

REFLECTION NEWSLETTER

OF
SHRI RAMDEOBABA COLLEGE OF ENGINEERING
AND MANAGEMENT

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✧ Letter from the Editor ✧

Dear Readers,

We bring to you the first issue of 2014 which reflects an extremely active quarter where various departments of the College have undertaken activities from January to March 2014. These included publications, conference presentations, Ph.D submissions, workshops, MOUs, sports and many extra-curricular achievements.

The highlight of the quarter was the international conference on Electronic Systems, Signal Processing and Computing Technologies (ICESC-2014) organized by RCOEM in association with University of Massachusetts Lowell, USA; University of the District of Columbia, Washington DC, USA and American Society for Engineering Education (ASEE). It's organization not only signaled the metamorphosis that RCOEM is going through but also the contributory role that the College is likely to play in the future in international education arena.

Enjoy reading.

Dr. (Ms.) Deepshikha Mehra

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SHRI RAMDEOBABA COLLEGE OF
ENGINEERING AND MANAGEMENT

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MOMENTOUS EVENTS

INTERNATIONAL CONFERENCE

ELECTRONIC SYSTEMS, SIGNAL PROCESSING, AND
COMPUTING TECHNOLOGIES
(ICESC-2014)

9TH TO 11TH JANUARY 2014



International Conference on Electronic Systems, Signal Processing and Computing Technologies (ICESC-2014), was organized in association with University of Massachusetts Lowell, USA; University of

the District of Columbia, Washington DC, USA and American Society for Engineering Education (ASEE). It was technically sponsored by IEEE Bombay Section. The conference was an opportunity for the

participants to interact with researchers, industry experts, and renowned scientists for

gaining new direction and ideas in research and applications in electronics engineering.



THE INAUGURAL



The inaugural function was held on 9th January 2014. Dr. Vasudeo K. Aatre, former scientific adviser to Defense Minister, was the Chief Guest of the function. Dr. (Ms.) Barbara Masi, Director, Education Innovation and Assessment Initiatives, Arts, Sciences and Engineering from University of Rochester, USA, was the Guest of Honor. Shri Banwarilal Purohit presided over the

function in the prominent presence of Shri Chandrakantbhai Thakkar (Vice-Chairman), Shri Satyanarayan Nuwal (Vice-Chairman), Shri Govindlal Agarwal (General Secretary), Dr. V. S. Deshpande (Principal), Dr. Rajesh S. Pande (Vice-Principal and General Chair), Dr. M. B. Chandak (General Chair), and Dr. (Mrs.) A. A. Khurshid (Conference Chair).



Invited guests were Dr. Kanti Prasad, UMASS Lowell, USA; Dr. Devdas Shetty, and Dr. Paul Cotae from UDC, Washington, DC, USA; Prof. John Rowe and Mr. Rajdeep Choudhury from London School of Training; Dr. Shungwei Lui, University of Cumbria,

UK; and Mrs. Padmini Parameshwaran, Northumbria University, UK.

The highlights of the inaugural were the release of the proceedings of the conference. Additionally, Shri Govindlal Agarwal exchanged MOUs with the representatives of two UK universities, i.e., Dr. Shungwei Lui of University of Cumbria and Mrs. Padmini Parameshwaran of Northumbria University. The inauguration was followed by keynote address by Dr. Vasudeo K. Aatre on "Electronics in the Battle Field".



PLENARY SESSIONS

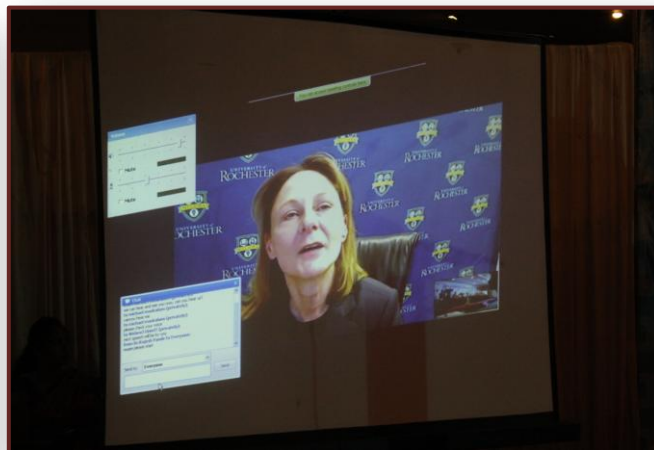


The day of the inaugural and the subsequent two days of the conference saw eminent academicians deliver plenary talks on current issues related to the theme of the conference.

These included:

- ◆ Dr. Devdas Shetty from UDC, Washington DC, USA, spoke on “Emerging Trends in Smart Manufacturing and Intelligent Sensing”
- ◆ Dr. Paul Cotae from UDC, Washington DC, USA spoke on “Non Data Aided Time Phase Recovery Methods for Underwater Communications”
- ◆ Dr. Kanti Prasad from UMASS, Lowell, USA spoke on “Global Societal Impact of Engineering Education and Industrial Revolution”
- ◆ Prof. OPN Calla from International Centre for Radio Science, Rajasthan spoke on “Applications of Microwaves”
- ◆ Dr. Anil Tiwari from IIT, Jodhpur spoke on “Lossless Image and Video Compression Methods and Challenges”.
- ◆ Dr. Debabrata Nayak from Huawei Telecommunication India Private Ltd. spoke on “Cloud Computing and its Security A Millennium Approach”.

PANEL DISCUSSIONS



Second day of the conference saw panel discussions on various themes related to electronics and computer science. These panels were headed by Dr. Kanti Prasad with participation from Dr. Devdas Shetty, Dr. Paul Cotae, Prof. John Rowe, Mr. Rajdeep Choudhury, Dr. Shungwei Lui, Dr. N. K. Choudhary (Director of VNIT- Nagpur), and

Prof. Q. H. Jeevaji. Dr. (Ms.) Barbara Masi was present online. During the conference various industries like Agilent Technologies, Tektronix, and Cyronics Instruments Pvt. Ltd. exhibited their latest product for test and measurement in electronics engineering. This was value addition for the participants.

CONFERENCE CLOSING



The conference concluded with a cultural event by the students of RCOEM to provide

the guests a glimpse of the diverse and rich culture of India. This was followed by a banquet dinner.

MOMENTS OF ICESC-2014



MOMENTS OF ICESC-2014



PRE-CONFERENCE SESSIONS

◆ Short Course in Mechtronics from 1st to 8th January 2014

The course was conducted by Dr. Devdas Shetty and it covered basics of Mechatronics, orientation in Mechatronics product design covering various aspects of control system design, modeling and simulation concepts utilizing LabVIEW and VisSim software tools. Other academicians who conducted the sessions in the workshop were:

- ◆ Dr. P. R. Apte and Dr. P. S. Gandhi, Professors from Indian Institute of Technology, Mumbai
 - ◆ Dr. R. M. Patrikar, Professor, Visvesvaraya National Institute of Technology, Nagpur
 - ◆ Dr J. P. Modak, Dean R&D, Priyadarshini College of Engineering, Nagpur
- ◆ **Open interactive session with RCOEM Management Students**

It was conducted by Mr. Rajdeep Choudhury, CMgr MCMI - Head of Client Services, London School of Training, London and Mr. John Rowe, MRICS, Cert TEFL - Head of Training, London School of Training, London.

◆ Tutorial on Natural Language Processing (NLP) inaugurated

The Tutorial was inaugurated on 5th January 2014 by the Chief Guest of the function Dr. Pushpak Bhattacharya. Dr. Bhattacharya, a Professor with IIT-Powai, has an expertise in Natural Language Processing.



Shri Govindlal Agarwal presided over the function in the prominent presence of Dr. V.S. Deshpande, Dr. R.S. Pande, Dr. M.B. Chandak, Dr.(Mrs.)A. A. Khurshid, and Dr. A.J. Agrawal (Tutorial Chair).

Dr. A.J. Agrawal enumerated the Tutorial programme, while Dr. M.B. Chandak provided a peep into the sessions and programmes that were to be conducted in the conference. Dr. V.S. Deshpande motivated the participants to undertake research projects to contribute constructively towards the society.

In his presidential address Shri Govindlal Agarwal, also stressed on the need for quality research to benefit the society.

A session on 'Machine Translation' by Dr. Bhattacharya followed the inaugural. This covered the basics of NLP and introduced to the participants various tools and techniques for its implementation. He also spoke about "Sata-anuvadak-Translator" developed by IIT - Powai. In this interactive session many real life problems and research issues were discussed.

◆ Workshop on Smart and Micro Grid

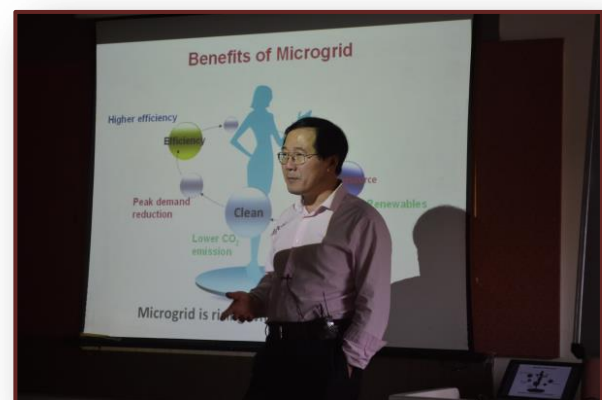


The workshop was organized on 7th and 8th January 2014 and was conducted by Prof. Dr. Xiongwei Liu, Chair of Sustainable Engineering, University of Cumbria, UK. Department of Electrical Engineering and Electrical Engineering Students' Association (EESA) coordinated the workshop to

empower and enrich the knowledge of the students in the upcoming field of Smart and Micro Grid.

The topics deliberated in the workshop were smart grid architecture, role of micro and smart grid, grid integration of renewable energy sources and intelligent energy management systems. The workshop was a value addition in terms of introducing the participants to this technology that will utilize and harness renewable sources that were utilized in the past. A Live Demo Zone with different software applications pre-loaded on different Hybrid Clients were shown in the Department by "Vardhaman Technologies Pvt Ltd".

Prof. N. M. Deshkar, Prof. G. N. Goyal, Prof. (Mrs.) S. H. Deshmukh, Prof. (Mrs.) P.V. Kapoor and Dr. M. M. Renge coordinated the workshop under the guidance of Prof. V. T. Barhate, HOD of Electrical Engineering. It had the prominent presence of Prof. V. A. Huchche, Prof. M. B. Gaikwad, Prof. S. C. Rangari, Prof. P. A. Salodkar, and Prof. S. V. Umredkar.



EMPOWER - 2014

7TH AND 8TH OF MARCH 2014



Over last three years, EMPOWER has turned out to be a flagship event of Shri Ramdeobaba College of Engineering and Management. A unique idea of bringing in latest technologies in the field of engineering for the Third and Final Year as well as M.Tech students was conceived by team EMPOWER of Electrical Engineering Department in 2012 and has since then seen successful implementation. One of the fundamental reasons for the enormous success of the EMPOWER is healthy interaction between the industry representatives and the students. EMPOWER 2014 was inaugurated by Shri Rajiv Abhyankar - Sr. Vice President, Cethar Ltd. under the chairmanship of Shri Banwarilal Purohit in

The event witnessed the presence of sixteen leading Electrical Engineering companies represented by 54 working engineering professionals and their associates who interacted with 312 UG and PG students from over 15 engineering colleges of Vidarbha region.

the presence of Shri Govindlal Agrawal, Dr V. S. Deshpande, Dr R. S. Pande, Prof V. T. Barhate, deans, heads of the departments, management members, principals, senior professors, consultants, and working professionals as well as faculty members of RCOEM and other engineering colleges. The companies that participated were Finolex (power cables), Hager (LV protective devices and automation), High Rise Transformers (power and distribution transformers), Larsen & Toubro (switchgear and control gear), TDK Epcos (power factor capacitors and harmonic filters), Wipro Lighting (lamps and luminaire), Waree (solar technologies), DV Associates (instrumentation and controls),

Gentech (HVAC compressors), Ojha Enterprises (insulators, AB switch/ rotary isolators, LA), Powerica (DG sets), Pioneer Controls (AC/DC drives), Synergy (underground cable fault detectors), VSP Aqua Mist (specialized fire fighting equipments, Western Engineers (LT motor and power control centers, APFC panels). The companies were represented by engineers not only from Nagpur but also from Mumbai, Pune, Bangalore, Delhi and other principal cities. The companies showcased and explained in detail their latest product range and delivered technical lectures.

Team EMPOWER consisted of Prof. Jayant Joshi, Prof. Niranjan Deshkar, Prof. Uday Mujumdar, and Prof. Hemant Diddee who were ably assisted by Prof. Sangeeta Deshmukh, Prof. Preeti Kapoor, Prof. Sonali Rangari, Prof. Vijaya Hucchhe and Prof. Gaurav Goyal along with the enthusiastic students' team from Department of Electrical Engineering.

MOMENTS OF EMPOWER - 2014



TEMPLE NEWS



The religious discourses and celebrations at Shri Ramdeobaba temple in this quarter were:

- ◆ Dooj which was celebrated on 2nd January and 2nd of March 2014
- ◆ On 1st of February 2014 Dooj Jamma was celebrated at the temple
- ◆ 9th of February 2014 was Dashmi where celebrations took place in the temple
- ◆ On 27th of February 2014 Mahashivratri was celebrated in reverence of Lord Shiva
- ◆ Additionally, *Holi Dahan* symbolizing burning of evil, was organized on 16th of March 2014, a before the festival of colours, Holi.

WRITERS' CORNER

ENTWINING ETHICS INTO SUCCESS

Prof. Aparna Gurjar

An oft repeated adage that we all are familiar with says - "Nothing succeeds like success". This quote underlines the importance success has in our lives today. In this competitive world each one of us wants to out-do the other. Because success guarantees a person fame and fortune, every one of us is in the rat race, chasing it like a mirage. This obsession, many a times though, makes us forget the means through which we go about achieving success. This "success at all cost" attitude results in total absence of ethics in our functioning. But how many of us really understand the true concept of success or what constitutes a successful person?

Commonly, success is measured by tangible parameters like wealth, land, estate etc. Possession of these enables a person to be graded as successful. There are other intangible parameters also like fame, powerful position etc. which too can convey that a person has been successful in life. But these parameters in themselves do not convey its true meaning. For example, A person might have amassed great wealth by indulging in nefarious activities like extortion, drug peddling etc. So does he/she get classified as a successful person? This forces us to think that something vital is missing from the concept of success as we observe it. This vital

Without the reins of ethics, blind pursuit of success has the potential to cause great damage.

thing, which most of us tend to overlook, is ethics. True success has to be bound by ethical and moral constraints or it gets stretched into the grey areas. Ethics form a very important part of the human psychology. They are essential at all strata of life. Be it business or some government sector, office or home, ethics form the solid base on which the entire super structure of an entity is built. Lack of a strong ethical foundation introduces weak links in the structure of an organization, hastening its disintegration.

We see such unfortunate incidences happening many a times all around us. On the other hand, following the principles of business ethics helps an organization to maintain transparency in dealings and directs all its efforts towards welfare of its stake holders. In matters related to running the country also, ethical governance guarantees an equitable and all round progress of the country.

