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Nalla Malla Reddy Engineering College

SRUSHTI

THE ORIGIN OF THINKING



Annual Report 2010-11

History of Electronics

Mathematics for Engineers

Learner Centric Teaching

Nalla Malla Reddy Engineering College

Discipline

Academics

Infrastructure

Placements

Sports

Strong Pillars for Success

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VOLUME - 2, Issue - 2

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Dr. Divya Nalla

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Design :

Dr. Sneha Nalla

DTP :

Srinivas Chinthala

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**Nalla Malla Reddy Engineering College
DIVYANAGAR,**

Near Narapally at 16th KM on Hyderabad
Warangal Highway 202,
Ghatkesar, Ranga Reddy-500088. A.P.
Phones : 08415-256001, 002 & 003

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Articles can be sent to editor.srushti@nmrec.edu.in

History tells that engineering and Mathematics have developed parallelly. All branches of engineering depend on mathematics for their description. Also there has been steady flow of ideas and problems in engineering that have necessitated and sometimes initiated new branches of mathematics. Therefore it is important that engineering students to have through knowledge of mathematics – especially in the topics related to the problems of their respective branch.

Now we mention some applications of certain topics covered in the mathematics courses during the first two years of B.Tech programme.

In complex analysis the discursion of bilinear transformations has been used to analyse AC circuits while the theory of harmonic functions has applications in heat transform problem as well as the study of current in a filed – effect transistor.

Laplace transforms have applications in electrical circuits and mechanical vibrations.

The Z-transforms are used in analogue filters and in constructing a discrete – time system model Fourier series have applications, among other things, to frequency response and Oscillating systems; while Fourier transforms are used in modulation, demodulation and frequency – domain filtering



The theory of matrices has been used in discrete – time systems, capacitor microphone and pole placement.

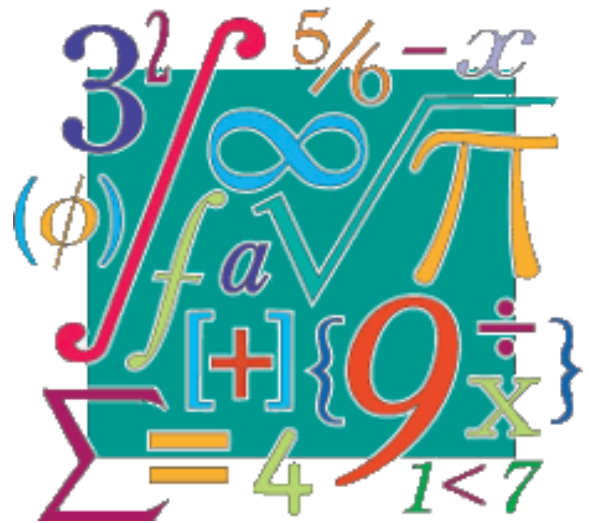
Vector calculus has deep applications in streamlines in fluid dynamics and heat transform.

Oscillations of a pendulum and heating of an electrical fuse are some applications of ordinary differential equations and their numerical solutions.

Partial differential equations are used in wave propagation under a moving load.

Analysis of engine performance data and statistical quality control are some applications of probability and statistics.

In view of the above, the students have to take been interest in all the topics taught in mathematics courses and refer to their applications in the respective branches.



HISTORY OF ELECTRONICS

How old is electronics? Who can say? How can we say when electronics has started? The answer is very difficult. As far as the memory goes back we can say that in Greek and Indian mythology the people having extraordinary power were able to send a message very quickly. So, what was the basis of that technology? Were they using any kind of wireless devices whose components are electronic as today's wireless devices; what ever it may be there is no clear idea of those technologies or no proof whether they were using those things or not.

In the 21st century we are enjoying well developed electronics. In some form or the other everyday we deal with the electronic devices. So, why are we interested to look at the past? Because it is required. Like the history of a nation from which its people get inspired, the history of any science inspires its future generations. This electronic world was not just the effort of some years or decades. Rather, it is the result of the hard work of great minds. So, now, it is the time to remember them.

Before the 20th century there was little or almost no electronics in the day to day life of a common man. So, the time before 20th century can be taken as the pre-developmental era in the growth of electronic technology. Electronics in the early 20th century started thriving at a greater speed unlike the pre-20th century developments. In the first decade the new thing that was welcomed to the technical world was the vacuum tube.

1940: Russel Ohl at Bell Labs developed the PN junction that produces 0.5 volts when exposed to light.

The findings of Russell Ohl had confirmed that pure silicon when doped with some impurities of tri and penta-valent materials can be used as two layers of a PN junction diode. They had some foresights that the junction phenomenon may be used for the building of a new amplifier.

1945: The group led by William Shockley found a new concept known as "Transistor effect". It was for the first time a transistor has been discovered by Bardeen and Brattain. That is known as point contact transistor. That was mainly contributed by Brattain and Bardeen, who thought that the effects are mainly due to some surface phenomenon. But Shockley was not dormant. He too was working hard on something different, which is today known as n-p-n transistor. He gave the theory that the transistor

effect was due to some bulk phenomenon. After he had worked hard on the semiconductor theories he gave a satisfactory explanation to the transistor effect. His book "Electrons and Holes in Semiconductors" is a popular book today as well.

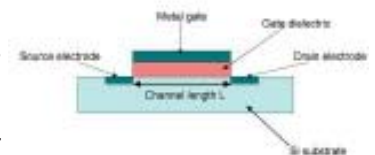
1951: William Shockley developed the Junction transistor, a more practical form of the transistor, the point contact transistor was difficult to produce and was replaced by the junction transistor. By 1954, the transistor was an essential component of the telephone system. The transistor first appeared in hearing aids followed by radios. In 1956, the importance of the invention of the transistor by Bardeen, Brattain and Shockley was recognized by the Nobel Prize in Physics.



1954: Industrial Development Engineer Associates produced the Regency TR-1, the worlds first commercially marketed Transistor radio.

1958: Jack Kilby in Texas Instruments found a very nice solution for problems like the assembling of the electronic components on a single mother board . He suggested to throw away all the wires and tried to connect the resistors, capacitors and transistors on the same piece of wafer internally. Surprisingly his ideas worked and gave birth to the Integrated Circuit industries. Thus the first silicon transistors were constructed by cutting a rectangular bar from a silicon crystal that was grown from a melt containing impurities.

1960: A new type of transistor was invented in early sixties, which is known as MOSFET. MOSFET is slower than the junction transistor but it is smaller, cheaper and consumes less power.



