



SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT, NAGPUR

(Formerly : Shri Ramdeobaba Kamla Nehru Engineering College)
Ramdeobaba Tekadi, Gittikhadan, Nagpur - 440013
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Shri Ramdeobaba Temple on Campus

REFLECTION NEWSLETTER

OF
SHRI RAMDEOBABA COLLEGE OF
ENGINEERING AND MANAGEMENT

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LETTER FROM THE EDITOR

Dear Readers,

The third quarter of 2014 was abuzz with a plethora of activities in the College which are presented in this issue of REFLECTION. Publications, conference presentations, workshops conducted and attended, and many other extra-curricular achievements are enumerated.

The highlights of the quarter were the visits made by accreditation expert teams from NAAC, NBA, and Autonomy external audit. The feather in the cap was numerous awards and achievements in this quarter. Six doctoral degrees, 'Best Student' award, gold medals for academic achievements, College climbing up the ladder of the all-India rank are some of the momentous achievements that this issue of REFLECTION proudly reports. The quarter also welcomed the First Semester students of PG and UG to the College.

Enjoy reading.

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

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Momentous Events

AWARDS : Excellent Student Award

Mr. Archan Das, Final Year industrial engineering student of the College was conferred with the "Excellent Student" Award by Rashtra Sant Tukdoji Maharaj Nagpur University (RTMNU) for his all-round performance in academics as well as extracurricular activities. He was selected amongst all the institutions under RTMNU. The award was given on Founder's day of RTMNU on 4th of August 2014 at the hands of Honorable former Chief Justice J.N. Patel, Calcutta High Court and Shri Anoop Kumar, Vice Chancellor, RTMNU. This is the second time that a student of RCOEM has received the award.

PRIZE TO ARCEON 13

The college magazine "ARCEON 13" got the Motivational prize of Rs. 500 from RTMNU as part of its participation in inter-collegiate annual institution magazine competition. Dr. Gayathri Band and her team coordinated the making of the magazine.



DOCTORAL DEGREES AWARDED



Dr. Avinash Agarwal, Dr. Preeti Voditel, Dr. Jayu Kalambe, and Dr. Shilpa Kulkarni with their degrees

Seven faculty members of RCOEM were awarded their doctoral degrees. The degrees were awarded to Dr. Avinash Agarwal (CSE), Dr. Peeti Voditel (MCA), Dr. Jayu Kalambe (EN), Dr. Shilpa Kulkarni (Physics), and Prof. V. V. Shukla (Mech) at the convocation held at VNIT on 15th September 2014. Dr. M.B. Chandak, HOD-CSE was awarded Ph.D. degree in the 100th Convocation of RTMNU on 26th Sept 2014. Prof. R. B. Raut of EC Dept was also awarded Ph.D. by RTMNU.



OUTLOOK RANKING of RCOEM

Outlook, a prestigious magazine, has ranked the College at 47th among top 75 engineering colleges of India including IITs and NITs. RCOEM has climbed up the ladder of ranking from 50 last year to 47 as per the July 2014 edition of the Magazine. Every year Outlook carries an independent and exhaustive survey of engineering colleges in India in which it covers different quality assurance parameters including selection process, academic excellence, personality development, industrial interface, infrastructure, and placement.

ACCREDITATION VISITS TO RCOEM

NBA EXPERT TEAM VISIT



An expert team from National Board of Accreditation (NBA), New Delhi, visited RCOEM from 25th to 27th July 2014 for accreditation of four UG programmes, that is, Industrial engineering, Computer Science and Engineering, Electronics and Communication Engineering, and Information Technology. The team comprised of eight experts led by team Chairman - Prof. N.R. Banerjea, Ex-Vice Chancellor, Bengal Engineering and Science University, Shibpur.

The whole process of accreditation was carried out as per Tier-I format of NBA. The process began with welcome of the team by Hon'ble Chairman - Shri Banwarilal Purohit, Hon'ble General Secretary - Shri Govindlal Agrawal, Hon'ble Secretary - Shri Rajendra Purohit, Principal - Dr. R.S. Pande, Incharges of Coordination committee, Deans, HODs and senior faculty members. This was followed by a presentation by the Principal. During the three-day schedule, the experts inspected all the central facilities, verified their documents, records and spent considerable time in each of those departments that had applied for accreditation. They also interacted with students, faculty members, parents, alumni and employers to assess the performance of respective departments.