So what happens when people aim for success devoid of ethics? They become self centered. They trample on other people's rights and freedom and indulge in unlawful activities in order to push forward their personal agendas. This has damaging consequences for society as a whole. History is replete with examples of people who, had they been more ethical in

their approach, would have made huge contribution in the public domain. But they failed to do so. Yes they amassed great wealth and conquered many kingdoms but history remembers them as villains and not as role models for success. And then there are people like the Mahatma, father of our nation, who showed us that it is possible to achieve success through ethical means too. The Mahatma always had an ethical and moral dimension to whatever he propagated and practiced. The results are there for all of us to see. He almost single handedly was able to furnish the exit of British from India without bloodshed. This one endeavor of his surely surpasses all other endeavors which we categorize as success.

The reason we leave behind ethics in our pursuit of success is because we only aim for shortcuts and do not want to put in the effort required towards attaining it. The psychological degradation, seen everywhere today is due to a complete breakdown in the ethical values. Ethics teach us to temper our ambitions by creating a balance between self progress and public good. This in turn creates empathy amongst different sections of people and helps reduce animosity. This is not to state that it is unethical to be ambitious, dream about success or think and plan our own good. Achieving success in any endeavor is a great motivator as one success breeds another. The body language of a successful person changes for the good and he/she exudes great confidence. It helps

him/her hone his/her leadership qualities as other people look up to him/her and take cue from his/her success. But without the reins of ethics, blind pursuit of success has the potential to cause great damage.

So do as the Mahatma preached. Give ethics a chance and see how it gives an entire new meaning to success, makes a difference to other peoples' lives and elevates you.

(The author is Assistant Professor with Department of Computer Application, RCOEM)

THOUGHTS OF A TEACHER

Dr. Rajeshree Raut

With humble thoughts and devotion
I want to put all my efforts and contribution
and have a goal of adding a drop to the
technology ocean.

Herewith, I am prepared, for life time
dedication,
to march towards technology revolution.

Teaching is my passion,
To make my students future bright, my
ambition
to see them serve mankind my vision.

(The poet is Associate Professor with the Department of Electronics and Communication)

ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

✦ FACULTY CORNER

- ◆ Prof. A. K. Sharma's paper entitled "Personal Rapid Transit – an innovative and sustainable transport system" was published in *IOSR Journal of Mechanical and Civil Engineering*, volume 2, pp. 67-70, ISSN: 2278-1684, ICAET-2014.
- ◆ Dr. R. N. Khapre's paper entitled "Comparative Study of Endodontic Files with Various Cross Sections with Varying Threads" was published in *Advanced Science, Engineering and Medicine*, 6/1, pp 75-80, ISSN: 2164-6627.
- ◆ Prof. (Mrs.) Snehal Abhyankar's presented a paper entitled "Innovative Trends In Earthquake Resistant Design Of Structures" in AICTE sponsored International Conference on Disaster Management organized by Department of Civil Engineering, YCCE, Nagpur in association with Northern Illinois University, USA and SEGi University Malaysia.

✦ STUDENTS' ACCOMPLISHMENTS

- ◆ Vivek Kukudkar, an M.Tech student of Structural Engineering, presented a paper

entitled "Behaviour of cable truss under combined load with support flexibility" in the 'National Conference-14 on Active Trends in Engineering and Technology', at V. M. Institute of Engineering and Technology, Nagpur on 28th February and 1st March 2014.

- ◆ Deepesh Gandhi, Akash Mor, Anupam Pande, Shreyansh Sethiya, Abhishek Agrawal, Anirup Laddha, Randeep Chabda, Krupesh Mehta, Milind Trivedi, and Ashish Jogi were placed in Mahagun Infrastructures, Noida in Feb 2014.

✦ CAPACITY BUILDING ACTIVITIES

- ◆ **NEEV 14 - technical extravaganza organized by Civil Engineering Students Association (CESA)**

NEEV is organized every year with an aim to provide a platform for civil engineering students to enhance their technical skills and to bridge the gap between classroom teaching and practical application. Under the banner of NEEV14 six technical events and a workshop on entrepreneurship awareness was organized, where the following experts

shared their knowledge and experiences with the students:

- ◆ Prof. M R Jain, RCOEM, spoke on “Why Entrepreneurship”.
- ◆ Mr. Vivek Naik from Bureau of Indian Standard committee CED-2 spoke on “Opportunities in Construction Chemicals”.
- ◆ Mr. Sachin Jain from National Institute of Construction Management And Research, Pune shared his expertise on “New Construction Materials”.
- ◆ Mr.Sushil Fatepuria from Pyra Vastu Consultant guided the students on “Vastu For Civil Engineer”.
- ◆ Mr. Shekhar Diwale and Mr. Anwaar Ashraf from Consortium for DEWATS Dissemination (CDD) Society, Nagpur spoke on “Business Opportunities on Small Water Treatment Plant (DEWATS)”.
- ◆ Mr. Anil Nair from Pioneer Infrastructures Company Pvt. Ltd. shared his views on “Financial analysis of Flat Scheme”.
- ◆ Dr Satish Shrivastav MBA Department, G. S. College of Commerce and Economics, Nagpur spoke on “Financial Management for Civil Engineers”.
- ◆ Mr. Rajeev Pandey, Specialty Concrete Coordinator for Maharashtra, Gujarat and M.P, spoke on “RMC and cement products”.
- ◆ Mr. Vivek Pathak, Pathak Properties Pvt. Ltd, shared his knowledge on

“Opportunities in Real Estate and Infrastructure”.

- ◆ **Industrial Motivation Campaign by Micro, Small & Medium Enterprises MSME Development Institute, Govt. of India, Ministry of MSME**

This one day campaign was organized by the experts of MSME 25th January 2014. The Chief Guest for the function was Dr. M. S. Kadu H.O.D. Civil Engineering Dept. More than 60 students participated in the campaign. The experts shared their expertise on definition of enterprises, manufacturing sector, technical consultancy services, guidance for preparation of project report/profiles, cluster development programme, economic and statistical information services, marketing services, and entrepreneurship development Programme (EDP)



◆ Guest lecture by Mr. Karnik



He spoke on the “Importance of control of Carbon emission” where students from all semesters participated. Mr. Karnik simplified the importance of control of carbon content in the atmosphere and also advised the students to maintain a difference between life and lifestyle.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

◆ FACULTY CORNER

◆ Dr. M.B. Chandak attended the following programmes:

- NBA Evaluator Training for Evaluator Training program on Tier-I format” at G.H. Raisoni College of Engineering, 29th April 2014.
- Oracle Industry-Institute Meet on Oracle Cloud World at Oracle, Mumbai, 2nd April 2014.
- Infosys Industry-Institute Meet on Industry Institute Partnership program at Infosys, Pune, 6th March 2014.

◆ Dr. M.B. Chandak’s following papers were published in *IOSR Journal of Computer Science (IOSR, JCE)*, ICAET 2014, Volume 4, e-ISSN:2278-0661,p-ISSN: 2278-8727, January 2014:

- “An Approach towards Traffic Management System using Density Calculation & emergency Vehicle Alert” (pp-24-27)
- “Design & Implementation of Human Computer Interaction using Brain Waves Electric Signals” (pp-24-28).
- ◆ Research papers of faculty members of the department were published in *International Journal of Advanced Research in Computer and Communication Engineering*, 3/3, ISSN (Online): 2278 – 1021, ISSN (Print): 2319 – 5940, March 2014. These were:
 - Dr. M.B. Chandak’s paper entitled “Application of Indirect Trust Computation in MANET” (pp: 5819-5826)

- Prof. Ruchika Sinhal's paper entitled "Machine Translation Approaches and Design Aspects"
- Prof. A. Karandikar's paper entitled "A Review of Methods for Developing Business Rules Engine"
- ◆ Prof. Smita M. Nirkhi presented a paper entitled "Authorship Attribution of online messages using Stylometry: An Exploratory Study" in International Conference on Advances in Engineering and Technology (ICAET 2014) Singapore on 29th and 30th March 2014
- ◆ Prof. Ruchika Sinhal's paper entitled "Machine Translation Approaches and Design Aspects" was published in *International Organization of Scientific Research Journal of Computer Engineering (IOSR-JCE)*, 16/1, Ver-II, pp-22-25, January 2014, ISSN: 2278-8727.

◆ STUDENTS' ACCOMPLISHMENTS

- ◆ The Department continued the tradition of high placements where 66 job offers were made to 53 Final year students out of which 13 students have two or more jobs each. Additionally, three M.Tech students have been placed.
- ◆ Seventeen students are doing industry projects as part their curriculum.
- ◆ Abhilash Sharma of Final Year brought laurel to the Department in GATE 2014 by scoring 99.78 percent, with all India rank of 340. Rucha Badhe scored 98 percent, Anmol Agrawal - 97 percent, and Komal Lalwaani – 95 percent in GATE.
- ◆ Final Year students brought laurel to the College by securing 1 to 10 rank in the RTMNU winter 2013 exams. These include Shilpa S. Mundada (1st), Rucha M. Badhe (2nd), Aanchal Y. Gupta (3rd), Jayantkumar Nathani (5th), Pranija P. Jajoo (7th), Mayuri A. Sahastrabuddhe (9th), and Shruti A. Baneerjee (10th). Ninety-four percentage students of Department have passed the exam.
- ◆ The students from 5th semester (under autonomy) scored high CGPA from 9.58 to 9.18. These include Pooja Palod, Daniya Rehman, Noopur Ballal, Roshni Tiwari, Aditi Gour, Ankita Agrawal, Namita Nisal, Needa Pathan, Manasvi Gurnaney, Ashwin Bhojar, Kehkashan Fazal, and Maria Lakkadwala.
- ◆ The students from 3rd sem (under autonomy) scored high CGPA from 9.58 to 9.05. These include Rashmi Jakhotiya, Ketaki Kinage, Wani Bisen, Snehal Sambare, Neha Agrawal, Apurva Nimodiya, Sarthak Shrivastava, Rashi Agrawal, Anand Kumar Singh, Suvidha Maheshwari, and Sanjana Batra.
- ◆ Akshay S.S Ayre participated in Truss Ted at Y.C.C.E, Nagpur on 28th January 2014.
- ◆ Sagar Pawar participated in Hack+tricks at IIT, Bombay on 3rd January 2014 and stood first.
- ◆ Saurabh Damani and Vivek Kumar participated in Web development at IIT, Bombay on 4th January 2014 and stood first.
- ◆ Tanmay Sharma and Atul Mishra participated in Athletics 4x100 at

RCOEM on 15th January 2014 and were awarded a Gold medal each.

- ◆ Krunal Umak, Mital Awchat, and Anagha Baheti participated in INNOPRENEURS 2014 A National Level Project – Idea Competition at Institute of Management Technology Campus, Nagpur in March 2014

❖ CAPACITY BUILDING ACTIVITY

- ◆ Interactive Session on “MOBILITY SCENARIO”



The Department organized an open interactive session with its students where Mr. Pankaj Sule, Senior Manager, Global Logic Inc delivered a lecture on the types of Operating Systems in mobiles and developing applications for mobiles. He illustrated the development cycle and importance of applications provided with the mobility devices and its career scope. Dr. M. B. Chandak welcomed and felicitated Mr. Pankaj Sule.

- ◆ Career Opportunities in USA: Guest lecture by RCOEM Alumni



A guest lecture was organized by Dr. M. B. Chandak, where Mr. Vasusen Patil, who is currently working in the USA, interacted with students through Skype. He guided the students about the career opportunities in US, career planning, differences in work environment, and hiring strategies in India and US as well as the current trends. Many queries of the student were solved through the interaction.

◆ Parent-Teacher Meet

The Department organized a Parent-Teacher Meet on 5th April 2013. In addition to an information booklet given to the parents on the achievements of the students and the activities organized by the Department, Dr. M. B. Chandak met the parents of the academically weak students. The parents also had a discussion with respective subject teachers over the problems and suggested ways for improvement.

✦ BEYOND ACADEMICS

◆ CSI Students' Branch Chapter at RCOEM

Computer Society of India established its students' branch professional chapter at RCOEM with the basic aim to help the students and faculty to interact with distinguished speakers from industry and academics as well as building their capacity in research. CSI is recognized by accreditation bodies for association with professional organizations, and provides benefits like reciprocal membership of BCS and ACS with subsidy on products offered by them.

◆ POLARIS 2014

POLARIS-2K14 was inaugurated on 16th January 2014. Mr. Shekhar Patankar - Technical Head at Persistent Pvt. Ltd. was the Chief Guest, while Mr. Pankaj Sule - Senior Manager, Global Logic was the Guest of Honour. Dr. V.S. Deshpande presided over

the function. The event also had the prominent presence of Dr. M. B. Chandak, Prof. Devishree Naidu - Convener POLARIS- 2K14, and Mr. Saquib Ali – President, COMPUSYS.



Mr. Shekhar Patankar in his address spoke about the importance of such events and encouraged them to organize such activities every quarter. Dr. V.S. Deshpande in his presidential address applauded the Department for arranging such event with excellent team work from the students. In his address Dr. M. B. Chandak highlighted the importance of such type of events in personality development.

About 1200 students participated in the event. Souvenir of COMPUSYS "Casepos" was also released on the occasion. COMPUSYS students were felicitated by the Chief Guests for bringing laurels to RCOEM in sports competition. Aditya Morarkar was felicitated for winning prize money of Rs. 6 lakhs in NDTV quiz contest. Anchal Gupta - General Secretary, COMPUSYS proposed the vote of thanks.

DEPARTMENT OF ELECTRICAL ENGINEERING

❖ FACULTY CORNER

- ◆ Prof. Sanjay Bodkhe was invited as Session Chair in International Conference organised by Anjuman College of Engineering, Nagpur on 8th January 2014.
- ◆ Local daily, Lokmat Times, recently published the interview of Prof. S.B. Bodkhe in its 31st January 2014 issue. It was in Friday's supplement called 'Career' in the column called Panaroma. The topic of discussion was 'Higher Engineering Education in India'.
- ◆ Prof. D. R. Tutakne has developed a "Light Weight Power Resume Alarm Controller" which is made to timely acknowledge restoration of power to MSEDCL power supply after shut down. The installation of this unit at the sub-station would save recurring diesel consumption in the generator.
- ◆ Prof. T. G. Arora's paper entitled "Fuzzy Logic Based Life Estimation of PWM Drives Induction Motors" was published in *International Journal of Electrical and Computer Engineering Innovations*, 1/2, ISSN-print 2322-3952; ISSN online: 2345-3044, December 2013 (accepted in January 2014).
- ◆ Prof. U. B. Mujumdar presented a paper entitled "Selection of Digital Controller for Power System and Power Electronics Applications" in International Conference ICRSC-2014 organized by RCOEM, Nagpur from 9th to 11th January 2014.
- ◆ Prof. M. M. Renge's paper entitled "Closed Loop Hybrid Drives Torque Control for Medium Voltage Induction Motor Drives for Performance Improvement" was published in *IET Journal of Power Electronics*, 7/1 pp:1031-1040, January 2014.
- ◆ Prof. P. A. Salodkar presented paper entitled "A new simplified multilevel inverter topology for grid connected application" in International Conference IEEE student on Electrical, Electronics and Computer Science 2014 at MNIT Bhopal, 1st and 2nd March 2014.
- ◆ The following team of faculty members and students presented papers in SPANDAN 2014, National Conference on Advances in Engineering, Technology and Applied Sciences, 22nd to 24th March 2014:
 - Priya Gaikwad (M. Tech student) and Prof. M. B. Gaikwad presented "Power Flow Control in a Transmission Line Using Facts Device UPFC".
 - Shivpal Verma (M. Tech student) and Prof. P. V. Kapoor presented "Comparative Analysis of multicarrier SPWM control

strategies using Five level cascade H-bridge multilevel Inverter”.