1962: Transistor-Transistor Logic invented

1963: Frank Wanlass at Fairchild Semiconductor originated and published the idea of complementary-MOS (CMOS). It occurred to Wanlass that a complementary circuit of NMOS and PMOS would

draw very little current. Wanlass used a depletion mode device biased to the off-state. Amazingly CMOS shrank standby power by six orders of magnitude over equivalent bipolar or PMOS logic gates.

1965: Gordon Moore came out with an awesome paper called "Cramming more Components onto Integrated Circuits". In that paper he described that the number of transistors used on a single chip of silicon will grow exponentially. In 1968, Rob Noyce and Moore started Intel.

1971: Intel company invented the first Microprocessor well known as 4004 having 2300 transistors on one silicon chip. The credit mainly goes to the young engineer Ted Hoff. He found some problems with integrated circuits and planned to have even larger integrated circuits which have the whole computer on a single chip. That microprocessor led the way to the successors like the 8080, 8085, 80486.

1972: The 8008 was the 8 bit successor to the 4004 and was used in the Mark-8 computer, one of the first home computers. Manufactured in the same silicon gate PMOS process with 10 μ m line widths, 1 poly silicon layer and 1 metal layer, the 8008 had 3,500 transistors, a 200kHz clock speed and a 15.2mm² die size.

1974: The 4Kbit DRAM introduced the 1 transistor cell and the silicon gate NMOS process. The 3T to 1T memory cell transition is the first major DRAM transition.



1980: A "modern" DSP as a single chip, programmable stand-alone solution with parallelism in multiply-add and memory access were introduced by Lucent and NEC.

1984: Masuoka, et.al., of Toshiba disclosed at IEDM the idea of an electrically programmable - non-volatile memory that could be rapidly erased in blocks.

(Flash Memory).



1993: The Pentium is the first processor from Intel capable of executing more than 1 instruction per clock cycle. The Pentium was manufactured in a silicon gate BiCMOS process, having 3.1 million transistors, a 60 to 66MHz clock speed and a 264mm² die size.

1997: The Pentium II introduced single in-line cartridge housing the processor chip and standard

cache chips running at 1/2 the processor speed. The Pentium II had 7.5 million transistors, a 233 to 300MHz clock speed and a 209mm² die size.



1999: Intel Pentium III had 28 million transistors, a 500 to 733MHz clock speed and a 140mm² die size.

2001: The 130nm Pentium 4 incorporates 55 million transistors and yet still provides a die size shrink to 146.0 mm²

2003: Intel introduced a Pentium 4 (90 nm) process in 2003. The single poly silicon CMOS process has 7 layers of copper metal and requires an estimated 29 mask layers. The 90nm Pentium 4 has 125 million transistors and the die size shrinks to 112 mm²



2007: Intel's 45nm debuted in 2007 as the first high-k gate oxide with dual metal gates in production and named it as Intel Core 2 Duo . The 45nm process is a single poly silicon process with 9 copper layers and requires an estimated 36 mask layers. The 45nm Core 2 Duo die size is 105.78mm² and packs in 410 million transistors.

The history of electronics is really a vast area and it is not possible to present all details of the systematic history in this limited scope. Anyway electronics which started as a philosophy, then physics, then electrical engineering has now got its own identity and going to be even more diverse in the future. There is no doubt that the modern electronics as we see it today started from the birth of the vacuum diode of Sir Ambrose Fleming. On the centenary year, we remember this great man, his predecessors and successors. The changes of 20th century are mainly due to electronics, there is no doubt about it. All the systems today are almost electronic.

The future seems to be very bright. The new fields like the quantum communication and bioinformatics are going to be the leading areas of studies in the future which can take the human civilization to a great high.

This article is just one of the bird's eye view on the history of electronics. Here it has been tried to include almost all the great works and the persons behind them. It is great to remember the great minds on this occasion.

Department of Management Sciences

Industrial Visits:

An Industrial visit was organized on 12th November, 2010 to ALEAP (Association of Lady Entrepreneurs of Andhra Pradesh) located at Industrial Estate at Gajularamaram-Pragati Nagar, near JNTU-Hyderabad. All students of MBA II Year accompanied by 3 faculty members participated in the visit. The visit included Biscuit Factory, Cartoon Packaging, Box Manufacturing and Plastic Sticker units.

The second visit to M/s Khaitan Electricals Ltd, Balanagar Industrial Estate has taken place with the same students and faculty during November, 2010. During these visits, students could understand practically the operational processes of the various industries.

National Level Management Meet:

The department organized a national level management meet Shodhana-2K11 on 25th and 26th February 2011 inviting students of MBA from different Universities/ Colleges across the nation. This meet was directed towards searching for the Best Young Managers of tomorrow.

Workshop:

Students of MBA I and II year attended a workshop on Entrepreneurship Development Program (EDP) at NSIC (National Small scale Industries Corporation), Malkajgiri, Hyderabad on 29-03-2011.

They also visited equipment section of small scale industries. Mr. Mushtaq Ahmed chief of KPO Solutions Pvt.Ltd. was the key-speaker of the workshop.

Guests :

Mrs. Sunada and Mr. Jyothi Kumar of Indian Retail School gave a lecture on "Job opportunities in the Retail Sector" on 21-03-2011 at CFDM, NMREC. (For both I and II year MBA students)

Mr.C.S.Raju, Director of BELOBOG Health Wealth Pvt.Ltd.was invited to interact with students of MBA II year relating to the job opportunities in Risk Management, Insurance, Infra and Corporate Funding on 26thApril-2011.

Mr. Ram, Co-ordinator of VJIT Corporate Finishing School was invited to interact with students of MBA II year relating to the corporate soft-skill training trends in the market.

Mr. Santhosh Kumar Karwa, Managing Director of Talent Tree Performance Solutions Pvt.Ltd. Madhapur ,Hyderabad invited to interact with students of MBA II year with regard to the need for soft skills training for management students.

Mr. Srirama Athreya Mukunda, Regional Manager- ICICI Securities Ltd. and Ms.Hasna Haji, Branch Manager- ICICI Securities Ltd-Secunderabad,were invited to give a talk on Job Opportunities in Financial services sector in general and ICICI in particular.



News from Students:

Mr.Ravi Kiran presented a paper on Recruitment Challenges at National Level Management meet held at SNIST in the month of January, 2011 and secured 2nd place in the paper presentation event.

5 students of MBA-II year have participated in international seminar on "Comprehensive entrepreneurship" organized by ALEAP (Association of Lady Entrepreneurs of Andhra Pradesh) and State Government of A.P at Vizag from 4th to 6th December 2010.

11 students of MBA I year participated in "ADHYANA 2011" - National Level Management Meet organized by ICON Institute of management studies on 23-03-2011. Ms. Nayyara Sultana and Ms. Priyanka secured the 1st prize in the event of paper presentation while Mr. Srikar and Mr.Kumaraswamy secured 2nd prize in the event of business quiz.

