that if they make no waves, they attract no attention; no one will yell at them for failing because they generally never attempt anything great at which they could possibly fail.

One of the biggest secrets to success is operating inside your strength zone but outside of your comfort zone. Although you might fail incredibly, you might succeed incredibly—and that’s why incredible risk and courage are requisite. Either way, you’ll learn more than ever about your strengths, talents and resolve, and you’ll strengthen your will for the next challenge. If this sounds like dangerous territory, it can be. But there are ways to ease into this fearless mindset. The first is to consciously maintain a positive attitude of “no fear”, no matter what you encounter; you’ll be able to see the lessons of the experience and continue to push forward.

Finally, “If I become complacent and don’t take risks, someone will notice what I am doing and improve upon my efforts over time, and put me out of work. You’ve got to keep finding better ways to run your life, or someone will take what you’ve accomplished, improve upon it, and be very pleased with the results.”

Keep moving forward..!!

Gyanodhaya. Kundaram
Mechanical-IIA
**Life-A journey**

A journey to learn  
A yearning to earn  
Literally it’s complicated  
Practically it’s simple  
Like a smile with a dimple  

With stress all around  
We run round and round  
Worried about everything  
Are we missing something?  

Learn from a child and  
Smile for a while  
Convert dreams to thoughts and  
Thoughts to actions  

Love defines mother  
Care defines father and today  
Struck in new relations  
Are we forgetting definitions!!  

We’re regaining our conscious and  
Never be anxious  
Even our last days  
Be our happy days and  
This is a wish.....  
And with this, I wish you all  
A very happy journey..............!!!!

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**Are you determined?**

**“NEVER-SAY-DIE ATTITUDE”**

In 1883, a creative engineer named John Roebling was inspired by an idea to build a spectacular bridge connecting New York with Long Island. However, bridge building experts throughout the world thought that this was an impossible feat and told Roebling to forget the idea. It just could not be done. It was not practical. It had never been done before.

However, after much discussion and persuasion he managed to convince his son Washington, an upcoming engineer, that the bridge in fact could be built. Working together or the first time, the father and son developed concepts of how it could be accomplished and how the obstacles could be overcome. The project started well, but when it was only a few months underway a tragic accident on the site took the life of John Roebling. Washington was injured and left with a certain amount of brain damage, which resulted in him not being able to walk or talk or even move.

In spite of his handicap Washington was never discouraged and still had a burning desire to complete the bridge and his mind was still as sharp as ever. It seemed that there was a message for him not to give up. Suddenly an idea hit him. All he could do was move one finger and he decided to make the best use of it. By moving this, he slowly developed a code of communication with his wife.

For 13 years Washington tapped out his instructions with his finger on his wife’s arm, until the bridge was finally completed. Today the spectacular Brooklyn Bridge stands in its glory as a tribute to the triumph of one man’s indomitable spirit and his determination not to be defeated by circumstances.

Perhaps this is one of the best examples of a never-say-die attitude that overcomes a terrible physical handicap and achieves an impossible goal. Often when we face obstacles in our day-to-day life, our hurdles seem very small in comparison to what many others have to face. The Brooklyn Bridge shows us that dreams that seem impossible can be realized with determination and persistence, no matter what the odds are. We, the future engineers have to cultivate this “NEVER-SAY-DIE” attitude.

- N. Kavya

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**Srishti Makharia**  
CSE IV A  

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**EEE III year**
GROUP PHOTOS

EEE 2013 Batch

Mechanical Engineering 2013 Batch

IT 2013 Batch
GROUP PHOTOS

CSE 2013 Batch

CSE 2013 Batch
Projects on decreasing pollution of vehicles, alternate fuel generation, use of solar energy for power generation and refrigeration, new methods in welding, and many more mechanical engineering projects developed by the students were displayed at a project exhibition organised by the Nalla Mallu Reddy College of Engineering.

Students of electrical engineering displayed their skills through rotating solar panels, a very innovative method of detecting and correcting faults in electrical power lines, and many others.

Mobile applications for healthcare and railways, website builders, software for virtual classrooms, were some projects done by the students in the Information Technology stream. "Some of the software projects done by the students are already being used by the college for library management and other college management applications," said Divya Nalla. First-year B.Tech students also demonstrated projects such as burglar alarms, mobile-controlled robots, fuel, disinfectants, and low-cost home appliances.

ECO-FRIENDLY: Projects on various topics displayed by the students of Mechanical Engineering of the Nalla Mallu Reddy College of Engineering. — PHOTO: BY ARRANGEMENT

‘Go green’ is the mantra this season

The Department of Electrical and Electronics Engineering of Nalla Mallu Reddy Engineering College organised its annual national-level technical symposium 'Yatna 2013' with the theme 'Go Green' where students shared their ideas about making the planet greener and saving energy.

The paper presentation saw huge participation of students from EEE and ECE streams and students were exposed to innovative technologies and methods to solve various problems using engineering knowledge base.

Highlight

Robotics attracted tough competition, said Prashanthi Reddy, student coordinator.

The special open-to-all event ‘Green Quest’ saw students enthusiastically sharing their green thoughts through striking posters and presentations. Linking up with real-life situations, the participants could make an impact on the minds of the audience with their green captions.

Fun events

The fun events such as Memory Match, Bat race, and Power-line, etc., entertained the participants during the break between the sessions.

Principal, Divya Nalla and HOD EEE, K. Raghavendra commended the students' efforts.

R. RAVIKANTH REDDY