- Prof. G.N. Goyal and Ankita Pande presented “Comparison of different control methods of z source inverter”
- ◆ Yashoda Rani (M. Tech student) and Prof. S. H. Deshmukh’s paper entitled “Study on Performance Improvement of AC - DC converter” was published in *International Journal IJER Journal*, 31st March 2014.
- ◆ Jyoti Agrawal and Dr. Sanjay Bodkhe’s paper entitled “Modeling and simulation of a torque controlled permanent magnet synchronous motor drive” was published in *International Journal of Engineering Research and Technology*, 3/3, pp. 2098-2106, March 2014.
- ◆ Archana S. Talhar and Dr. Sanjay B. Bodkhe’s paper entitled “Modernization of traditional grid into smart grid through renewable sources” was published in *International Journal of Electrical Engineering and Technology*, 5/2, pp. 01-11, February 2014.
- ◆ Dr. S.B. Bodkhe was invited by the following engineering colleges to deliver guest lectures:
 - He spoke to Final Year students on “Trends in Transformer and Induction Motor” at Guru Nanak Institute of Engineering and Technology, Dahegaon, Kalmeshwar Road, Nagpur on 20th January 2014.
 - He spoke on “Industrial Electric Safety” at Shri Dutta Meghe

Polytechnic, Hingna Road, Nagpur on 3rd March 2014.

- ◆ Prof. M. M. Renge took a laboratory session on “DSP” on 6th and 7th February 2014 at Electrical Engineering Department, VNIT for their M. Tech students and research scholars.
 - ◆ The following faculty members gave expert lectures on 24th March 2014 in a five-day short term training programme on “TI MSP 430 Microcontroller, Analog System and and Applications” organised by Electrical Engineering Department, RCOEM.
 - Prof. M.M. Renge spoke on “SPWM Technique using DSP”
 - Prof. U. B. Mujumdar shared his expertise on “Microcontroller Interfacing Techniques”
- The training programme was also attended by Prof. V. T. Barhate, Dr. M. M. Renge, Dr. S. B. Bodkhe, Dr. D. R. Tutkane, Prof. R. G. Deshbhrata, Prof. U. B. Mujumdar, Prof. S. H. Deshmukh, Prof. V. A. Huchche, Prof. M. B. Gaikwad, Prof. S. C. Rangari, Prof. P. A. Salodkar, Prof. G. N. Goyal, Prof. S. V. Umredkar and Prof. A. Kakade.
- ◆ The following faculty members gave expert lectures in Faculty Assistance Programme in “AC and DC Drives” at Ordnance Factories Institute of Learning, Ambajhari, Nagpur which was attended staff members from different Ordnance Factories in India.
 - Prof. M.M. Renge gave a talk on “AC and DC Drives” on 8th January 2014.

- Prof. M.M. Renge spoke on “Harmonics in Drives System and Mitigations” on 12th February 2014 and on “AC Drives System” on 13th February 2014 in
 - Prof. H. Diddee gave an expert lecture on “Electrical Audit” on 09th January 2014.
 - Prof. N. M. Deshkar spoke on “Motor Characteristics and Their Control” on 10th February 2014.
 - Prof. S. C. Rangari spoke on “Inverter and Cycloconverter” on 11th February 2014.
 - Prof. G. N. Goyal spoke on “Servomotor and Tachogenerator” on 12th February 2014 and on “Servomotor and its Application” on 17th February 2014.
 - Prof. R. G. Deshbratar spoke on “DC Drives” on 13th February 2014.
 - ◆ Prof. M. M. Renge and Prof. J. S. Joshi attended a one day workshop on “Curriculum development” to discuss various aspects of the syllabus of 5th and 6th semesters of Electrical Engineering on 22nd January 2014 in Anjuman College of Engineering and Technology organized by Board of Studies of Electrical Engineering of RTMNU.
 - ◆ Prof V. A. Huchche attended a three-day workshop on “Power Quality and Related Issues” from 9th to 11th January 2014, organised by Electrical Engineering Department, VNIT, Nagpur.
 - ◆ Prof. P. S. Salodkar and Prof. S. C. Rangari attended the following workshops organised by Electrical Engineering Department, VNIT, Nagpur:
 - A two-day workshop on “C2000 microprocessor” on 17th and 18th January 2014
 - A three-day workshop on “Power Electronics in Power System” from 06th to 8th January 2014.
 - ◆ Dr. S. B. Bodkhe attended one day workshop on “Quality Assurance in higher Education: RUSA & AAA perspective” on 29th March 2014 in Gurunank Bhavan, near university Guest House, Nagpur.
 - ◆ Prof. U. B. Mujumdar’s paper entitled “Development of Hardware set up for Solar Photovoltaic System monitoring” was published in INDICON 2013, organised by IEEE Bombay section and IIT Mumbai, pp: 1-6 DOI: 10.1109/INDCON.2013.6725944.
- ◆ **STUDENTS’ ACCOMPLISHMENTS**
- ◆ Eight students of Electrical Engineering Department have been selected in various companies through the campus interview process in this quarter. While Prasad Chakradeo, Rajshree Sharma, and Shreyansh Khandelwal have been selected by Tech Mahindra, Aakash Mishra, Ankit Arya, Sagar Raut, Shubham Gupta, and Sumit Shahu were selected by Mahagun Developers
 - ◆ Surbhi Joshi, Priyanka Shinde, Palash Mathniker and Rajnish Ojha of 6th semester attended an all India seminar on “Innovation in Green Building

technology” organized by Institute of Engineers, Nagpur Local centre on 17th and 18th January 2014.

❖ CAPACITY BUILDING ACTIVITIES

◆ Microcontroller and Analog Systems Lab. by Texas Instruments

RCOEM recently signed a MoU with Texas Instruments, India through Cranes Software International Ltd., Bangalore under the TI India University Programme. As per this agreement, TI has sponsored ten MSP430 Microcontroller kits and six Analog System trainer kits to the Department for academic purpose.

These kits are based on the latest version of microcontroller manufactured by Texas Instruments and will be used for UG and PG projects on industrial automation. The MOU was initiated and executed by Dr. S.B. Bodkhe under the guidance of HOD Prof. V.T. Barhate.

◆ STTP on “TI MSP430 Microcontroller, Analog Systems and Applications”



The Department organized this one-week long training programme from 24th to 28th March 2014. It was organized in collaboration with Texas Instruments and Cranes Software International Ltd., Bangalore and was approved by ISTE, New Delhi. The STTP was coordinated by Dr. S. B. Bodkhe and co-coordinated by Prof. U. B. Mujumdar. The resource persons were Mr. M. Narendra Babu of Cranes Software Ltd., Bangalore, Dr. M. M. Renge, Prof. U. B. Mujumdar, and Dr. Manish Chawhan of RCOEM. It was attended by industry personnel, M.Tech and UG students from various engineering colleges.

The programme was inaugurated by a Keynote lecture of Shri Asang Dani on “Embedded Systems”. Advancements in semiconductor devices have facilitated the advent of microprocessors and microcontrollers. This programme aimed at studying the design and development of such intelligent systems like Texas MSP430F2013 microcontroller and analog system applications. The main objective of this STTP was knowledge updation of teachers and other participants so that the same can be used in teaching, projects, and curriculum development. The five-day workshop included lecture sessions, computer simulations and hands-on experience on the hardware kits of microcontrollers and analog systems and was conducted in the laboratory of electrical engineering department which is well-equipped.

The valedictory function was presided over by

Shri Govindlalji Agrawal, General Secretary and was attended by Principal - Dr. V.S. Deshpande, HOD (EE) Prof. V.T. Barhate, course coordinators, resource persons, faculty members of the department and participants. The programme concluded with awarding of Certificates of Participation and recitation of the National Anthem.

◆ **Guest lecture on “Financial Planning for Young Investors”**

The lecture was conducted for 3rd and Final Year B.E. students of the Department on 1st February 2014. Dr. Kanchan Naidu of DMT was the resource person who made the students aware about different saving schemes with their advantages and disadvantages. The lecture was coordinated by Prof. V.T. Barhate and Prof. G.N. Goyal (EESA Incharge).

◆ **Expert lecture on “Reforms in Electrical Energy Sector and Opportunities for Young Generation”**

It was conducted for UG and PG students of Electrical Department and M.Tech students of Industrial Department on 8th February 2014. Mr. Prasanna Sutone, AGM (Marketing), Suzlon Energy Ltd. was the expert. The lecture started with a floral welcome by Prof. V.T. Barhate and introduction by Prof. N.M. Deshkar, IIC Electrical Departmental Coordinator. Mr. Sutone explained the present scenario of Indian power sector after the implementation of Electricity act 2003 and 2007, increased

scope for the private sector, thus leading to competition. This field may improve socioeconomic structure of India, he said, thereby increasing per capita income of individuals.

◆ **Expert lecture on “Gas Insulated Substation”**

EESA (The Department of Electrical Engineering and Electrical Engineering Students' Association) organized this lecture on 18th February 2014. Mr. Pandurang Kasale, Senior Engineer, Reliance Infrastructure delivered the lecture where he gave insights in the topic and shared his experience on design to commissioning of GIS. The vote of thanks was proposed by Prof. G.N. Goyal, EESA Incharge.

◆ **Workshop on AutoCAD Electrical under “Autodesk Student Interface 2014 program”**

EESA conducted the workshop on 22nd February and 15th March 2014 with ASTRAL INFORMATICS PVT LTD for Third Year B.E. students. Astral is a leading CAD training institute in Central India and is Academic Adoption Partner for Autodesk Inc., USA. Mr. Debjit Roy, an electrical engineer and faculty of Astral, conducted the workshop which was inaugurated by Prof. Gaurav Goyal—(EESA Incharge). The workshop was coordinated by Prof Hemant Diddee and ably assisted by Class Representatives - Ms. Nisha Tiwari and Mr. Ameya Palnitkar.

DEPARTMENT OF ELECTRONICS ENGINEERING

✦ FACULTY CORNER

- ◆ The following faculty members conducted various activities in a short-term training program on “VLSI Signal Processing” organized by the Department from 20th to 25th March 2014:
 - Prof. Jayu Kalambe delivered a lecture on “Recent Trends in VLSI Signal Processing”.
 - Prof. B. M. Hardas and Prof. (Mrs.) Gouri Morankar were members of its Press and Public relations committee.
 - Prof. R. R. Khandelwal conducted a session on “Signal Processing Algorithm Implementation on Code Composer Studio (CCS)” on 24th March 2014.
- ◆ Prof. B. M. Hardas and Prof. (Mrs.) Gouri Morankar worked as members of Press and Publicity committee of International Conference on Electronic Systems, Signal Processing and Computing Technologies [ICESC - 2014] from 9th to 11th January 2014.
- ◆ Prof. Suresh Balpande delivered a guest lecture on “Overview of MEMS” on 16th January 2014 at KITS, Ramtek.
- ◆ Prof. Jayu Kalambe delivered an expert lecture on “Design and analysis of Micro cantilever Sensor” at Shri Guru Gobind Singhji Institute of Engineering and Technology Nanded at TEQUIP-II sponsored workshop on MEMS Design and Simulation using TCAD software, 26th March 2014.
- ◆ Mrs. R. R. Khandelwal, P. K. Purohit, and S. K. Shrivastav’s paper entitled “Lattice Vector Quantization as nearly lossless compression Techniques on TMS320C6713” was published in *International Journal of Remote sensing and GIS*, 3/1, 2014, pp: 28-35.
- ◆ Prof. S. R. Pandey delivered lecture on “Low Power CMOS VLSI Design” at YCCE, Nagpur on 13th February 2014.
- ◆ Prof. S. S. Balpande delivered guest lectures in Ordnance Factory Ambazari, Nagpur on the following topics:
 - “Power Electronics Devices”, “Chopper and its applications” and “Converters”, on 11th and 12th February 2014.
 - “MEMS Sensors for Military Applications” on 18th Feb. 2014.
- ◆ Prof. M. B. Damle, Prof. Vishal Rathee, Prof. B. M. Hardas, and Mr. Sachin Hirurkar presented a paper on “Automatic Car Breaking System Using Fuzzy Logic and PID Controller” in ICESC-2014 organized by RCOEM from 9th to 11th January 2014.

- ◆ Prof. M. B. Damle and Prof. R. H. Khobragade conducted a seminar on “Career Aspects after the Engineering” on 10th Jan. 2014. Mr. Aditya Shrivastava B. E. Govt. College of Engineering Jabalpur was the key note speaker.
- ◆ Prof. M. B. Damle organized a seminar cum competition for student members of IETE ISF on 15th March 2014 on “Disaster Management” at Seminar Hall, Maharshi Karve Shikshan Sanstha, Khamla Nagpur. Mr. Ranjit Chansarkar a student of Electronics Engg. III year got the 3rd prize.

❁ CAPACITY BUILDING ACTIVITIES

◆ Inauguration of ENTRIX 6.0:

ENTRIX 6.0, a one-week technical workshop for Second Year students of E-branches, was inaugurated in the Department on 22nd January 2014 by Mr. Nilesh Kate, Director, Gentech Engineering Group, Nagpur. Dr. V.S. Deshpande presided over the function. The workshop saw the prominent presence of Prof. Q. H. Jeevaji, Dr. R. S. Pande, Dr.(Mrs.) A.A. Khurshid. Prof. B. M. Hardas and Prof. Gouri Morankar were Conveners of the workshop. Mr. Mohit Malviya, President ELECTOLITZ students’ society and Mr. Abhishek Bharadwaj - Technical Coordinator ENTRIX 6.0 were also present. Mr. Abhishek Bharadwaj introduced the sessions of the workshop. Mr. Nilesh Kate in his address advised the students to learn the fundamentals and spoke at length about focused approach and its importance in

shaping innovations. Dr. V.S. Deshpande in his presidential address applauded team ENTRIX and hoped that it will broaden its horizon in the future by taking up an interdisciplinary approach. Dr. R.S. Pande in his address recalled his association with ENTRIX since its inception and congratulated the society for keeping up the legacy. In her address Dr. (Mrs.) A. A. Khurshid highlighted the importance of such type of workshops in career development. Prof. Q. H. Jeevaji advised the participants to read basic standard reference books for their studies. About 140 students participated in the workshop. Souvenir of ENTRIX 6.0 was also released on the occasion. Electrolitz Students were felicitated for painting two graffiti in RCOEM campus. Karandeep Singh Khokhar and Surabhi Mahajan compared. Mohit Malviya proposed the vote of thanks.



Dignitaries releasing Souvenir of ENTRIX 6.0

◆ Short Term Training Program on “VLSI Signal Processing”

ISTE approved short-term training program on “VLSI Signal Processing” was organized

by the Department from 20th to 25th March 2014. It was inaugurated by Dr. Kaushik Roy, Professor, Purdue University, West Lafayette, Indiana, USA. Shri Govindlal Agarwal presided over the function and in his presidential address appreciated the efforts taken up by the organizing committee. Dr. V.S. Deshpande in his welcome address applauded the Department for organizing this training program. Prof. Q. H. Jeevaji, Dr. R.S. Pande, and Dr. (Mrs.) A. A. Khurshid, were prominently present. Dr. Kaushik Roy delivered the Keynote address on “Low Power Electronics” where he explained the importance of power considerations for scaled technologies and laid stress on integrated approach to design microelectronic circuits.