News from Faculty:

Mr. V. V. Subbarao has submitted Ph.D thesis on "Management of Self-Help Groups in Select Districts of Andhra Pradesh - Warangal and Rangareddy" to Dr. Baba Saheb Ambedkar Marathwada University, Aurangabad.

Mr. Nukala Chandra Sekhar Reddy, Associate Professor, has been awarded M.Phil in Management on the topic "Internet Based Tourism Market Promotion in India: Case Studies of Web Initiatives in Kerala and Andhra Pradesh"

Mr. A. Raja Shekar, Associate Professor-HOD has attended "National Convention for Academics and Research" held at Mahindra Satyam Technology Center-Hyderabad, on December 16th 2010.

Mr. Hemant Kumar Shastry has qualified in FET -2010.

Mr. V.V. Subbarao, Associate Professor has presented a paper on "Role of self-help groups in Micro finance" at National seminar held at Bhavan's College-Sainikipuri-Hyderabad on 30th April-2011.

Faculty members of the Department have attended a workshop on Entrepreneurship Development Program (EDP) at NSIC (National Small scale Industries Corporations), Malkajgiri, Hyderabad on 29-03-2011. They also visited equipment section of small scale industries.

Department of Computer Applications

A seminar on "free software foundation" was conducted under the auspices "SWETCHA" on 7th Dec 2010. Dr B.PadmajaRani of JNTUH, Prof Y.Vijayalatha of GRIET and Prof A.Kanakadurga of Stanley college were the distinguished speakers

Remedial classes were conducted for II yr MCA students and special examination was conducted for weak students to improve their performance.

Three seminars were organized for III yr MCA students on projects and they were exposed to give seminar talk using power point presentation.

Project seminars were completed before scheduled date of 30-07-2011 and the list of proposed external examiners was submitted in time to JNTUH.

Mrs B.K.Madhavi was sponsored to attend the "National convention of academics and research "NCAR-2010 from 16th to 18th Dec 2010.

Mr E.RadhaKrishna participated in two day workshop on "Grid Computing" organized by Vasavi College of Engineering on 30th Sept 2010 and 1st Oct 2010.

Prof G.V.Anjaneyulu attended forty second midterm symposium on "Telecom Paradigm-Indian Scenario" conducted by IETE Bangalore from 15th to 17th April 2011.

Prof G.V.Anjaneyulu attended a symposium on "Making Telecom and IT green -Challenges and road ahead"organized by IETE New Delhi from 25th to 26th Sept 2010.

All the staff members have attended the faculty development program organized by CFDM in the college in May and June 2011.

MCA Department participated in "Industry - Institution Interaction Meet" organized by the college on 3rd Dec 2010.

A technical festival "MEDHAS 11" was conducted by MCA/IT/CSE departments on 25th and 26th Feb 2011 and Prof G.V.Anjaneyulu was coordinator of the festival.

A two day workshop on ethical hacking was conducted on 27th and 28th Feb 2011 for the benefit of MCA/CSE/IT students.

Four of the staff members E.Radhakrishna, T.ShobhanGouud, K.Raghuvardhan and V.Mohan have enrolled for ALCCS program of IETE which is recognized as equivalent to M.Tech by JNTU.

Mrs C.M.Sheela Rani and Mrs K.Sravanthi have registered as candidates for Ph.D program.

Research paper titled "Web content mining tools; A comparative study" was published by Mrs V.BharaniPriya in the journal of Information Technology and Knowledge Management in January 2011 issue.

Department of Mechanical Engineering

Dr. V. Gopala Krishna, Scientist 'F' of DMRL had delivered a technical talk on 'Aerospace Materials and their superiority' on 17.03.2011.

Mr. Satish of M/S Kalwa Engineers had delivered a talk on 'Non-destructive testing' on 18.03.2011 at 2.00 PM.

Mr. Anoop Kumar and Mr. K. Harikrishna were deputed for a two day workshop on Tribology: Basics and Applications' held at Vignan Institute of Technology during 9-10 Dec.2011

Mr. T.V.S.M.R.Bhushan and Mr. P. Ramnath Reddy were deputed to attend a 2-WEEK ISTE WORKSHOP 'on Thermodynamics in Mechanical Engineering' Under the National Mission on Education through ICT (MHRD, Govt. of India) Organized By IIT-Bombay at JNTU-Hyderabad Campus during June 14th, 2011 to June 24th, 2011.

Mr. T.V.S.M.R.Bhushan submitted a research paper entitled "CFD Simulation for Heat Transfer enhancement with compact surfaces in Electronics cooling (acceptance code - R83)" to International Conference on Design and Advances in Mechanical Engineering organized by SKP Engineering college, Tiruvannamalai, Tamilnadu

Mr. Anoop kumar published a technical paper Titled "Experimental Evaluation of Formability of Sheet Metals Under PTFE Lubricated Conditions" in Journal of Institute of Engineers - Kolkata (Vol. 92, April 2011, pp. 29-33).

Department of Electronics and Communications Engineering

The Department has conducted a 4 day workshop on MATLAB-7 in the month of July 2010 for the B.Tech students of the Department.

A two day workshop was conducted on "ROBOTICS - DESIGN & DEVELOPMENT" for students as a part of CIHAN-2011- a National Tech Fest.

Ms. K.Vani, Mr.M.Srinivasalu, Mr S.Hari Babu, Ms.T.Rajini have attended One day work shop on "MATLAB" at Taj Deccan Hyd conducted by Math Works in Sept 2010

Mrs. T. Rajini, Assoc.Prof has attended 4 day workshop on "Automatic speech recognition"at - NERTU, Osmania University from 6th to 9th Sept 2010.

The final year students and staff visited Satellite Tracking Center NRSCat Shadnagar on 26th & 28th August 2010.

Expert lecture on "Renewable energy -solar power" was delivered by Mr.Harsha Yadav-Cofounder of Expert Carbon at NMREC on 25th Sept 2010 .

Mr. Mahesh Kumar, Asst. Prof. has attended an eight day workshop on "VLSI and Design for testability" at IIIT Hyderabad in the month of June 2011.

M.Tech students have attended a 3 day workshop on " Analog and Digital Mixed Signal Design Using CADENCE EDA TOOLS" during 27th -29th June 2011 at ACE Engg College,Ghatksar.

Prof. I. Sudhakar has attended a 2G-3G workshop at CVR college of Engg in the month of Dec'2010.

Ms. G. Lavanya, Asst. Prof. has attended a work shop on "Trends in VLSI Design & Mentor Graphics" on 12th May 2011 at Gurunanak Engg College.