Various theory and hands-on sessions in the field of VLSI Signal Processing were conducted on various EDA tools like Mentor Graphic, Spice, Xilinx ISE, and Code Composer Studio. Resource persons for this STTP included experts from IITs, NITs, and

RCOEM. Thirty-nine faculty members from engineering colleges, research scholars, and post graduate students from electronics and allied branches participated. Dr. (Mrs.) Rohini Ochawar and Prof.(Mrs.) Jayu Kalambe coordinated the STTP.

- ◆ Guest lecture for 6th semester students of the Department was organized on 14th February 2014. The lecture was delivered by Mrs. Gouri Deshpande, Project Leader TCS, Pune. She spoke about RTOS and its relevance in industry. There was an interactive session after the talk. The program was coordinated by Student activity Incharge - Prof. Bhalchandra Hardas and Prof. (Mrs.) Gouri Morankar.
- ◆ Prof. Suresh Balpande organized a one-day workshop on “Advanced test and Measurement” on 10th January 2014 at the ICESC-2014 organized by RCOEM in association with AGILENT Tech., SCIENTECH Tech., ANRITSU Pvt. Ltd., TEKTRONIX and Cyronix Ltd.

DEPARTMENT OF ELECTRONICS DESIGN TECHNOLOGY

◆ FACULTY CORNER

- ◆ Prof. Anju Gupta and Prof. Divya Shrivastava attended ISTE approved one week STTP on “VLSI Signal Processing” conducted by EN Department, RCOEM

from 20th and 25th 2014.

- ◆ Prof. Jitendra Zalke and Prof. Lokesh Heda attended faculty development program on Entrepreneurship Development sponsored by Department of Science and Technology, National Science

and Technology Entrepreneurship Development Board (NSTEDB), Govt. of India, New Delhi from 11th to 24th March 2014.

- ◆ Prof. Lokesh Heda's (with student Amit Nandgave of Final Year) paper entitled "Industrial Drives and Automation using PLC" was published in *International Journal of Engineering Research and Technology (IJERT)*, 03/2, February 2014.

◆ STUDENTS' ACCOMPLISHMENTS

- ◆ Shivani Jha and Rachit Varma of 3rd Year presented paper entitled "The Survey of Real Time Operating System" in the international conference ICESC'14 organized by RCOEM, from 9th - 11th January 2014.
- ◆ Rachit Varma of 3rd Year attended a week long workshop on Mechatronic organized by RCOEM from 1st to 8th January 2014.
- ◆ Following students of 3rd Year presented papers at S.B. Jain College of Engineering, Nagpur on 4th February 2014:
 - Arnab Samanta and M.D. Shahrukh,
 - Snehal Bise and Anish Borkar
 - Shivani Jha and Rachit Varma
- ◆ Latasha Parasnani, Nitya Jain, Nidhi Shrivastava, Anjali Dhundele, Sushmita Singh, and Shaswati Bhagat of Second Year attended a one-week workshop, Entrix 6.0, organized by EN Department.

◆ CAPACITY BUILDING ACTIVITIES

- ◆ Guest lecture on "How to Build your Resume"

A guest lecture by Mr. Baldev Singh Ravat was organized on 27th March 2012. Mr Ravat is the founder of "Resume it up", Nagpur. He spoke about skills and major difference between education and skills. He motivated the students to gain skills in addition to subject knowledge, briefed them about concepts related to resume, the significance of good resume writing, tricks needed to get interview calls, skills to crack an interview, importance of social networking sites for getting good jobs, and different methods for the self analysis.

- ◆ Visit to 94.3 MY FM Radio Station

A visit to 94.3 MY FM Radio Station was organized for the students of the Department on 23rd January 2014. The students interacted with the authorities there and got an idea regarding the history and current scenario of radio stations. The students were also familiarized with the instruments and softwares used by radio stations currently.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

✦ FACULTY CORNER

◆ Faculty members of the Department participated in difference capacities in the International Conference on Electronic systems, Signal Processing and Computer Technology held at RCOEM, Nagpur, from 9th to 11th January 2014:

- Dr. S. B. Pokle presented two research papers on “Design Approach for Frequency Reconfigurable Vivaldi Antenna with pentagon slot resonator” and “An energy efficient scheduling strategy for data collection in wireless sensor networks”.
- Dr. Pankaj Agrawal, Aniruddha C. Kailuke, and R. V. Kshirsagar presented paper entitled “Design of Phase Frequency Detector and Charge Pump for Low Voltage High Frequency PLL” It was also published in proceedings of IEEE Computer Society, pp. 74-78, IEEE DOI 10.1109/ICESC.2014.21, Jan 09-11 2014.
- Dr. Pankaj Agrawal, Harish L. Sharma, and R. V. Kshirsagar presented paper entitled “Multipath Reliable Range Node Selection Distance Vector Routing for VANET: Design Approach” It was published in proceedings of IEEE Computer Society, pp. 280-

283, IEEE DOI 10.1109/ICESC.2014.53, Jan 09-11 2014.

- Dr. M D. Chawhan presented research papers entitled “Design and Implementation of various topology for NOC and its performance evaluation” and “Energy efficient wireless sensor networks”.
- Dr. S. B. Pokle Chaired the session “Analog/ Mixed signal circuits and systems”.
- Dr. R. D. Raut Chaired a session. She also worked as a Plenary Session Coordinator and Discipline Committee In charge for ICESC.
- Dr. Pankaj Agrawal was Coordinator for a oral presentation session. He also Chaired a session on 11 January 2014.
- ◆ Dr. Pankaj Agrawal, Amit Ku. Lamba, and Bharati B. Sayankar’s paper entitled “Performance analyses of speculative virtual channel router for network-on-chip”, was published in proceedings of International Scientific Forum, ISF 2013, European Scientific Institute, 3, pp. 247-252, ISBN: 978-608-4642-15-2.
- ◆ Dr. Pankaj Agrawal, Minakshi M. Wanjari, and Dr. R. V. Kshirsagar’s paper entitled “Implementation of Buffer for Network on Chip Router,” was published in *International Journal of Technological*

Exploration and Learning (IJTEL), 3/1, pp. 362-365. February 2014, ISSN no: 2319-2135. Impact Factor – 0.8965.

- ◆ Dr. Pankaj Agrawal, Shamla Mantri, Dipti Patil, and Dr. V.M. Wadhai presented paper entitled “Electrocardiogram Based Depression Analysis Using Expert Opinion” in 3rd International Conference on Recent Trends in Engineering and Technology, ICRTET-2014, organized by SNJB's Late Sau. K. B. Jain College of Engineering, Chandwad (Nashik), India, from 28th to 30th March. It was published in Elsevier 2014, pp. 803-807, ISBN: 978-93-5107-221-8, 2014.
- ◆ Dr. Pankaj Agrawal, Harish L. Sharma, and R. V. Kshirsagar presented their research paper entitled “Acute direction route node selection multipath routing for VANET: Design approach” \in International Conference on Signal Processing and Integrated Networks, SPIN 2014, organized by Amity School of Engineering and Technology, Amity University Uttar Pradesh, Noida, India, on 20th 21st February 2014. It was also published in proceedings of IEEE Computer Society, pp. 338-343, IEEE DOI 10.1109/SPIN.2014.6776974, Print ISBN: 978-1-4799-2865-1.
- ◆ Dr. Rajeshree D. Raut's published paper in the following journals:
 - “Performance analysis of turbo coded OFDM: Subjected to different channels”, in *International Journal of computer science Engineering and information technology research*, 4/1, pp. 25-34, February 2014, ISSN 2249-6831.
 - “Object tracking using parzen window based mean shift”, in *Elixir International Journal*, pp:21230-21233, February 2014, ISSN 2229-712X
 - “Experimental study of conventional energy detector for spectrum sensing”, in *International Journal of computer networking, wireless & mobile communication*, 4/1, pp. 51-58, Feb 2014, ISSN 2250-1568.
- ◆ Dr. Rajeshree D. Raut presented research paper entitled “Application of Data Hiding in Audio-Video Using Anti Forensics Technique for Authentication and Data Security”, in 4th IEEE International Advance Computing Conference, 21st and 22nd February 2014.
- ◆ Dr. Rajeshree D. Raut presented research paper entitled “Audio compression using DCT and CS in Matlab” in International Conference on Recent Trends in Engineering and Technology” ICRTET-2014, 28th and 30th March, 2014
- ◆ Prof. A. P. Nilawar's research paper entitled “Image retrieval using Gradient Operator”, was published in *IJRITCC*, 2/1, ISSN: 2319-2135.
- ◆ Prof. A. P. Nilawar's research paper entitled “Image retrieval using BTC with GLCM”, was published in *IJARCSSE*, 3/12, ISSN:2277-128x, pp.1194-1197
- ◆ Prof. M. M. Wanjari's research paper entitled “Implementation of Buffer in NOC Router” was published in International Conference IJTEL, 3/1, ISSN:2319-2135, pp.362-365 .

- ◆ Dr. S. B. Pokle delivered the following technical expert lectures:
 - “Use of OFDM technique in wireless communication” in 2nd workshop on ‘Implementation of Wireless network’ on 14th March 2014 at YCCE, Nagpur.
 - “Fast Convolution algorithms for VLSI signal Processing” at RCOEM in ISTE Approved STTP on “VLSI signal processing” on 25th March 2014.
- ◆ Dr. R. D. Raut delivered the following expert lectures:
 - “Research Paper Writing” in a Workshop at Abha Gaikwad College of Engineering on 1st March 2014.
 - “New Advances in Wireless Communication”, at GNIT on 17th January 2014.
 - “Wireless Communications”, at YCCE, 7th March 2014.
- ◆ Dr. M. D. Chawhan delivered the following technical expert lectures:
 - “Basics of Electronic Engineering with Matlab and P-Spice” at BACER, Nagpur in ISTE approved workshop on 14th and 15th February 2014.
 - “Microcontroller Architecture” in ISTE approved STTP on TIMSP 430 microcontroller, Analog Systems and Applications, RCOEM on 24th March 2014.
- ◆ Prof. D.G. Khushalani conducted the following technical sessions:

- “COMSOL simulation tool for MEMS design” in Mechatronics workshop organized in RCOEM on 3rd and 4th January 2014.
- “Coventorware” and “Intellisuite” simulation tool for MEMS design” at SGGSITE, Nanded on 26th March 2014.

- ◆ Prof V.S. Lande and Prof. B.A. Neole attended Research Symposium organized by IIT Bombay on 7th and 8th March 2014.
- ◆ Prof V.S. Lande and Prof. R. K. Rahate attended a week long STTP on “TIMSP 430 microcontroller, Analog Systems and Applications” organized by RCOEM from 24th to 28th March 2014.
- ◆ Dr. R. D. Raut was Expert in LEC Committee for Affiliation at YCCE, 24th March 2014.

✦ STUDENTS' ACCOMPLISHMENTS

Many students of the Department excelled in GATE 2014 examinations with good score and ranking. The students were Anirudh Rao, Palash Chaurasiya, Huzaifa Calcuttawala, Apeksha Agrawal, Nidhi Atre, Meenal Kohad, and Arpit Jain

✦ CAPACITY BUILDING ACTIVITIES

- ◆ Prof. Q. H. Jivaji delivered an expert lecture on “Motivation for higher studies” Dr. M. D. Chawhan was the faculty coordinator for the session.

◆ **TWO DAYS WORKSHOP ENTREBIZZ ON “ENTREPRENEURSHIP AWARENESS”**

The Entrepreneurship Development Cell of the Department conducted ENTREBIZZ, a two-day workshop on entrepreneurship awareness in association with Maharashtra Centre for Entrepreneurship Development on 15th and 16th February 2014. The inaugural function was presided over by Prof. Q.H. Jeevaji while Mr. Amitabh Meshram, Proprietor of Prowess Industries was the Chief Guest. Mrs. Indu Agrawal, OSD of RCOEM; Dr. S.B. Pokle, HOD; Dr. Pankaj Agrawal, Faculty Incharge of EDC cell; and Mr. M. R. Jain, Coordinator of EDC Cell, RCOEM were prominently present on the occasion.

A visit to MIHAN was also organised under this workshop which was headed by Mr. S. S. Kulkarni, Sr. Project Officer, MCED. Himanshu Kshirsagar compeered the program. The workshop saw a participation of 75 students from various colleges. Aliasghar Hussain, Ankit Jain, and Himanshu Kshirsagar as Student Secretaries and Bhupesh Harchandani, Amrita Agrawal, Isha Thatte, and Minal Bhartiya as members of EDC cell worked hard for the success of the program.

◆ **Workshop on Antenna Design and Microwave Engineering by Industry Institute Interaction Cell (IIIC)**

The Department has received a grant of Rs.25,000 for Industry Institute Partnership Cell (IIP Cell) from AICTE to conduct various activities. The departmental Coordinator of the Cell, Prof. Vipul S. Lande, organized a workshop on ‘Antenna Design and Microwave Engineering’ on 25th January 2014. A expert lecture on the same was delivered by Dr. S. L. Karode. Dr. R. D. Raut coordinated the workshop. 50 participating students were taken to Inotek Antennas Private Ltd., Butibori. They were also given hands-on training on design and testing of Antennas involved in Wi-Fi Systems and GSM communications which are being developed at Innotek Antenna Pvt Ltd.



◆ **Industrial visit to Silvassa and Daman**

Prof. R. B. Raut, Prof. V. S. Lande, Prof. P. R. Selokar and Prof. P. P. Deshpande visited industries in Silvassa (UT of Dadra, Nagar & Haveli) and Daman (UT of Diu & Daman) for Industry – Institute interaction on 13th, 14th and 15th March 2014. They interacted with representatives of Graham Blowpack Pvt ltd, Nilkamal Limited, U M Cables Ltd, International Packaging Products Pvt Ltd., and Baumer Technologies India Pvt Ltd.

These industries promised to provide internship to the students, allow industrial visits of students, and provide mentoring to UG/PG students' projects.

Parent-Teacher Meet

The Department organized the Meet on 15th March 2014. Class teachers of the respective

classes interacted with the parents. The Meet was conducted by Dr. R.D. Raut, Incharge Parent-Teacher Meet, in the presence of Dr. S. B. Pokle, while Prof. Anish Goel enumerated the academics and placement progress of the students.

DEPARTMENT OF INDUSTRIAL ENGINEERING

❧ FACULTY CORNER

- ◆ Dr. V. S. Deshpande's paper entitled "Root Cause Analysis and Economic Implication of Boiler Tube Failures in 210 MW Thermal Power Plant" was published in *IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)*, 2014.
- ◆ Prof. G. R. Potey has received Ph.D. in Mechanical Engineering from RTMNU.
- ◆ Prof. Priya Khandekar and Prof. Sachin Pund attended a five-day training programme on 'Basic MOST Technique' at UMAS, Pune from 13th to 17th January 2014. Prof. Priya Khandekar delivered a lecture on the same technique for the faculty members of Industrial, Mechanical, and DMT on 11th and 12th February 2014 in RCOEM.
- ◆ Prof. T. A. Madankar has attended one week workshop on CFD- Fundamentals and Software Training from 26th February to 2nd March 2014 at VNIT, Nagpur.
- ◆ Prof. T. A. Madankar's paper entitled "Re-scheduling of Maintenance task for

Diesel Locomotive (ZDM) maintenance work using FMEA Technique- An Industrial Engineering approach for saving the resources" was published in *IOSR Journal* (special issue). The paper was presented in the International Conference on Advances in Engineering and Technology-2014 organised by Anjuman College of Engineering and Technology, Nagpur on 8th and 9th January 2014.