Mr. P. Srikanth, Asst. Prof. and Mr.M..Sreenivasulu, Asst. Prof. have presented a paper on (ICMOT-2010) on "Secure Arithmetic Coding for Data Communications"at Swarnadra Engg College, Nasrapur during. Jan-22-23 ,2010

Mr. P. Srikanth, and Mr. M. Sreenivasulu have attended a Inter national Conf. and Presented a paper on "Parametric Studies for Folded Beam suspension of MEMS gyroscope", on MEMS & Optoelectronics technologies during July-,2010.

Mr. Y. Srinivas attended a workshop on "Microwaves, Antennas & Propagation for wireless communication." at PICT Pune in June-2010.

Mrs. K. Vani Attended 1 day workshop at JNTU, Hyderabad, on Micro controllers in May 2011.

Mr.P. Srikanth and Mr. M.Sreenivasulu presented a paper in an International Conference on "Parametric studies for tuning of MEMS gyroscope" in April-2010..

About 20 students presented papers in the National level Student paper contests conducted by various engineering colleges and brought laurels to the Department by winning prizes.

Mrs. S. Aruna, Asst.Prof obtained her Masters Degree from JNTU-A in Dec-2010 in "Digital Systems and Computer Electronics" discipline.

Mrs. Gracemani Lab assistant is in the final year of B.Tech (part time) course at JNTUH-college of Engg.

Mr. N. Ramesh has obtained his masteres degree in the discipline of "Digital system" from College of Engg- Osmania University.

Mr. Y. Srinivas and Mr.S.Vasukrishna have passed the Pre-PhD examinations conducted by JNTU-H leading to PhD degree.

Mrs.T.Rajini and Mr.M.Sreenivasulu have registered for PhD at JNTUH.

Mr.P.Srikanth ,Ms.G.Lavanya and Mrs.S.Aruna-Asst.Professors have passed the FACULTY EIGIBILITY TEST-FET conducted by JNTUH

Mrs.T.Rajini ,Mr.Y.Srinivas and Mr.B.Ravinder were ratified as Associate Professors by JNTUH.

Group captian I.Sudhakar joined as Professor in the Dept Earlier he has worked in Indian Air Force.

Department of Information Technology

To cater the needs of IT industry, the department has established association with IT major HCL and offered high-end training courses for students in .Net and Basic Networking. Students from CSE, IT and ECE actively participated and got benefitted from these courses.

Industry-Institute Research Meet:

The department actively participated in the Industry-Institute Research Meet organized by the Research Centre, NMREC by inviting representatives from NeoApps Technologies, HCL and Netmetric Solutions from Hyderabad to air their views on "Industry Expectations".

Events:

Inception '10, an Intra College Event organized by the Final Year IT students in the Month of August to bring outstanding talent in sports and academics. This was the first ever Techno Sports Event

organized by the department. This event was well received by students from all the branches and was it a huge success.

Medhas'10, a National Level Technical Symposium was organized by IT,CSE and MCA Departments. This event induded programs such as paper presentations, poster presentations, and technical quiz to unleash the hidden talents of students from Computer Science Engineering and Information Technology fields. Students from various colleges participated in this event to exhibit their knowledge and skills.

In-House Projects:

Apart from academic projects, our students were involved in real time projects. One such project was "Online Student Feedback System" designed by our faculty and developed by P.Guru Prateek (2011, passout from the department) and his team. The project is now successfully being used by the college to take feedback from students.

Faculty Development Program:

Under the Center for faculty development & Management in the college, during summer vacation faculty members have undergone a training to improve basic teaching skills, class room management, effective explanation in the class, Innovative teaching strategies, Mentoring skills, and other teaching related methods. This was well received by faculty members and started implementing these strategies in the class rooms.

Results:

The department is consistently maintaining high pass percentage. In the academic year 2009-2010, the pass percentage was 96.1% and now in the academic year 2010-2011, the pass percentage is 96.4%.

Sponsors:

The department received 100 CDs of Open Solaris Operating System from Sun Microsystems, USA and 100 Souvenir, from Oracle Corporation, USA as a complement for running Open Source University Meet Up Society successfully in the college. And also, the department received ONE Lakh worth gift vouchers from Swift Education Consultants Pvt Ltd,Hyderabad, gift vouchers from Princeton Review, Hyderabad and from NIIT, Hyderabad for Medhas'11.

Professional Societies - activities:

Computer Society of India (CSI): Students from II and III Year joined CSI and formed NMREC CSI student chapter. President and Vice-President of CSI Hyderabad Chapter, attended the launching ceremony of NMREC CSI Chapter and stressed out the importance of CSI and its role in the coming years.

Open Source University Meet Up Society (OSUM):

Student representative of OSUM, organized series of seminars related to open source technologies for society members (200) with support from SUN Microsystems, USA. The society completed its second term successfully after it was launched in the academic year 2009-2010.



Workshops:

To update the skills needed for doing research/teaching in the field of computer science, faculty members were sponsored for participating in the workshops/conferences organized by reputed Institutions/Universities.

Ms. E. Madhavi was sponsored to attend a workshop on the "Data mining & Data ware housing" at IIIT, Hyderabad from 2nd to 7th July, 2011.

Mrs. G. Tirumaleswari, was sponsored to attend a workshop on "Data Mining and its applications" GNITS at Hyderabad.

Mr. A. Vijay Kumar, was sponsored to attend the Advanced Network Programming at VBIT, Hyderabad.

Mr. K. C. Arun, was sponsored to attend the NCAR 2010 - Two day conference related to open source Technologies held at Mahindra Satyam from 16th to 18th December 2010.

Higher Studies:

Some of our students are pursuing higher studies in prestigious Universities & institutes like North Carolina University, USA, Kent State University, USA,

University of Houston, USA, North West Missouri State University, USA, University of North Texas, Dallas, USA, Institute of Public Enterprise, Hyderabad etc.

Students Participation:

Some of our students actively participated in National Level Symposiums held in colleges across the state and won prizes

Department of Electrical and Electronics Engineering

The department has conducted Yatna 2K11 a national level technical fest with events like paper presentations, poster presentations, project exhibition, best out of waste, and many such knowledge gaining events.

Mr. M. Serabanda, Asst. Professor, attended a workshop on SCADA & its applications at MVSR Engineering college, a workshop on control & optimization at SV IT, workshop on power system Automation through SCADA & GIS at Aurora Engineering college, and workshop on design of embedded systems on power systems at SNIST.

Mr. B. Lakshmana Naik, Asst. Professor, presented a paper titled "Reactive power control in long transmission lines" at an international conference held at Dr. M. G. R. University, Chennai.

Many of our students attended national level events and have bagged prizes in those events.

K. Praveen & Reena Narmada Secured 1st prize for their paper presentation on LEDs.

S. Divya Sri & Ganes secured 1st prize for their model elective Motor & Generator

K. Praveen presented a model of transmission & Distribution lines and bagged the first prize.

A working model Robo Car was developed by S.Divya Sri and Akif.

Department of Computer Science Engineering

Mr. P.V.S. SIVA PRASAD has attended a three day ISTE National Workshop on SIMULATION FOR WIRELESS NETWORKS (NS2, GLOMOSIM) in Vivekananda Institute of Technology, Karimnagar and Science from 12th August 2010 to 14th August 2010.

Mr. G. Vikram Chandra has attended a 2 day workshop on Research Trends in Computer Science in

Muffakham Jah College of Engineering & Technology, Hyderabad from 4th March 2011 to 5th March 2011.

Mr. G. Vikram Chandra has attended a 6 day workshop on Data Mining and Data Warehousing) in EnhanceEdu at IIIT- Hyderabad, from July 1st to 6th July 2011.

Ms. G.Srujana Bharathi has attended a 6 day workshop on Data Mining and Data Warehousing in EnhanceEdu at IIT-Hyderabad, from July 1st to 6th July 2011

Ms. P. Keerthi has attended a 3 day workshop on Data Mining and its applications in G.NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE, Hyderabad, from 29th June to 1st July 2011 and 5 day workshop on Principles of Information Security in EnhanceEdu at IIT-Hyderabad, from June 20th to June 24th 2011.

Mrs. G. Meenakshi has attended a 3 day workshop on Data Mining & its Applications in G NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE, Hyderabad, from 29th June to 1st July 2011.

CSI (Computer Society of India) Student Branch was inaugurated in our college on 11th Feb 2011 by Mr.Raju Kanchibhotla(Chairman of CSI Hyderabad),Mr.I.L.Narasimha rao(vice Chairman of CSI Hyderabad) and Principal of NMREC. Totally 111 students joined in CSI from CSE, IT and MCA departments. Mr. Maruthi, Asst. Professor, is the faculty coordinator for the CSI student branch.

Naveen from III CSE-B was elected as the President, Sowmya from III CSE-B as Vice President, Pavani from III CSE-B as Secretary, Surya from III IT as joint Secretary,Shravya from II CSE-A as Treasurer, and Harika from III CSE-B as the Joint Treasurer of the CSI student branch.

S.Goutham of 4th yr CSE presented a paper on the topic Environmental Sciences in KV College of Engineering

V. Shravya of 4th yr CSE presented a paper on the topic Modern Operating Systems in TKR Engineering College

N.Sandeep of 4th yr CSE presented a paper on the topic Silicon Photonics in Geetham Institute of Technology

Divya and Ramya of 4th yr CSE presented Papers in SNIST and JNTUH

G.Shravya and K.Vinay Teja of 2nd yr CSE presented a paper on the topic Nano Technology at NMREC in the event MEDHAS'11

C.Manvitha Sai and Raghu Ram of 2nd yr CSE presented Working model Experiment – Diamond Security Guard at NMREC in the event MEDHAS'11

Pranathi and Sravanthi of 2nd yr CSE presented a Poster on the topic "Nano Technology" at NMREC in the event MEDHAS'11

Prudhvi Raj and Venkat Ramana of 2nd yr CSE presented a paper on the topic Nano Technology in NMREC at the event MEDHAS'11

Placement Cell

NMREC has been trying to improve the window of opportunities to its students through campus placements. We have been in constant interaction with many of the corporates and the number of students being placed from our college have been increasing year after year. The year 2010-11 witnessed many students getting placed in reputed organization like HYUNDAI, Atlas-copco, HCL, IBM, Mahindra Satyam, Syntel, Bosch, ADP, InfoTech, GGK Technologies, Hackett Group, Infosys etc. through on campus and off campus interviews.

Students of final year CSE, IT, MCA had the opportunity to visit Infosys campus through the Infosys campus connect programme where our students had the privilege of understanding the selection process and the work culture of corporate institutions

In order to ensure maximum placement we had also organized a placement training programme for the interested students of our college which was well attended and had helped in improving placements.

This year in order to augment more number of placements we are focusing on improving the technical skills of the students with the assistance the concerned departmental faculties, and also trying to improve their English and Numerical ability skills. Our Humanities & Mathematics departments are putting in their efforts.

We are confident that 2011-12 will see more number of organizations visiting our college to provide more opportunities for our students.

Sports form a vital part in human personality development. NMREC has inculcated sports into its regular routine and has successfully proved the overall development of its students. Professional courses these days are heavily loaded with a lot of academic content. As the saying goes 'All work and no play makes Jack a dull boy', students need to be provided with the extra nourishment required through sports. This aspect is well received by the college and has established state-of-the-art sports facilities, and a strong physical education department for training.

The college encourages the students in taking part in most of the inter college, interuniversity tournaments.

NMREC students have participated in various sports events and won accolades for the college.

NMREC students participated in the "National level Inter-Engineering Collegiate Tournament" conducted by SNIST, Ghatkesr, R.R Dist. from 7 to 14 August. The participants got prizes in Chess (W), Carom Singles (W), Carom Doubles (W), Carom Doubles (M) and Throw Ball Team (W).

NMREC students participated in the "XXV India Open Sports Meet" organized by BITS, Pilani, Rajasthan from 15 to 19 September 2010. The participants got prizes in Long jump, 4 x 100m Relay, 100 m Sprint and 400 m Run.

NMREC students from IT and ECE represented JNTUH team in ALL INDIA INTER UNIVERSITY TOURNAMENT from 16 December 2010 to 20 February 2011. The students participated in Hockey, Handball (M), Handball (W), Kabaddi (W) and Table Tennis (W).



NMREC students from CSE, IT and ECE departments represented AP Tennis Volleyball Senior and Junior teams in 12 NH Tennis Volleyball championship held at Dholpur, Rajasthan from 25 to 27 December 2010.

JNTUH D-Zone Inter-Collegiate Tournament for men and women was organized at NMREC from 18 to 20 January 2011. From the zone twenty five colleges registered for various events. The Tournament was inaugurated by the Honorable Secretary of the College Sri Nalla Malla Reddy Garu. NMREC won Volleyball (M), Volleyball (W), Throw Ball (W) Table Tennis (M) and Overall Championship.



Adroit a Cultural and Sports Fest was organized by the CSE department from 7 to 14 February 2011. Students from all the branches participated in the event.

JNTUH D-Zone Inter collegiate cricket tournament for men and women will be organized at NMREC from 17 to 22 February 2011.