- ◆ Prof. Rajesh Madarkar attended Research Scholars and Alumni Symposium 2014 at IIT Bombay on 7th and 8th March 2014.

❧ STUDENTS' ACCOMPLISHMENTS

- ◆ Thirty-three students of 2014 batch of the branch have been placed in various companies.
- ◆ Shardul Amin, Rohit Ahuja, and Abhinav Singh qualified for GATE 2014 in Production and Industrial Engineering and secured all India rank of 116, 183, and 347, respectively.

CAPACITY BUILDING ACTIVITIES

- ◆ **Lecture by Mr. Chandrashekhar Bhadsawle on 'Innovations in Agriculture'**

Mr. Bhadsawle delivered the lecture on 11th February 2014. He gave up his career in USA in 1976 and continued with farming on his ancestral agriculture land, which is located near Neral, Dist Raigarh. Other than farming, he uses the farm as an agri-tourist centre and thus he is deemed as a pioneer in agri-tourism in Maharashtra.

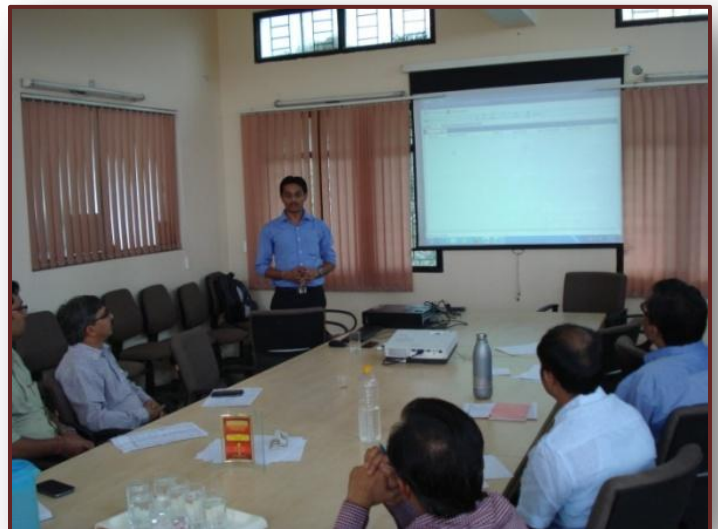
In his presentation, he showcased the innovations he has brought on his agriculture land coupled with agri-tourism making it lucrative for rural economy, thus bringing down the tendency of rural folks to migrate to urban areas. He projected a sustainable growth of the sector. Having bestowed with the award of 'Krishi-bhushan', he is actively sharing his knowledge and experience in various forums in Gujarat and Maharashtra.

- ◆ **Parent-Teacher Meet**

Parent-Teacher Meet was organized in the Department on 1st March 2014 for 8th semester students. Parents interacted with the faculty members and the HOD on issues related to student's performance in exams and other curricular activities, their behavior in class and on campus, their future plans and many more issues. In addition to their satisfactory feedback, the parents also gave valuable suggestions for improvements.

- ◆ **Training program on MDAT (MOST Application Data Acquisition Tool) Software**

A two-day training program on MDAT



(MOST Application Data Acquisition Tool) Software was organized on 13th and 14th February 2014, in the Department. Mr. Kushagra Patel, an expert from UMAS (Unique MOST Application and Solutions Pvt. Ltd) Pune, conducted the training program for the faculty members of Industrial and Mechanical Engineering departments.

- ◆ **Training program on CMM (Coordinate Measuring Machine)**

This two day training program by Mr. Patil from Mitutoyo Pvt. Ltd., Pune, was organized on 13th and 14th February 2014. It was attended by the faculty members of Industrial and Mechanical Engineering departments and was coordinated by Prof. Yogesh Deshpande.

◆ Training Programme on Simul8 (Simulation And Modeling)

This five-day training programme was organized in collaboration with Industry Institute Partnership cell (IIPC), RCOEM from 24th to 28th March 2014. The main objective of the training was to explore Simul8 user interface, build a model using Simul8 in IE environment, and explore advanced modeling techniques. Experts from Production Modeling India Pvt. Ltd., Nagpur were called to conduct the training, where more than 20 faculty members from Industrial, Mechanical and DMT participated along with PG and UG students of the department. Dr. M. M. Gupta, Dr. I. P. Keswani, and Prof. D. R. Zanwar were the coordinators of the training programme and Prof. Priya Khandekar and Prof. Rakshal Agrawal were co-coordinators.

◆ ACCRETE – a Two-Day Workshop on Entrepreneurship for 1st Years



ACCRETE 2014 was organized on 1st and 2nd February 2014 by OASIS-EDC, RCOEM. 160 BE First Year students participated in various interactive sessions and fun filled activities that tested their entrepreneurship skills. The workshop was inaugurated by the Chief Guest was Mr. Vishal Agrawal, owner of Plasto Tanks and Pipes. His key note address was on his journey as an entrepreneur. Prof. Q.H. Jeevaji spoke to the students about how the entrepreneurship world has changed over the years. Dr. M.M.Gupta motivated the students to take up entrepreneurship as a career option. Prof. M.R. Jain, Chief Coordinator, EDC, gave a brief introduction of entrepreneurship. Rohn Mallick, President, EDC, gave a report on the activities conducted by EDC over the years. The inaugural function ended with a vote of thanks by Ms. Akriti Arora, Secretary, EDC. Prof. D.R. Zanwar and Prof. Rakshal Agrawal (co-coordinator) were also present during the inauguration. This was followed by a session by Mrs. Rosina Rana on skills needed to be an entrepreneur. She also conducted a psychometric test and various other activities. The day ended with an activity called 'WHAT AN IDEA' where participants were divided into groups and had to generate an idea for a product or a service and present it. The second day started with a session on E-Commerce by Mr. Sanjay Arora. Post Lunch session was taken by Mr. Pawan Sarda. The day ended with an activity which involved generating ideas, executing, buying, selling, and marketing.

◆ **A guest lecture on QR code**

QR Code- IES organized this on 26th February 2014 for 3rd Year students. The lecture was by Prof. Chandras Chaoudhary, a Software Consultant, where he explained the ways in which QR code are being used currently for virtual stirs, marketing, business strategies, and many more. He also gave a demo on how QR codes are generated. Dr. M.M. Gupta, Prof. M.R. Jain, Prof. V.P. Suryawanshi, Prof. D.R. Zanwar, and Prof. Rakshal Agrawal also attended the session.

◆ **Pranic Healing session**

The session was organized by IES on 14th March 2014 for students of 2nd and 3rd Year. It gave them uses of pranic healing their daily life and the mantra to live a stress free life

with positive thinking. Faculty and students from other departments were also invited for this session. Prof. G.R. Potey, Prof. R.D. Madarkar, Prof. Priya Khandekar, and Prof. Rakshal Agrawal also attended the session.

◆ **Interaction with alumni**

Tarun Thappar, an alumni of the Department from 2009-10 batch, interacted with 3rd Year students on 19th March 2014. Based on his experience as a PG student in Dukes University, USA, he discussed the job opportunities and various PG programmes that students can pursue after their graduation. Dr. M.M. Gupta and Prof. Rakshal Agrawal were also involved in this interaction.

DEPARTMENT OF INFORMATION TECHNOLOGY

✦ **FACULTY CORNER**

- ◆ Prof. Madhuri Tayal attended a one-day workshop on “Natural Language Processing” by Mr. Pushpak Bhattacharya from IIT, Mumbai at RCOEM on 5th January 2014.
- ◆ Prof. Madhuri Tayal presented and the won the ‘Best Paper Award’ for paper entitled “Syntax Parsing: Implementation using Grammar Rules for English Language” at IEEE International Conference on Electronic Systems, Signal

Processing and Computing Technologies, at RCOEM, 9th to 11th January 2014.

- ◆ Prof. Rakesh Kadu delivered an expert lecture on “Training on C Programming” for 3rd Year (EE) students of Guru Nanak Institute of Engineering and Technology on 22nd January 2014.
- ◆ Prof. Nishat Ansari delivered an expert lecture on “C++ Programming” for 3rd Year (CSE/IT) students of Guru Nanak Institute of Engineering and Technology on 11th February 2014.
- ◆ Prof. Pratibha Kokardekar delivered an expert lecture on “Join Queries” for 8th

semester students of Dr. Babasaheb Ambedkar College of Engineering and Research, Nagpur on 15th February 2014.

- ◆ Prof. Rakesh Kadu delivered an expert lecture on “C/C++” for 2nd Year (ETC/ETRX) students of Guru Nanak Institute of Engineering and Technology on 21st February 2014.
- ◆ Prof. Chitra Upadhyay judged ‘Project and Model (SPITZ)’ a State level competition at Priyadarshani J. L. Chaturvedi College of Engineering, Nagpur for the category “CSE” on 26th February 2014.
- ◆ Prof. P.D. Adane, Prof. Nishat Ansari, and Prof. Chitra Upadhyay participated in the Research scholars and Alumni symposium held at IIT Bombay on 7th and 8th March 2014.
- ◆ Prof. Rakesh Kadu judged Project Competition held at Smt. Radhikatai Pandav College of Engineering, Nagpur for Category “CE & IT” on 8th March 2014.

◆ STUDENTS’ ACCOMPLISHMENTS

- ◆ Chetan Mehta, Vishnu Singh, and Nitin Singh of 6th semester attended a two-day workshop on Web Development (PHP) organized by IIT, Mumbai (Techfest) on 4th and 5th January 2014.
- ◆ Abhishek Kumar and Amol Lahane of 8th semester secured 1st position in national inter-collegiate event - A Forum of Computer Engineering and Information Technology “FARENHEIT 2K14”, by K.D.K College of Engineering, Nagpur, on 14th and 15th February 2014.
- ◆ 8th semester students of the Department were Conveners for the following events of PRATISHRUTI XIV held from 19th to 21st February 2014:
 - Mr. Swapnil Bandre for “BACKDROP”
 - Mr. Deepak Jha for “FOOTSTEPS”
 - Mr. Kapil Adatiya for “PAPER PRESENTATION”.
- ◆ Abhishek Kumar and Amol Lahane of 8th semester secured 1st position in at the following national level technical events organized at Priyadarshini College of Engineering, Nagpur, on 20th and 21st February 2014:
 - Paper Presentation Competition - “UNNATI 14”.
 - “TechnoStorm-14”, Paper Presentation Competition under the banner of Tele-Era.
- ◆ 12 students participated in national level project competition organized by Smt. Radhikatai Pandav college of Engineering, Nagpur on 8th March 2014 in association with ISTE students’ chapter.
- ◆ 14 students participated in “Pratikruti” a national level project competition organized by YCCE, Nagpur on 19th March 2014.
- ◆ 10 students presented papers in national conference “SPANDAN-2014” organized by Department of Computer Technology, YCCE, Nagpur on 21st and 22nd March 2014.
- ◆ Sarthak Sharma of 4th semester participated in national round of Indo-US Robo League 2014 conducted by

Technophilia Systems in association with Robotics and Computer Applications Institute of USA, at IIT Bombay, during Aavarti 2014, organized by EESA IIT Bombay on 22nd and 23rd March 2014.

- ◆ Deepak Mahakale of 8th semester participated in the national level technical Fest Technodeon 2K14 “CYBORG” organized By KITS, Ramtek.
- ◆ Megha Rajput, Priya Nagdev, and Anuja Fhole of 4th semester and Pooja Chokhani, Priyanka Kewalramani, Sonika Poly, Deepali Jain, and Anjali Nair of 8th semester were members of Cricket college team which secured 2nd position in RTMNU Inter-branch Cricket tournament.
- ◆ Radhika Mohta of 6th semester and Deeksha Tiwari of 8th semester were members of basketball college team and stood 1st in RTMNU Inter-collegiate Basketball Tournament.
- ◆ Rishabh Rastogi of 4th semester was part of college TT team which secured 2nd position in RTMNU Inter-collegiate Table Tennis Tournament.



- ◆ An industrial tour to Pune-Goa was arranged for 3rd Year students from 5th to 12th January 2014. Prof. Chitra Upadhyay, Prof. Chetna Thaokar, and Prof. Purushottam Assudani accompanied 59 students to GS Labs Baner, Pune.



✿ CAPACITY BUILDING ACTIVITIES

- ◆ An industrial tour to Hyderabad was arranged for Final Year students from 4th to 9th January 2014. Prof. Pratibha Kokardikar, Prof. Ashish Chandak, and Prof. Voomika Manasaja along with 47 students visited Mazik Tech Solutions Hyderabad.
- ◆ A seminar on “Understanding Placement Procedure for Companies” by Mr. Anuj Jajoo, Campus Connect, E & R, Infosys Limited Pune was organized for 3rd and Final year students on 28th January 2014.
- ◆ Prof. Nishat Ansari and Prof. Rakesh Kadu coordinated a two-day national workshop on “Networking”. The workshop organized by the Department with Network Bulls and ACM IIT, Delhi was the first stage of National Network

Security Championship and was attended by students of various colleges on 15th and 16th February 2014. Mr. Vipin Kumar and Mr. Vijay Singh were the experts. Kapil Adatiya, Yash Agrawal, Prakashchandra Pande, Viresh Dhawan, Suyash Kawna, and Ganesh Thakur were the student coordinators for the same.

- ◆ A Parent-Teacher Meet of 8th semester students was organized on 1st March 2014.
- ◆ A guest lecture on “Understanding Role of IT in Environmental Studies” by Dr. S. K. Goyal, Principal Scientist and Incharge EIRA Division, NEERI Nagpur was organized on 22nd March 2014.



◆ BEYOND ACADEMICS

- ◆ A three day event “Colosseum” under Semicolon Tech club was organized by IT and MCA Dept from 31 January to 2 February 2014.

DEPARTMENT OF MECHANICAL ENGINEERING

◆ FACULTY CORNER

- ◆ Prof. P. B. Shiwakar and Prof. S. S. Joshi attended training on Simul8 from 24th to 29th March 2014 organized by Industrial Engineering Department, RCOEM.
- ◆ Prof. P. B. Shiwalkar and Prof. S. R. Mohair attended training on MOST organized by the Department of Industrial Engineering, RCOEM, Nagpur, from 11th to 14th February 2014.
- ◆ Prof. S. A. Patil attended a two-day tutorial programme on “Remnant Life

Assessment (RLA) of Steam Turbine”, on 9th and 10th January 2014 at Central Power Research Institute, Thermal Research Centre, Koradi, Nagpur.

- ◆ Prof. A. M. Andhare attended a workshop on “CFD- Fundamentals and software training on ANSYS ICEM-FLUENT 14.5”, at VNIT Nagpur from 26th February to 2nd March 2014.

◆ STUDENTS' ACCOMPLISHMENTS

- ◆ M. Mukesh, a student of 8th semester secured 1st position in 4th National Solid

Modelling Contest held at Vasavi College of Engineering, Hyderabad in association with Siemens PLM software

- ◆ Twenty students of the Department excelled in GATE 2014, while five students cracked CAT. Manas Baxi of Final Year secured 93.5 Percentile and has received interview calls from 7 IIMs.
- ◆ Anurag Sahu, Abhishek Choubey, and Amritpal Singh Bhamra of 8th semester won the 1st prize in technical paper presentation organized at S.B. Jain Institute of Technology Nagpur. They presented a paper on their Final Year project entitled “Design and fabrication of Plastic Bottle Crusher” which was guided by Prof. Y. M. Sonkhaskar.