National Sports Day in memory of the greatest player of the National Dhyani Chand has been celebrated in the college on August 29th 2011.

Faculty Volleyball Team of the college won the state level faculty Volleyball tournament held by Nalla Narasimha Reddy Educational Society on the occasion of teacher's day.



FOR THE FISHERS OOOOOOOOOOP'S FRESHERS

Stepped in the college? Caution!!! Everyone is watching you, watch your foot!!! Step carefully! Yes you will be going all around but you will be monitored, got scared? am Mr. senior Hey don't concentrate on my freaking alarms. They are chunky bits of fun. Well, first of all Warm welcome to new independent world where you alone are the ruler of your destiny. No restrictions no barriers! Just tighten your seat belt for a roller coaster ride of your life which will never come back to your life after these four years

I am here to guide through the tactics of 1st year to which you will be old after a year as I am now. I will explain you all about the way you should be in your first academic year and how you can get addicted to this new world. Before starting about what you would do in the academic year, let me have a test for my experience! All of u nervously enter into the college with mind full of crazy thoughts. You will find your buddies and patch up with a group and you will get adjusted to college environment, one issue you can just forget about after entering our college is Ragging as ragging is strictly prohibited in our college. So get relaxed don't be nervous, Hey! Do you have a mobile? If not every one of you are going to buy a mobile as now you are B.Tech students. But note that mobiles are strictly prohibited in college premises.

Let me enter your imaginative world of B.Tech and let all of us have a imaginative tour of your college life, am your guide to 1st year. Let's start! Here, we have on the hole sorry not hole its whole eleven subjects including labs. Yes it is E.L.E.V.E.N and they include four labs and 7 subjects to be learnt!

In subjective you have 8 chapters each subject so $7 \times 8 = 56$ chapters and labs added to it. Got scared? Don't worry! It's not that hard task to do it. You can do it! Hey have you watched happy days movie? Here the happy remains same but days are less so I suggest u to be up to date with records, observations lectures given in class. That would be surely helpful. As soon as we say about records and observations you will get a good idea of taking help of ur mom, sister & friends. So to all of my intelligent juniors it won't work in B.Tech. It's better you write on your own. Here in college we have a dignified uniform. Well, that's professional too and you need to be in that if you are interested to enter the college. So called rules like to be in uniform and prohibition of electronic gadgets is mandatory.

Your class will be divided into sections based up on your names and first 60 will be placed in A section and remaining in B section. After that you will be given a roll no. It would be of 11B61A0*** kind and after that you will be issued ID cards without which you are not permitted to enter the campus. For any mischievous act done by you in the class or in lab and activities such as bunking a class if you are not caught you will enjoy but if caught your ID card will be taken off and without it you cannot enter college. So you better leave such ideas out of the gate.

Now let's have a view of how your examinations will go on Mid exams will he held after 2 months of your date of entry to college. A sequence of 3 mid exams are scheduled. They will he held with a tiny gap of 2 months and they have 25 marks which will be added to your final result. In any manner you cannot use ctrl+c and ctrl+v and so study well!

Talking about the a techfest, it's a damn dump of fun, you can hang on to any competetions held in any branches. They include ppts, games, projects, robotics etc. Hey any one of you are interested in sports? If so, you are at right place. Our college is the best place for sports. You need to meet all the sports persons in our college and I am sure you can upcome in your sports life too.

That's all from me....signing off.....

-Vinay Kairany, CSE, II (A)

Time – A key ingredient to Life....!!!

There is a bank that credits your account each morning with \$86, 400. Every evening deletes whatever part of the balance you fail to use during the day, what would you do? Draw out ALL of IT, of course!!!

Each of us has such a bank and that is TIME every morning, it credits you with 86,400 seconds every night it writes off, as lost, whatever of this you have failed to invest it carries over no balance, it allows no overdraft.

Each day it opens a new account for you. Each night it burns the remains of the day. If you fail to use the day's deposits, the loss is yours.

There is no going back. There is no drawing the "tomorrow". You must live in the present on today's deposits. Invest it so as to get from it the utmost in health, happiness and success! The clock is running. Make the most of today. Beneath every dark cloud to hide, is a shining bright ray.

To realize the value of "ONE YEAR" ask a student who failed a grade

To realize the value of "ONE MONTH" ask a mother who gave birth to a premature baby

To realize the value of "ONE WEEK" ask the editor of a weekly newspaper

To realize the value of "ONE HOUR" ask the people who are waiting to meet

To realize the value of "ONE MINUTE" ask a person who just missed a train

To realize the value of "ONE SECOND" ask a person who just avoided an accident

To realize the value of "ONE MILLI SECOND" ask the person who won a silver medal in the Olympics

Treasure every moment that you have! And treasure it more because you shared it with someone special, special enough to spend your time "life will make you to bend, to stoop, to crawl but the point is how fast you stand up and challenge it again!" and remember that time waits for no one.

Yesterday is history

Tomorrow is mystery

Today is a gift

That's why it's called the Present!!!



D. Mona, CSE-II (A)

Political Rampage

Have you ever been thinking of what country you are living and what kind of politicians we have? Its not degrading anyone (or) showing anyone down:

You haven't been paying attention to the news lately; we had celebrated on 66th Independence day. Our fire arm freedoms are not negotiable at the drawn of history India started on her mending guest. She has never lost sight of that guest for forgotten the ideals which gave her strength. We end today " a period of ill fortune" and "India discovers herself again".

Political and bureaucratic corruption in India are Major concerns parliament members including cabinet ministers and Chief ministers are facing criminal charges many biggest scandals have involved such as 2G spectrum, Adassh housing society scam, illegal mining in Karnataka, why this is happening in our Country? People are really getting into rioting. Its all the rage, and some of you love it. Some of you reading this might be thinking....

We have tendency to elect the Right person who sums like the antitheses of immediate predecessors.

Today Anna Hazare is the face of India's fight against corruption he had started a hunger strike to enact pressure on the Indian government to enact against corruption he has taken that fight to the considers of power and challenged the government at the highest level to implement the Janlokpai bill we as a learner, the common man, and well known personalities alike, are supporting him in the hundreds swelling to thousands and politicians are there only for exploiting the failing masses for themselves. Due to these, inflation, scams, Indian is becoming like "A winged bird flaps her wings but remains rooted to the ground".

Perhaps the question is not whether we have the ability to do it, but rather will be to take on the challenge!

- E. Dikshith, CSE-II (A)



Corruption

The need to define the word corruption has completely faded away. Every citizen is well aware of the immoral, illicit and illegible act of making unworthy things to be put at work with a flash of green papers passing from hand to hand. This has already lead to the accumulation of black money (as everyone understands it) in amounts that are quite uncountable. There are thousands protesting against it, but when it comes to action, they need to remember that all it began at the very initiative of their own hands. The day it happens, there will be no more need for any Jan Lokpal bills to fight for, but the law simply will able to take care of itself.