◆ CAPACITY BUILDING ACTIVITIES

- ◆ Guest lecture on “Engineering Challenges in Manufacturing Industry” by Dr. N. P. Deshpande, Head, Program Implementation for International Division General Motors, Melbourne, Australia was organized on 8th February 2014.
- ◆ Workshop on “Cool Hydraulics for improved Productivity” was organized for the students of M.Tech HPE, in which 38 students participated. The expert speakers for the workshop were Mr. Sagar Kondaguli and Mr. Vren Chandak from Indial Oil; Mr. Manoj Laulkar and Mr. Harshal Dhage of Spankraft Hydro systems; Mr. Vishwakarma and Mr. S.C. Gharpure from Minar Hydro systems.

Prof. G. R. Nikhade and Prof. R.U. Patil also took a session on ANSYS. Dr. S.D Moghe and Prof. P. B. Shiwalkar coordinated the activity

- ◆ MOU was signed between Department of Mechanical Engineering and Star Circlips Ltd. on 11th March 2014, which will facilitate industrial visits, students’ projects, joint training programme and research projects.
- ◆ A guest lecture on the topic “Going Beyond Curriculum to Meet Industry Requirements” was delivered by Mr. N S Gawhane, DGM Learning and Development, Thyseenkrupp Industries India Pvt. Ltd., Pune on 23rd January 2014.
- ◆ A guest lecture on “Expectations of Industries from Fresh Engineers” by Mr. Sudhir Singh Sorat, Senior Vice President, Reliance Industries Ltd, Jamnagar was held on 29th January 2014
- ◆ Following two industrial visits coordinated by Prof. R.M. Waghmare to give practical exposure to the students:
 - 4th semester students visited Pench Hydroelectric power plant on 24th March 2014.
 - M.Tech Heat Power students visited Adani thermal power plant at Tiroda, District Gondia.
- ◆ CREO training for the students of the Department has commenced. This is the 3rd batch of students. 50 students have already been trained in the previous 2 batches. The training programme is coordinated by Prof. Y. M. Sonkhaskar

BASIC SCIENCES

DEPARTMENT OF APPLIED CHEMISTRY

❖ FACULTY CORNER

◆ The Following faculty members presented research papers at International Conference GOLD –CT 2014, Jalgaon, 6th-8th February 2014

- Dr. A. V. Bharati presented “PM-1 and Polycyclic, Aromatic Hydrocarbon in heavy traffic site at Nagpur”. He judged a poster presentation competition at the same conference.
- Ms. Sanjogta Meshram presented a paper entitled “One pot synthesis of Different Fatty acids Methyl Ester, Characterization and Anti Microbial Activity”
- Dr. C. P. Pandhurnekar presented “Volumetric, Acoustic and optical properties of Aqueous binary mixtures of different glycol ethers at T/K=(278.15 and 288.15)” and “Synthesis, Characterisation, Pharmacological activities study of different Azo dye consisting coumarin precursor”
- ◆ Dr. A.V. Bharti was Local Enquiry Committee member at Jhulelal Institute of Engineering and Technology, Nagpur.
- ◆ Prof. Ajay Agarwal, Dr. Mahendra Kadu, Dr. C. P. Pandhurnekar, and Ishwardas

Muthereja's following papers were published:

- “Removal of Different Metal Ions from Aqueous Solution using Coal fly ash and Chitosan: Adsorption, Kinetic and Leaching Behavior” in *J. Int. Environmental Application & Science*, 8(4): 490-502.
- “Langmuir, Freundlich and BET Adsorption Isotherm Studies for Zinc ions onto coal fly ash”, in *International Journal of Application or Innovation in Engineering & Management (IJAIEEM)*, 3(1): 64-71.
- “Characterization of coal fly ash and its ability to remove Ni²⁺ ions from aqueous solution”, *The Holistic approach to Environment*, 4(1): 17-29.
- ◆ Following research papers were presented in the International Conference on ‘Global Opportunities for Latest Developments in Chemistry and Technology-2014 (GOLD CT 2014) from 6th February to 8th February 2014 at Department of Chemistry, North Maharashtra University, Jalgaon:
 - **Chandrashekhkar P. Pandhurnekar**, Sudhakar S. Dhondge, Dilip V. Parwate, and Himani N. Chopde

presented “Volumetric, Acoustic and Optical Properties of Aqueous Binary Mixtures of Different Glycol Ethers at $T/K = (278.15 \text{ and } 288.15)$ ”.

- Himani N. Chopde, Jyotsna S. Meshram, **Chandrashekhar P. Pandhurnekar** presented “Synthesis, characterization, biological evaluation of Schiff base

via Betti’s protocol and β -lactams containing pyrazolone precursor”.

- Ekta M. Meshram, **Chandrashekhar P. Pandhurnekar**, Himani N. Chopde and Rameshkumar J. Batra presented “Synthesis, characterization, pharmacological activities study of different azo-dye consisting coumarin precursor via Claisen-Schmidt condensation”.

DEPARTMENT OF HUMANITIES

❖ FACULTY CORNER

- ◆ Prof. Vinita Virgandham has submitted her Ph.D. thesis in English Literature on “The concept of authority, rebellion, and identity in the novels of Taslima Nasrin” to RTMNU.
- ◆ Dr. V.H. Asudani, Prof Monika R. Seth, and Prof. Akanksha Deshpande presented a research paper entitled, “Awareness about mobile purchase among consumers: A survey” in national conference “PINNACLE 2014” organized by Department of Management and Technology, S.B. Jain Institute of Technology, Management and Research, Nagpur on 1st February 2014.
- ◆ The following papers were presented in the 2nd National Conference - COLLOQUIUM organized by DMT - RCOEM, Nagpur on 3rd and 4th March 2014:

- Prof Akanksha Deshpande, Prof Monika Seth, and Dr. V.H. Asudani presented “Use of Plastic Bags in Super markets— A survey”
- Dr. V.H. Asudani, Prof Monika R. Seth, and Prof. Akanksha Deshpande presented “Challenges before libraries in transitional era(I.T Era)”
- ◆ Dr. V.H. Asudani presented paper entitled “Relevance of Sindhi Sufi Poetry in Modern times” in one day national seminar on “Sufism in Delhi” organized by Central Sahitya Akademi and Sindhi Akademi Delhi on 22nd March 2014.
- ◆ Dr. (Ms.) Deepshikha Mehra judged the inter-collegiate debate competition at Horizon 2014 on 28th February 2014 at Priyadarshini College of Engineering, Nagpur.
- ◆ The following papers were presented in two-day international conference

“CONFLUENCE V” organized by Tulsiram Gaikwad-Patil College of Engineering and Technology, Nagpur, on 21st and 22nd February 2014.

- Prof. Rebecca Paul Gaigole, Dr. V. H. Asudani, and Prof. Monika R. Seth presented “Grammatical Errors; A Comparative study of EFL / ESL undergraduate Engineering students”
- Prof. Akanksha Deshpande, Dr. V. H. Asudani, and Prof. Monika R. Seth presented “Dramatics for the Development of Language Skills”
- ◆ Dr. V. H. Asudani presented a paper entitled, “Artistic expression of the image of Sindh” in “2nd International Conference on “Sindh through the centuries” organized by SMI University, Karachi, Pakistan from 24th to 26th March 2014. He was invited for the conference.
- ◆ Prof. Akanksha Deshpande’s research paper entitled, “Internet addiction: It's impact on Emotional Intelligence and Locus of Control on Individuals: A Review of Literature” was published in *International Multidisciplinary Research Journal Indian Streams Research Journal*, 4/2, March 2014, pg.1-11, ISSN No : 2230-7850 (Impact Factor : 2.1506(UIF)).
- ◆ Dr. V.H. Asudani has been nominated as a member of Maharashtra Rajya Sindhi Sahitya Akademi for three years by Government of Maharashtra as recognition to his literary achievements.
- ◆ Dr. V.H. Asudani participated and anchored the following Meets:

- All India Sindhi Poets’ Meet organized by Sindhi Sahitya Sabha Nagpur on 9th March 2014.
- All India Hindi Poets’ Meet organized by Blind Graduates Forum of India, Nagpur Chapter on 10th March 2014.

- ◆ Dr. V.H. Asudani’s Hindi poetry recital was broadcast in weekly Hindi program on All India Radio, Nagpur on 10th March 2014.
- ◆ Dr. V.H. Asudani’s interview was broadcast in weekly popular talk show “Good Morning Nagpur” on Vividh Bharti Channel of All India Radio, Nagpur on 24th March 2014.
- ◆ Dr. V.H. Asudani was invited as a guest by Sanskar Bharti Satna, M.P to participate in its New Year program on 30th March 2014.

✿ CAPACITY BUILDING ACTIVITIES

- ◆ Dr. Deepshikha Mehra organized a guest lecture by Mr. Nikhil Sharma (alumni of EN department, 2012 batch) on 3rd March 2014. Nikhil spoke on “Communication for successful placement and at work place” to the students of Technical Communication, CSE Department. This interactive session lasted for 3 hours.
- ◆ Prof. Vinita Virgandham organized a guest lecture by Mr. Raveesh Jaiswal (alumni of Civil Department 2013 batch) on Communication Skills on 1st April 2014 for the students of Technical Communication of IT.

❖ BEYOND ACDEMICS

◆ REEF (Ramdeobaba College Engineers For Environment Forum)

The environment club of the College (hosted by Department of Humanities, Mentor Faculty – Dr. Deepshikha Mehra) carried out the following activities in the quarter:

1. **Education tour to Tadoba-Andhari Tiger Reserve – 20th to 23rd February 2014.** New members of REEF were taken on this exposure trip where they learnt various aspects about wildlife conservation. The members and mentor faculty also clicked wildlife photographs which were sent for “The Tadoba Inheritance Photography contest” organized by international organization - Sanctuary Asia and Government of Maharashtra.

2. Bird conservation steps:



REEF members contributed in bird conservation by removing ‘manja’ from trees in Raj Bhavan. Manja is one of the main reason for high mortality among birds. The authorities at Raj Bhavan provided the students with large bamboo

poles to remove the manja. This project was undertaken for three day from 17th to 19th January 2014.

3. REEF members have started the process of constructing bird houses and have set up of bird baths to meet the shelter and water needs of birds on campus. The process was initiated on 15th March 2014.
4. **Tree plantation on birthdays:** REEF members have undertaken the project of planting a tree on campus on their birthdays. These are taken care of by the REEF members who planted it. This project was initiated on 10th February 2014.
5. **REEF members in organizing of 27TH PAKSHI MITRA SAMELAN or the Birders’ Meet:**



This Meet was organized by Wild-CER on 4th and 5th January 2014. REEF members volunteered in the organization of the conference in the registration, hospitality and photography committees.

6. REEF Green Ambassador – Sudip Banerjee’s article entitled “Engineers with A Mission of Environment Conservation” published in Infinity+, the magazine of IT Department.

◆ READERS' REVERIE

The readers' club of the College (hosted by Department of Humanities, Mentor Faculty – Prof. Vinita Virgandham) carried out the following activities in the quarter:

- ◆ It initiated **Youth Parliament** as part of its objective to promote reading, writing and speaking skills among the students. Youth Parliament was first of its kind to invigorate the young minds to comprehend the drafting of bills, tabling and defense in the form of a question and answer session. Representatives of seven branches presented bills on various topics and defended them in the question answer round. The bills presented were Zero Waste Revolution Bill by Electrical; CSE presented National Security Bill; Electronics and Communication presented The Wi-fi Provision Bill, 2014; Mechanical presented Genesis of Employment and Improving

Employability Act, 2014; IT presented Stock Subsidy Bill; Civil presented Unification Code Bill for Secondary Education; and a bill on 'Establishment and maintenance of state of the art national sports institution' was presented by EN. Director, DMT Prof Q H Jeevaji was the Convener of the Parliament. Dr. V.H. Asudani and Dr. Deepshikha Mehra were the Observers. The winners were Electronics Department.

- ◆ As a part of the club's off line monthly activity for First Year students, a creative writing competition was held in March in which 30 students participated. The competition was to stimulate the students to organize their thoughts and articulate them through the rubric given in just 30 minutes. The winners of the competition were Rohan Dekate, Ruchita Patil, and Jayneeta Sinha (in that order). The best stories selected were posted on Readers' Reverie's website.

DEPARTMENT OF PHYSICS

- ◆ Prof. Shilpa Kulkarni was awarded a Ph.D. by VNIT, Nagpur in February 2014 on "Modeling and Simulation of highly sensitive adsorption based gas sensors using silica nanowire" under the guidance of Dr. S. R. Patrikar, VNIT, Nagpur.
- ◆ Dr. (Mrs.) C. P. Joshi co-authored and presented three papers at 'National Conference on Luminescence and its Applications (NCLA-2014)', organized by

Rani Durgavati University, Jabalpur, from 5th to 7th February 2014.

- ◆ Dr P. R. Gandhi delivered a guest lecture on "Structure Analysis Techniques" on 25th February 2014 at Ordnance Factory Institute of Learning Ambazari, Nagpur.
- ◆ Dr. Mrs. C. P. Joshi co-authored a paper entitled "Wet chemical synthesis of Eu²⁺ activated fluoro- elpasolite" in *Journal of Alloys and Compounds*, 599

- (2014), 49–52, available online, 26th February 2014.
- ◆ Dr. (Mrs.) Renuka Nafde delivered a guest lecture on “Nanotechnology and Automotive applications” on 27th February 2014 under FDP in Govt. Polytechnic, Nagpur.
 - ◆ The following presentation were made at ‘National Conference on Advanced Research Trends in Sciences (NCARTS-14)’ organized under TEQUIP at GHRCOE, Nagpur from 28th February to 1st March 2014
 - Dr. (Mrs.) C. P. Joshi delivered a plenary talk on “Quantum Cutting Near Infrared Emitting Phosphors for Silicon Solar Cell”.
 - Dr. G. G. Sahasrabudhe coauthored a poster presentation entitled “Critical Exponents in Coupled Logistic Map Lattice with Delayed Linear Nearest Neighbor Coupling”
 - ◆ Dr. Renuka Nafdey presented a paper entitled “Synthesis and Electrical Conductivity of Polyaniline Composite” at UGC sponsored National Conference on Advanced Materials (NCAM-2014) on 1st March, 2014, organized at Nabira Mahavidyalaya, Katol, Nagpur in association with Luminescence Society of India. It was published in the proceedings too [ISBN: 9789381432709].
 - ◆ Dr. P. R. Gandhi delivered a guest lecture on “Nanoscience” on 15th March 2014 at Dr. Babasaheb Ambedkar College of Engineering and Research Wanadongri, Nagpur.
 - ◆ Dr. Renuka Nafdey and Dr. P. R. Gandhi attended a Faculty Development Programme on “Entrepreneurship Development” sponsored by DST, NIMAT, NSTEDB, Govt. of India, New Delhi held at Maharashtra Centre for Entrepreneurship Development, Udyog Bhavan, Civil lines, Nagpur from 12th to 24th March 2014.
 - ◆ Dr. (Mrs.) C. P Joshi co-authored and presented a paper in National Conference on Advances in Measurements and Techniques, IARPNC 2014 at BARC, Mumbai from 19th to 21st March 2014.
 - ◆ Dr Shilpa Kulkarni presented a research paper entitled “Highly sensitive optical gas sensor for industrial safety based application”, in National Conference Advances in Explosives and Propellants, AEP-2014 organised by Department of Chemical Engineering, VNIT and DRDO on 22nd March 2014.
 - ◆ Dr G. G. Sahasrabudhe chaired the session in Applied Sciences in Spandan 2014, a National Conference on Advances in Engineering, Technology and Applied Sciences, organized annually by Department of Computer Technology, YCCE, Nagpur on 21st and 22nd March 2014.
 - ◆ Prof. (Mrs.) Jyoti Ghuishe co-authored and presented a paper entitled “Synthesis and I-V characterization of MWCNT reinforced polyaniline/Zno heterojunction for photovoltaic applications” at international conference on Energy Efficient LED Lighting and Solar

Photovoltaic Systems, IIT Kanpur, 27th to 29th March 2014.

- ◆ Dr. G.G. Sahasrabudhe, Dr. S.M. Pande and Dr. (Mrs.) C.P. Joshi were reviewers for papers submitted to International Conference on Electronics Systems, Signal Processing and Computing Technology (ICESC-2014) held at RCOEM, Nagpur from 9th to 11th January 2014.

Dr. G.G. Sahasrabudhe and Dr. R.U. Tiwari conducted the annual examination GS-2014 held by the Tata Institute of Fundamental Research, Mumbai for entrance to Integrated M. Sc. and Ph. D programmes in Physics, Chemistry, Mathematics, and Biological and Environmental Sciences. About 450 students appeared for the examination.

DEPARTMENT OF PHYSICAL EDUCATION

❁ FACULTY CORNER

- ◆ Dr S. Dogra's paper entitled "Socio-Economical factor and its Effect on Sports Performance at National Level" was published in *Velocity- International Journal of Physical Education, Sports, Health & Recreation*, March 2014 edition.
- ◆ Dr. S Dogra's paper entitled "Effect of Political Factor on Sports at International Level" was selected for *International Educational E- Journal*, ISSN 2277-2456.
- ◆ Dr. Amit Anurag's paper entitled "Sports Equipment and Technology: Sports for All" was published in the proceedings of National Seminar on "Management of Physical Education and Sports" organized by PGTD, Nagpur (ISBN No: 978-93-83183-30-2).
- ◆ Dr. Amit Anurag's paper entitled "The media Involving Changes face of sports" of published in the proceedings of UGC Sponsored National Conference on "The

Role of Physical Education, Sports and Media in the Era of Post Globalization: Accepting Challenges and Responses" organized by Hislop College, Nagpur on 17th and 18th January 2014 (ISBN No: 978-93-82351-31-3).

- ◆ Dr. Amit Anurag attended Refresher Course in Physical Education from 5-25 March 2014.
- ◆ Prof. Nitin Jangitwar was appointed as Coach of Nagpur University Handball Team for all India University Tournament held at Jaipur, Rajasthan, from 28th December to 5th January 2014.
- ◆ Prof. Nitin Jangitwar attended National Seminar on "Referend Trends in Yoga and Physical Education" on 22nd February 2014.

❁ STUDENTS' ACCOMPLISHMENTS

- ◆ College Cricket Team finished as runners-up in the Intercollegiate Cricket

Tournament organized by Vidarbha Cricket Association (VCA). The final match was played on 15th March between RCOEM and VMV College, Nagpur at Kalamna Cricket Ground.

Police Line takli ground. Dr. Dhananjay Velulkar, Director of Sports and Physical Education, RTMNU was the Chief Guest of the inaugural function. Dr. V.S. Deshpande also graced the occasion.

- ◆ Inter-branch Annual Athletic Meet was organized on 17th and 18th January 2014 at

FINAL POSITIONS

Category	Best Athlete	Branch and Year
Student	Rajneesh Gurbani	CIVIL
	Mrunal Makde	EN
Staff	Dr. Manish Chauhan	EC
	Dr. Sunita Dhote	MBA



EVENT	PLACE	NAME	BRANCH and Year
100mt (m)	I	Sharang Pande	CIV
	II	Divyprakash Singh	EN
	III	Kunal Dubey	CIV
100 mt (w)	I	Shruti Ambulkar	EC
	II	Anushree Mishra	EC

	III	Priyanka Jiaswal	CSE
200 mt (m)	I	Rajneesh Gurbani	CIV
	II	Sharang Pande	CIV
	III	Rajat Bopardikar	CSE
200 mt (w)	I	Shruti Ambulkar	EC
	II	Nidhi Atre	EC
	III	Priyanka Jiaswal	CSE
400 mt (m)	I	Rajneesh Gurbani	CIV
	II	Prakash Mishra	EN
	III	Aditya Ranjan Singh	EC
400 mt (w)	I	Mrunal Makde	EN
	II	Nidhi Atrey	EC
	III	Maria Yusuf	CSE
800 mt (M)	I	Prakash Mishra	EN
	II	Kunal Dubey	CIV
	III	Bhairav Tanti	EN
800 mt (W)	I	Mrunal Makde	EN
	II	Sanskriti	EC
	III	Maria Yusuf	CSE
1500 mt (m)	I	Kunal Dubey	CIV
	II	Bhairav Tanti	EN
	III	Prakash Mishra	EN
Broad Jump(m)	I	Rajneesh Gurbani	CIV
	II	DivyaPrakash Singh	EN
	III	Sharang Pande	CIV
Broad Jump(w)	I	Anushree Mishra	EC
	II	Priyanka Jaiswal	CSE
	III	Minakshi Devangan	EDT
Shot put (m)	I	Sharukh Khan	EC
	II	Sharad Singh	MCA
	III	Gaurav Multani	EN
Shot put (w)	I	Mrunal Makde	EN
	II	Anushree Mishra	EC
	III	Gauri sarpotdar	EN
Discus Throw(m)	I	Pratik Bhutda	EC
	II	Abhimanyu Singh	EP
	III	Shahdaab Tahil	CIV
Javelin (M)	I	Shikhar Kharche	IND

	II	Palash Agarwal	CSE
	III	Avinash Tripathi	EN
4x100 mt relay(m)	I	CSE	
	II	EC	
	III	IND/MECH	
4x 100 mt relay(w)	I	EC	
	II	EN	
	III	CS	
4X400 mt relay (M)	I	CIV	
	II	EN	
	III	CS	

◆ The Department organized Inter-Branch Sports Cup Tournament (men and women) as annual activity where 17 games

were included. The winner branches and players were felicitated in PRATISHRUTI in February 2014.

SPORTS CUP OVERALL-CHAMPIONSHIP 2013-14

Trophies	Men/Women	Winner
Sports Cup	Men	MECH
Sports Cup	Women	EN
Fair-Play award	Men	IT

BEST SPORTSPERSON OF YEAR 2012-13

Best sportsperson	Branch and Year
Mrunal Makde	EN IV
Kisley Rai	MECH IV
Rajneesh Gurbani	CIV IV

WINNERS OF INTER- BRANCH SPORTS CUP 2013-14

Games	Men/Women	Winner Branch	Best Players	Branch and Year
Badminton	Men	CIV	Ankur Gahlot	EC III
Badminton	Women	EN	Sharwari Harode	EC III
Table-Tennis	Men	EDT	Dhananjay Shrivastav	EDT III

Table-Tennis	Women	CS	Suvidha Maheswari	CS II
Chess	Men	CS	Akshay Patil	CS III
Chess	Women	EN	Shrutika Prachand	EN II
Basketball	Men	MBA	Kisley Rai	Mech IV
Basketball	Women	EN	Samiksha Ambekar	EN IV
Volleyball	Men	EC	Arpit Ganeriwal	Ec IV
Volleyball	Women	EN	Priya Solanki	EN II
Cricket	Man of the Match	MCA	Akash Jha	MCA I
	Player of the Tournament		Rajneesh Gurbani	CIV IV
Cricket	Women	MBA	Priyanka Mishra	MBA II
Athletics	Men	CIV	Rajneesh Gurbani	CIV IV
Athletics	Women	EC	Mrunal Makde	EN IV
Throw ball	Women	CS	Namita Nisal	CS III
Football	Men	MECH	Parminder Singh	MECH IV
Tag-Rugby	Men	MECH	Shikhar Nima	Mech IV

❖ BEYOND ACADEMICS



“Yoga Retreat - to help students in becoming good human beings”.

❖ NATIONAL SERVICE SCHEME (NSS)



- ◆ The Department organized a week long Yog –Pranayam Camp from 10th to 14th February 2014 under the guidance of trained yoga teachers Col. Pratap Jog and Mrs. Padmini Jog for First Year students.
- ◆ A one day workshop by Shri Gopala Vrinda Pala Dassa of Akshayapatra Foundation, Bhilai was organized on 1st March 2014 for First Year students on



The National Service Scheme (NSS) Unit of our college organized its annual social awareness event PRERNA 6.0-Ek Prayas from 27th to 30th January 2014 under which many activities were organized such as mega health checkup camp in collaboration with Life Line Blood Bank;

Street Play on social issues; Brainteaser (quiz competition); paper presentations on social issues; tech education to school children; Orator of the Year; cleanliness drive at Gumthada Village; and painting competition. The Chief Guest of the function was Dr. John Antony Menachery, Principal, Matru Sewa Sangh Institute of Social Work

POST GRADUATE PROGRAMMES

DEPARTMENT OF MANAGEMENT TECHNOLOGY

❁ FACULTY CORNER

- ◆ Dr. Neeta V. Shah is appointed on the Board of Reviewers of International Journal-South Asian Journal of Human Resources Management.
- ◆ Dr. Neeta V. Shah delivered a Keynote address and Chaired a session on “Changing Trends and Paradigms for Business Excellence” at international

conference conducted by Tirpude Institute of Management Education (TIME), Nagpur on 7th February 2014.

- ◆ Dr. Sunita N. Dhote was appointed as adjudicator of India Book of Records for Longest Book Reading Marathon performed by Mr. Sunil Wagnare at Geeta Mandir on 15th February, 2014
- ◆ Prof. Ruchi Sao has completed her MA in Psychology with specialization

in Counseling from Indira Gandhi Open University.

- ◆ The following faculty members presented papers at national conference on "Emerging Strategies in the present day scenario for sustainable growth and competence" organized by DMT, RCOEM on 3rd March 2014.

- Dr. Neeta V. Shah presented "Sustainability in Management Education".
- Dr. Gayathri Band Prof. Ruchi Sao presented "Study of impact and identification of gender on the big 5 Personality traits"
- Dr. Kanchan Naidu presented "Non Performing Assets of Union Bank of India with reference to a particular Branch, Nagpur for the year ended March 2013"
- Dr. Abhijeet Agashe presented "A Study of Individuals Preference towards Second Employment"
- Prof. Prashant Chajjer, Prof. Vandana Gandhi, and Prof. Vishal Mehta presented "Study of Contribution of Small Shopkeepers / Businesses towards Environmental Sustainability Vis a Vis Corporates"
- Dr. Sunita Dhote and Dr. Rupesh Pais presented "Study of CAMEL Analysis of Selected Commercial Banks"

- Dr. Sunita Dhote and Dr. Chandan Vichoray presented "Corporate Social Responsibility : An Comparative Analysis Of ICICI Bank & HDFC Bank"
- Dr. Sunita Dhote and Dr. Chandan Vichoray presented "Pre & Post Acquisition Performance of Centurion Bank of Punjab by HDFC"
- Dr. Kanchan Naidu and Prof. Kanak Wadhvani presented "Study on executive continuity model of 5 selected companies"
- Dr. Kanchan Naidu presented "A study on Opinion of investors towards Mutual funds investment in India"
- Dr. Kanchan Naidu, Prof. Vandana Gandhi, and Vishal Mehta presented "A Study of Returns Generated on Nifty for an Investment Horizon of 5 Years"
- Prof. Shravan Chandak and Prof. Prof. Pritam Bhadade presented "Study on executive continuity model of 5 selected companies"
- Prof. Shravan Chandak and Prof. Pritam Bhadade presented "A study on cloud computing"
- ◆ Dr. Gayathri Band presented the following papers
 - "Corporate Social responsibility: Challenges and opportunity" at ICCSR

Sponsored National Seminar on "Ethics in changing Global Business Environment" organized by Dept of Commerce, PSGR Krishnammal College for Women, Coimbatore on 11th February, 2014

- "Talent - A part of value chain" at national conference on "Entrepreneurship and Socio Economic Development" organized by Xavier Institute of Business Administration, Palayankottai on 12th and 13th February 2013 (ISBN No:978-81-928901-0-4, Pg No-50-58).

- "E-Banking Emerging trend in banking business" at ICCSR Sponsored National Seminar on "New Paradigms and perspectives in business Excellence" organized by Dept of Commerce, P B Siddhartha College of Arts of Science, Vijaywada from '31st January to 2nd February 2014

- ◆ Dr. Gayathri Band, Prof. Ruchi Sao and Prof. Kanak Wadhvani attended a FDP on Case Writing at IMT, Nagpur, conducted in association with Ivey School of Business.

◆ STUDENTS' ACCOMPLISHMENTS

- ◆ ICICI Securities, Kotak Mahindra Bank, Spacewood Janalakshmi Financial Services offered jobs to 15 students with a salary of 3 lacs per annum + incentives

- ◆ Three students of Department viz. Ms. Payal Parhad, Ms. Sonal Awdhiya and Ms. Nidhi Laddhad has been selected by Persistent as Data Analyst for special live project.

◆ CAPACITY BUILDING ACTIVITIES

◆ Power Shift / Energy Shift

This was an inter-collegiate paper presentation competition. Three tracks were designed for the competition viz; Finance, Marketing, and Human Resource in which students from Master in Applied Management also participated with full zeal and enthusiasm.

◆ 'Samvaad-2014' on 22nd March 2014

T&P Cell organized this event to bridge the gap between industry and academia. HR Heads of 25 different companies participated including KEC International, Mahindra & Mahindra, L&T, Facor Steel, Orange City Water, Ajmera Tyres, Zim Laboratories, Minex Metallurgical, Murli Industries, SMS Infratech, Strata Rolls, Infocepts, eBix, KlouData, Excellon Software, Crazy Engineers, etc.

◆ National Conference "COLLOQUIUM 2014"

The 2nd National Conference on "Emerging Strategies in the Present day Scenario for sustainable growth and competence" was inaugurated on 3rd March 2014 by Chief Guest - Mr. Sandip Ghose, Director, NISM, Mumbai and Guest of Honor - Mr. K

Sukumaran, Dean, NISM, Mumbai. Dr. Neeta Shah delivered the welcome address, while the presidential address was given by the Prof. Q H Jeevaji. Apart from the dignitaries, Dr. Kanchan Naidu, Convener and Ms. Indu Agrawal, Officer on Special Duty, RCOEM was also present. The Vote of

Thanks was proposed by CVSS Vivek, President, DMT Students' forum. The inauguration was compared by the Secretary of the Conference Dr. Gayathri Band. The conference received overwhelming response where more than hundred participants registered for the conference.



◆ GYANSAROVAR

Gyansarovar was organized from 4th to 7th March 2014 by the students and for the students to provide a platform to develop their creative and management skills. Events like Business Quiz, Kotler's yard, Dance, Singing, Box Cricket, Volleyball, and guest lecture by Mr. Amit Pande from Facor Steel and Music Therapy workshop of Mr. Rahul Joshi was conducted. More than 300 students participated in the event.