A. Bipin Chandra, Mechanical-II

Right Decision - Right Life

Generally at kindergarten level, we depend on elders and the all the decisions are taken by them. But, when we grow, nature show us all the paths in life(either right or wrong) and it is our responsibility to take a right decision.

Did u ever think of your first own decision taken in your life???

The answer probably be "NO", because it really happens unknowingly. And the time when you started to take the right decision, it continues constantly to take the decisions in your life(sometimes the decision be right or sometimes wrong). It does not matter, but what it matters is you have taken your own decision without any support. That must be your first success. Most of your decisions may go wrong initially, but when you start experience your life - it become very easy to take decision(absolutely right decisions).



But, most of the students struggle in life because of the forcible decision by their parents or others. The most horror or uncomfortable thing for a student is to do a course, which he doesn't like and the decision taken by others(probably his parents). I remind you that Engineering and medical are not only the two fields in the world. Great careers await in several fields like *Media, Journalism, Biotechnology, Consultancy, Law, Web, Environment, Software development* etc...

So, I suggest all the students to take their own decisions(right decisions) in life(in any aspect of your life). But "**BE CAREFUL WHILE TAKING DECISIONS**".

LEARNER-CENTRIC TEACHING

The college focuses on learner centric teaching in the classes. A learner-centric approach is all about focusing on what the student is learning, how and under what conditions the student is learning, whether the student is retaining and applying the learning, and how current learning positions the student for future learning. Such an environment facilitates a high quality learning experience.

Learner centric teaching helps in many aspects of student development. Success in exams is one of them. The minimum requirements of any teaching are fulfilled and also an increased number of learners tend to achieve excellence.

One of the learner-centric approach is to use learning outcomes or learner-centric objectives for each topic being taught, and rubrics for the same

Learning outcomes, and also a path to achieve these outcomes would be given to the learner before hand. The learner is initially given an idea of what he would be able to do with the knowledge to be gained. This results in a focused learning and also the learner has a clear idea of the application of the knowledge gained. For example, "the student will be able to solve the given problem – after completion of this topic", "after completion of this topic the student should be able to explain the procedure for ". This focus improves the teaching and the learning process as a whole.

Assessment of an outcome is measured by a tool called rubric. This tool enables the learner to know where they stand in their path to excellence. For example, when explaining a concept, the student:

- gives memorized answer (which is NOT ACCEPTABLE)
- explains in his own words (that is JUST ENOUGH or SATISFACTORY)
- illustrates with own examples (which is GOOD)
- is able to defend further questions (which is OUTSTANDING/EXCELLENT)

This assessment strategy is given for every outcome listed. This facilitates the student in knowing where exactly he/she stands and which is the path he/she needs to take to achieve excellence.

This approach of the students know about the learning outcomes would definitely increase the interest levels in students and also the learning shall be focused, and hence effective.

Dr. Divya Nalla, IT Dept.

Learner centric teaching makes the class interesting by engaging every type of learner in the class. Active learning is one of the methods followed to achieve this.

The main motive behind adopting a learner centric approach to teaching is to enable students to understand

that learning is something not related only to the exams but much beyond that. The knowledge gained must be such that it can be applied, and can be used to gain further knowledge.

In my view, in learner-centric teaching, students are no longer passive receivers of knowledge, Instead they are active participants in learning and co-constructors of knowledge. The instructor or the teacher has to act as mentor and advisor to encourage student's participation in active learning. Interactions between teacher/instructor and students facilitate the learning process through discovery ,inquiry and problem solving.

V.V Subba Rao, Assoc.Prof. MBA Dept.

This approach grabs the interest of the students and they develop enthusiasm and interest over the subject. This helps us to retain the subject in the memory and connect to the current topic. To keep the class attentive and active, questions are being asked to students on current topic. This is to know the presence of mind of every student which further leads to subject discussions and collaborative learning.

K.Sindhu, K.Praveen, MCA III yr

Surprise tests, quizzes, open book tests helps us to rely on our knowledge without following the old tradition of mugging up. This also helps us to do the regular study work so as to update our knowledge. Learner centric approach not only helps us to gain marks but also improves our subject knowledge.

S.Shiva Jyothi, Anis Basha ,MCA III yr

Teaching a subject from student's perspective by making a classroom interactive evokes new ideas, helping them to understand and gain in-depth knowledge. Learner centric teaching yields concept oriented study by the students from their past and present experiences ,attitudes, understanding and learning methodologies.

Pallavi, Asst.Prof, Mech Dept.

This is beneficial to students to improve interaction and helps in developing interests towards subject and involvement during the lecture session.

G.Meenakshi, Asst. Prof, Dept of CSE.

This approach helps the student understand his current learning trend and also enables him/her for future learning. In particular, the learner-centric teaching helps students differentiate between learning and memorizing eventually taking them to higher order of thinking thereby testing their ability of applying the concepts.

S.Vasu Krishna, Assoc. Prof., Dept. of ECE

Learner-centric teaching is designed in a professional manner to instigate interest in learning topics thereby meeting the objectives of the teachers.

MVDS Krishnamurthy, Asst. Prof ,CSE

ALUMNI SPEAKS

My passion to see the world was fostered at Nalla Malla Reddy Engineering College. The talks with my professor made me realize that everything is connected. To be a part of the college that endeavors in planting the seeds that will translate into a more peaceful environment is something that NMRian will cherish.

V Shantan, ME
Design Engineer, Hyundai

There is a great transition from College to the Corporate World, but the kind of discipline at NMREC towards the punctuality, regularity and promptness for the given task and even the dress code helped us to be a professional, developing a good affiliation at the work place and to build the firm foundation with a great confidence for a career. The special campus life at NMREC made us to easily get adapted to the professional work culture.

Tejaswini Gummadavelli, ECE
Programmer- Testing Competency,
Alliance Global Services

I am proud to be an NMRian. I don't know what the life was and how to live a life in a systematic and dignified way, then the college i.e. "Nalla Malla Reddy engineering college" opened the new doors to my life where college showed me many routes to choose but the correct path was guided by my lecturers where each and every moment they used to guide us and tell every time the way to success.

In terms, college chairman helped in every aspect not only in studies but also in sports he used to show a goal to us and used to tell what and why goals are to be achieved and how to achieve them. My college made me stand on my own legs and my heartfelt thanks to my chairman and to all my professors to make me stand and face the brightening world, achieve more goals and success in my life.