◆ Guest lectures:

The Department organized the following guest lectures:

1. Mr. Sandeep Ghose spoke on "Strategies for Sustainable Development"
2. Mr. N. Sukumaran spoke on "Risk Management"
3. Mr. Abhitabh Meshram spoke on "My Entrepreneurial Journey"
4. Mr. Rohan Pandey spoke on "NLP"

5. Mr. Chandrahas Choudary talked about “QR Codes”
6. Mr. Vishram Jamdar, Dr. Vinayak Deshpande, CA Sandeep Jotwani, and Mr. Ashit Sinha were part of panel

- discussion on “Indian Economy Current Scenario – Road Ahead”
7. Mr. Sanjay Arora spoke on “Network Marketing”

DEPARTMENT OF COMPUTER APPLICATION

✦ FACULTY CORNER

- ◆ Prof. Punam Khandar and Prof. Uzam Ali presented the following papers in International Conference on Computer, Communication Technologies 2K14 Hyderabad, on 28th and 29th March 2014. The papers were published in *International Journal of Advances in Computer, Electrical, and Electronics Engineering*, March 2014, 3/ 1; spl. issue of IC3T 2014, ISSN: 2248-9584:
 - “Data Mining Approach For Network Intrusion Detection System” (pp.109).
 - “Data Mining With Neural Networks” (pp. 147).
- ◆ Prof. Shruti Rakhunde’s paper were published in the following journals:
 - “Reversible Data Hiding using Color Visual Cryptography”, *International Journal of Advance Foundation and Research in Computer (IJAFRC)*, 2/2, ISSN 2348-4853, February 2014.
 - “Reversible Data hiding using visual cryptography: A Review”

International Journal of Innovative Research in Computer and Communications Engineering, 2/1, ISSN (online): 2320-9801 ISSN (print):2320-9798, January 2014.

- ◆ Prof. Prajakta Pande and Prof. Anand Padwalkar’s paper entitled “Internet of Things-A Future of Internet: A Survey”, was published in *International Journal of Advance Research in Computer Science and Management Studies (IJARCSMS)*, 02/02. ISSN (Online): 2321-7782, ISSN (Print): 2347-1778, February 2014.
- ◆ Prof. Deepali Bhende’s paper entitled “Review of Defence mechanism Against Gray Hole and Black Hole Attack in MANETs” was published in *International Journal of Engineering Research and Technology (IJERT)*, 3, ISSN: 2278-0181, January 2014.
- ◆ The following faculty members presented their papers in International Conference on Advances in Engineering and Technology – 2014 (ICAET-14) organized by Anjuman College of Engineering and Technology, Nagpur on 8th and 9th January 2014. The papers were

published *IOSR Journal of Computer Science* (special issue), January 2014, e-ISSN: 2278-0661, p-ISSN: 2278-8727:

- Prof. Shruti Rakhunde presented “Real Time Data Communication Over full Duplex Network Using Web socket”(pp 15-19).
- Prof. Deepali Bhende presented “Managing the Threat of Denial of Service Attacks in MANETs” (pp 42-45).
- ◆ Prof. Anand Padwalkar and Prajakta Pande presented a paper entitled “Secure Multiparty Computation Protocol: Basic Building Blocks Methods” in National Conference on “Innovations in IT and Management” (NCI2TM) organized by Department of Computer Application, SIMCA, Pune in Association with MAMI (Management Association of MCA Institutes), on 22nd February, 2014. The Paper was included in *International Journal of Information System (IJIS)* (ISSN: 2229-5429).
- ◆ Prof. Anand Padwalkar presented a paper entitled “Secure Multiparty Computation protocol use in data mining: No loss secured approach” in National Conference on Recent Trends in Information Security NCRTIS-2014 organized by G. H. Raisoni College of Engineering , Nagpur on 22nd and 23rd January 2014.
- ◆ Prof. Deoyani Shirkhedkar presented a paper entitled “Analysis of Various Tools of Digital Forensics” in National Conference NCOAT NIRMITI-2014 organized by Priyadarshini Institute of

Engineering and Technology, Nagpur on 4th January 2014.

- ◆ Prof. Deoyani Shirkhedkar delivered a guest lecture on “Cloud Computing”, to engineering undergraduates of Computer Science and Engineering Department, Abha Gaikwad- Patil College of Engineering, Nagpur on 18th January 2014.
- ◆ Prof. Satyajit S. Uparkar judged the University level paper presentation competition “Prayas 2014”, organized at VMV College, Nagpur on 18th January 2014.
- ◆ Prof. Poonam Khandar attended a national workshop on “Advanced in Data Mining” at Abha Gaikwad- Patil College of Engineering, Nagpur, 4th January 2014.

❖ STUDENTS' ACCOMPLISHMENTS

- ◆ Anurag Meshram of 2nd Year won the first prize in CAMPUS KEEDA and RADRACE events in TEKFEEST-2014, organized by Rajiv Gandhi College of Engineering and Research, Nagpur.
- ◆ Shreya Bangad and Manisha Dharmali of 2nd Year won the first prize in Mind Blogging events in COLOSSEUM-2014, organized by IT Department.
- ◆ MCA Department Students' Cricket team won the Branch Cup Cricket of PRATISHRUTI -14. Akash Jha, Raghav Sangamnerkar, Akash Dubey, Ravi Dubey, Manjish Mishra, Sourabh Itankar, Mohit Patel, Manoj Belghaya, Sharadkumar Singh, Surendran Pilley, Tushar Gawali,

Ankit Meshram, and Siddhartha were the team players.

◆ CAPACITY BUILDING ACTIVITIES

◆ Industrial Visit to ITC Infotech, Bangalore



The Department organized an industrial visit to ITC Infotech, Bangalore on 8th January 2014. 67 students of 4th Semester of both the shifts were accompanied by Prof. Mohini Upasani, Prof. Satyajit S. Uparkar, Prof. Rupa Patel, and Prof. Sachin Upadhye. At ITC InfoTech, the HR team gave the students inputs on company profile, placement policies, and PLM technology. Mr. Sudhen K. of ITC Infotech highlighted the scope for campus connection activities with RCOEM. A meeting with the teaching staff was also conducted where the existing MCA syllabi was discussed.

◆ “Golden Dreams” – An ED Cell Initiative

Department of Computer Application and IT organized this event for the students who are interested in entrepreneurship. The event was held on 15th March 2014 where 300 students from both the departments participated to enhance their entrepreneurship skills. The event was inaugurated by the Chief Guest - Mr. Ashish Sharma in the presence of Guest of Honor, Mr. Abhishek Pande, CEO, Soft-e-Biz Technologies, Nagpur; Shri Govindlal Agarwal; Dr. Q. H. Jeevaji; Prof. M. R. Jain, Chief Coordinator, OASIS – The ED Cell; and Prof. P. D. Adane, HOD – IT. It was followed by activities executed by student coordinators of both the departments.

◆ Industrial Visit to RTTC, BSNL, Nagpur

The Department organized a industrial visit to Regional Telecom Training Center of BSNL (RTTC-BSNL), Nagpur on 22nd March 2014. 71 students of 4th Semester visited the center. Three parallel laboratories based on SWG, Broadband and Optical Fiber Cable were seen where the overall communication infrastructure was discussed. A special visit to BTS section was also conducted in which the wireless communication, timesharing and working of 2G and 3G spectrums were explored. The visit was coordinated by Prof. Shruti Rakhunde, Prof. Anand Padwalkar, and Prof. Satyajit S. Uparkar.

◆ **Guest Lecture on “Transforming Health Care with Mobile”**

This was organized on 24th January 2014. The guest speaker was Mr. Satin Katiyar CEO and Architect, Kratin Solution, Nagpur. The lecture focused on healthcare and retail domain and its contribution to bringing positive change in the life of consumers, employees and others, by using mobile and data. He also gave a demo.

◆ **Guest Lecture on “Business Intelligence”**

A guest Lecture on “Business Intelligence” was organized on 25th January 2014 for the 2nd Year students. The guest speaker was Dr. Sandip Karemore, Project Manager, Persistent Pvt. Ltd, Nagpur. He spoke on new areas of business intelligence which can be implemented in real life. He also explained

the ways to improve the existing systems with the help of business intelligence.

◆ **Guest Lecture on “Agile Methodology in Software Testing”**

The Department organized guest lecture by Mr. Sagar Pawar and Mr. Umakant Singh, Senior Software Engineer, Kratin Solution, Nagpur, on 28th January 2014. The guest lecture enlightened the students on software testing in industry and the new challenges in it.



Dr. D.S.Adane felicitating Mr. Sagar Pawar and Mr. Umakant Singh

◆ **Guest Lecture on “Financial Management”**

The guest lecture was conducted on 24th March 2014 by the Dr. Kanchan Naidu, DMT, RCOEM for 2nd Year students. She gave tips on financial planning and provided information on SEBI (Securities and Exchange Board of India).

TRAINING AND PLACEMENT DEPARTMENT

✦ PLACEMENTS

In the quarter 22 companies visited campus for the selection of 2014 batch. 11 of these

were core and the other half were IT companies:

Name Of Company	No. Of Placements	Visit period
Sunflag Iron & Steel Co. Ltd	6	13 th to 31 st January 2014
Kirloskar Group	Result Awaited	
Skillnetinc	Result Awaited	
Raymonds Limited	7	
BHEA Knowledge Technologies pvt. Ltd	2	
Triveni Turbines Limited	1	
Tech Mahindra	15	
Gati KWE	6	
IBM India Pvt Ltd	0	
Toyo Engineering	0	
Webonise Labs Pvt Ltd	1	8 th to 27 th February 2014
IBM India Pvt Ltd	2	
TPG Consulting Pvt Ltd (Progress Group)	0	
Mahagun Developers Pvt Limited	15	
Essense It Solutions	3	3 rd to 26 th March 2014
Gmr Airport Development Ltd	0	
HSBC Gtl	9	
Difussion Engineers	0	
Calsoft	0	
Amdocs	16	
Torrent Power	Result Awaited	
Nice Software	2	

PRESENT STATUS OF PLACEMENTS

2014 BATCH (Current Batch)

Placements : 524

Companies Visited : 53 (Core 23 + IT 30)

2013 BATCH

Placements : 464 (B.E. 423 + M.C.A. 37 + M.Tech 4)

Companies Visited : 64 (Core 27 + IT 37)

BEYOND ACADEMICS

◆ IEEE RCOEM Students' Branch (IRSB)

◆ Exclusive session for IEEE student members with Dr. Paul Cotae

During the international conference organized by RCOEM, the members of IEEE RCOEM Students' Branch got a golden opportunity to interact with Dr. Paul Cotae. Being an interdisciplinary expert, he could efficiently cater to questions from the field of Computer Science, Electronics and Communication, and Electrical Engineering. Discussion about his research broadened the students' perspective and helped them develop interest in research.

◆ Paper Presentation by IEEE student members

A paper on "Survey of Real Time Operating Systems" was presented by Mr. Rachit Varma, Mr. Prasanna Hambarde and Ms. Shivani Jha of IRSB at the ICESC. The paper was highly appreciated by the guests.

◆ Orientation Programme

The IRSB organized an Orientation Programme on 30th January to acquaint the students with IEEE and the benefits of becoming its member. Prof. Vinit Kotak, Student Activities Chair of IEEE Bombay Section was the Chief Guest of the event. Prof. R.R. Khandelwal, Branch Counselor,

introduced the new executive committee consisting of Mr. Rachit Varma as Chair, Mr. Prasanna Hambarde as Vice-Chair, Ms. Radhika Bais as Treasurer, Mr. Paras Lohani as Secretary, Mr. Aman Tahanguria as Joint Secretary, and Mr. Akshay Patil as Webmaster. Dr. V.S. Deshpande, encouraged the students to be a part of IEEE to help improve their hard skills.

The inauguration session was followed by a talk by Prof. Vinit Kotak. He explained how IEEE has provided a platform for institute-industry interactions, soft-skills training programmes, internships, technical symposiums, international university fairs and many more activities for the benefit of graduate and undergraduate students and professionals. He praised RCOEM for making efforts towards maintaining the high standards of IEEE.

◆ Talk on "Undergraduate Research"

On 17th February 2014, Dr. Chandan Vichoray, Dean of the Research and Development Cell of RCOEM conducted the seminar for the members of IRSB. It covered key issues to be kept in mind while writing a technical paper. He also highlighted how the college can help students in writing one. Dr. Vichoray talked about 'IPR – Intellectual Property Right' and 'plagiarism check'. He encouraged the students to go for field research rather than table research. The

lecture also constituted tips on the structure of a paper and oft neglected sections like 'References', 'Conclusion' and 'Bibliography'. The students were also informed about various grants that are available for young researchers.

◆ **Seminar on "An Innovative Methodology for Inculcation of Soft Skills-Technical Paper Writing and Presentation"**

It was organized on 7th of March, where Dr. V. S. Deshpande was the key speaker. He pointed out that the pressure sustaining capabilities of candidates are instrumental in their survival and that employers today look for the right blend of subject knowledge and soft skills. He explained how technical paper presentations can help students by providing

them soft and hard skills, and can also help them to assess their performance in current scenario. He also informed the students about various research publications, journals and conferences available for different branches. Finally, students were informed about the criteria upon which the presentation is evaluated.

◆ **Talk on "Internship Opportunities"**

A talk on 'Internship Opportunities' was organized on 13th March to provide students different options for internship. Information given by Mrs. R. R. Khandelwal during the talk will be helpful for students to select companies for internship according to their field of interest.

ALUMNI ASSOCIATION CONCLAVE 2014



Alumni Meet - Conclave 2014 was organized on campus on 22nd March 2014. It was to

felicitate the batch of 1997. The occasion was graced by more than 40 alumni from of

the batch. Prof. Anupam Kher, Prof In charge of Alumni Association and Dean T&P, highlighted the achievements of RCOEM and appreciated their zeal to assemble. The occasion was graced by Mr. Tushar Marghade, President of Alumni Association, Dr. K.N. Agrawal, Prof. P.D. Pachpor, Prof R.S. Dhiran, Prof. N.M. Deshkar, Prof. Mridula Korde, Secretary of Alumni Association and teaching staff of RCOEM from various departments. Before the felicitation, a cultural programme was conducted by the students. The highlights of the Alumni Meet were Mock class activity and exclusive video prepared by the current students for the 1997 Batch.



The Meet provided a platform for the alumni to discuss with the authorities of RCOEM the ways to strengthen the bond. It was decided that alumni support to current students will be strengthen in the area of training, placement, career counseling and other areas that need support. It was also decided to raise funds to develop the students' activity centre coming up on campus. The Meet ended with a promise to meet again. Prof. Rakshal Agrawal, Prof. Anju Gupta, Prof. Anish Goel, Prof. Archana Tiwari, Prof. Pritam Bhadade, Prof. Shravan Chandak, and student volunteers worked hard for the success of the event.

◆ Visit of RCOEM Alumni for Placement

Recently RCOEM alumni, Mr. Anand Krishnamurthy (EN 1994) and Mr. Rajan Gupta (Mining 1999) from AMDOCS visited T& P Department for placement of RCOEM students.

NEWSLETTER TEAM

Editor and Coordinator

Dr. (Ms.) Deepshikha Mehra, Dept of Humanities

Compiler and Coordinator

Dr. (Ms.) Gayathri Band, Dept of Management Technology

Newsletter Design

Dr. (Ms.) Deepshikha Mehra

E- Newsletter

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