Naveen Jaiswal Singh.R, ME
Design Engineer, Hyundai

NMREC is well known for its rules and regulations, where, by following them one can succeed in academics as well as disciplinary activities.

B.Aditya Prapul Teja, IT

I have learnt many things related to human tendencies, attitudes and other social relations, the experiences, which would help me to have success life long. According to me my college life is mainly my friends, faculty and people I have met during my four years.

B.Sai Chaitanya, CSE

Starting of my college days I felt nervous because I have come from Telugu medium but it was my friends who encouraged and supported me. I am happy as I learnt under the two great persons Mr. G.V.RAO and Dr P.MOHANDAS who are equal to scientists and retired from DRDL. Each and every faculty and friends and their support, advice during my engineering days which further helped me to learn and apply in building my career. We thank to our college chairperson who gave lot of encouragement at each and every moment and providing the basic things in college, especially sports which we used to enjoy. We conducted some events like Addicta, Stalls and Sambhavath. I feel great and thankful to the institution and it's my privilege to speak about my college.

R Srinivas, ME
Design Engineer, Infotech Enterprises

NMREC is having good infrastructure and sports activities.

S.Anil Kumar, IT

Without education, there is no independence because you have cornered yourself into a hole, and will never be able to do what you want to do. Nalla Malla Reddy Engineering College exceeds expectations... Its passion to Learning, Service and Involvement, Creativity and Innovation, Academic Excellence, Dignity and Respect, Integrity makes it a standout performer.

T V R Apparao, ME
Trainee Engineer, ATLAS COPCO

It is their path of reality which was laid for us. I substantiate my claim of success to my professors.

N T Rajender Prasad, ME
Design Engineer, Hyundai (R&D)

Our college has good infrastructure, indoor and outdoor sports facilities and one of the most important aspects is discipline along with good lab facilities and well experienced staff.

Navdeep Singh Tonk

I am happy to be a part of one of the most renowned engineering colleges in Hyderabad. I am very much satisfied with staff and laboratories provided by college. The way of teaching and learning is tremendous where the subjects were taught practically making the things learn easily. The rules and regulations learnt in the college will be helpful to us in personal as well as professional life. Joining this college I made good friends and I hope and wish the college will encourage the innovative ideas of students by facilitating necessary things and seeking the voices of staff and students for better education and making the college to be an icon. Many more industrial visits would enhance the career of the students to probe confidently into this competitive world.

Last but not the least, I thank all my teachers for being cooperative in completion of our academics and project successfully.

Kartik Naragoni, ME

NMREC has good faculty and the entire infrastructure equipped with lab facilities.

Vikram, ECE

NMREC made us professionals and also fit for Industry.

S.Srikant, CSE

It's my great pleasure and privilege to give a review about the institution. I would like to share two important aspects of the institution:

- ❖ Discipline
- ❖ Proper dressing and time maintenance.

Being a part of an international company (J.V. Roulments International Pvt. Ltd) that demands a high degree of discipline and professionalism; Nalla Malla Reddy Engineering College has gifted it to me and I stand successful.

It is not only the knowledge or high marks that is needed but also the discipline and the personal communication that is sought after by the company.

Rentu Philipose, ME

J.V. Roulments International Pvt. Ltd.

Note : Alumni may register their details (name, batch & current status) by mailing to alumni@nmrec.edu.in

NOTICE BOARD

- ☆ All the final years must select their final project and complete the analysis and design part before the second semester begins.
- ☆ First year students are informed to collect lab manuals and handbook from their Head of the department.
- ☆ Placement training for JKC Registered Students started in September 2011. Training for Non JKC students shall begin in October 2011.
- ☆ Students interested in placements may contact the placement officer for training & placement interviews.

ADHYAAPAN - A TEACHER'S MEET

A unique learning and fun event for teachers

As we all know education industry is booming today with a number of schools and colleges coming up. However, most of these institutions are facing a challenge in having good quality teachers. Many coaching centres and digital material have come up to fill the gap. However, most students are resorting to memorizing or rote learning instead of being able to think on their own. Education is measured by certificates and ranks. As a result, by the time they graduate they are termed 'unemployable'.

Centre for Faculty Development and Management (CFDM) at Nalla Malla Reddy Engineering College (NMREC) have been working together with Teacher's Academy to motivate teachers, give them teaching and mentoring skills, help in their professional development and create a pride in them for being teachers.

This mela - Adhyaapan, is another step in creating a day of fun and learning for teachers. Apart from lectures on skills, there was a wonderful display of posters and models. This display was organized into four corners, and at many points teachers contributed their ideas and inputs. Almost 80 teachers from

Nalla Malla Reddy Engineering College and Junior College, Sree Datta Group of Institutions, Ace College of Engineering, Vignan Institute of Technology and Science, St Martin's Engineering College, Jahnvi Degree and PG College, KGR College of Engineering and Technology, Chaitanya Bharathi Institute of Technology, Vignan Bharathi Institute of Technology, Princeton College of Engineering and Technology, Scient Institute of Technology, Bhoj Reddy Women's Engineering College, Balaji Institute of Technology, TKR Engineering college, RVR Institute of Engineering and Technology and Rajamahendra College of Engineering.

Edu-Corner: The evolution of education from ancient times, current challenges and opportunities. Trends in teaching today, statistics of education scenario and teachers were asked if Gurukul system was possible today.

Guru-Shishya Corner: The relationship between student and teacher has changed over time due to social and cultural changes. This corner brought out the attitude a teacher must possess in order to become a role model, a friend and counselor. Visitors could add their own points too.

Inspiring Teacher Corner: This corner showcased the stories of great teachers. It also enumerated 20 reasons to become a teacher, the characteristics of a good teacher and teaching self-profile. Visitors could add their own inputs too.

Book Exhibition: Books were displayed by Cambridge University Press and Book Selection Center. Two contests were organized around the books - to recall maximum number of book titles with author names in a minute and to give the gist of a book in one minute.

The display was followed by idea contest - where teachers presented their unique solutions to social or educational problems, and won prizes. The fun portion was events with competitions with cash prizes.

Overall, the day was full of activities that motivated the teachers and also gave them the big picture. It also showed how information can be presented in interesting ways instead of the traditional lecture.

Parallel workshops were conducted on IT Resources for teachers, Counseling and Mentoring, Working for PhD by Uma Garimella, Shankarson Roy and Vikram.



COMING UP...



Industry Institute Research Meet

Inviting Industry to initiate research ties
among the institute and industry

Project Contest

- Interdisciplinary Projects
- Open for all students of NMREC
- Group of maximum 3 students from any branch

All the projects shall be exhibited
in the project expo at NMREC
in the third week of December 2011.

Prizes for the Winners :
Laptops, Notebooks, etc.