Before the visit, an internal and an external mock visit was organized by the Coordination committee under the

guidance of the Principal to help the departments assess the extent of their preparation. While the internal mock inspection was carried out by senior faculty member of RCOEM, the external mock expert team consisted of Dr. O.G. Kakde (Director of VJTI, Mumbai), Dr. A.G. Keskar (Professor of Electronics, VNIT, Nagpur), Dr. P.M. Padole (Professor of Mechanical Engineering, VNIT, Nagpur), and Dr. Srinivasa Rao (Professor of Computer Science at Siddhartha College of Engineering, Vijayawada).

AUTONOMY EXTERNAL AUDIT BY EXPERT TEAM



External Audit Team Interacting With Hods

Autonomy External Audit Committee visited RCOEM on 4th and 5th August 2014. The expert team included the Chairman of the Committee - Dr. S. C. Sahasrabudhe (Director, DAIICT, Gandhinagar) and members - Dr. O. G. Kakde (Director, VJTI, Mumbai), Prof. G. Venkatachalam (Emeritus Fellow, IIT, Mumbai), and Dr. Avichal Kapur (Dean (AQ), CEO, Meghe Group of Institutions, Nagpur, Former Scientific Officer, BARC, Dean, HBNI). The team inspected various facilities in the college and interacted with students and the staff.

NAAC PEER TEAM VISIT

A four-member peer team of National Assessment and Accreditation Council (NAAC), Bangalore visited the College from 18th to 20th September 2014 for assessing the quality of academic and administrative processes.

The team consisted of Prof. H.P. Khincha (Chairperson), Former Vice Chancellor, VTU, Belgaum), Dept. of Electrical Engineering, Indian Institute of Science; Prof. Matahadal Shukla (Member), Professor Co-ordinator, Faculty of Commerce and Management Studies, Mahatma Gandhi Kashi Vidyapith, Varanasi (UP); Prof. N. Alagamurthi (Member), Prof. in Dept of Mechanical



Engineering, Pondicherry Engineering College; and Prof. Amiya Kumar Rath (Member), Principal, Dhaneshwar Rath Institute of Engineering and Management Studies, NAAC is an autonomous body of University Grants Commission, New Delhi that carries out qualitative assessment of the processes being practiced by an institute on the basis of its well-defined five core values and seven criterions. Since 2011, after grant of autonomy, RCOEM has brought significant quality enhancements in its curriculum, teaching-learning, evaluation and other supplementing processes, which are necessary to produce globally competent engineers. Even though the engineering and management programmes in RCOEM are accredited by NBA, the College decided to go through a third party evaluation by NAAC, which uses a holistic assessment approach.



Students' Representative Council (SRC) organized its annual event for freshers - AARUNI 2014 27th September 2014. The theme of the cultural extravaganza was SEFINITY (sefie + infinity). It began with the finale of Impera which is a week-long competition that tests the aptitude, speaking skills and overall personality of the contestants. The winners of Impera were Mahek Khurana and Yash Kapoor who were crowned as Mr and Miss Impera 2014. The event also saw melodious performance by the Music Club of the College as well as

a fashion show on various themes like royalty, classic books characters, and selfie. Bharat Kungwani and Chetna Chhabadia got the 'Best Dressed' award. Debanjana Nath was awarded for 'Best Selfie' and Aboli Ambagade won the 'Best Style' award. The 'Best Dancer' award was conferred to Aditya Patnaik. Rajat Thatere won the Best Enthusiast award. The event was organized by SRC was coordinated by Dean-SRC- Dr. Rashmi Shahu.

Gyanodaya

Gyanodaya - an induction program for B.E. First Year students was held on 1st August 2014. Swami Brahmasthnanndji, President, Ramkrishna Math, Nagpur was the Chief Guest of the function. In his inaugural address Swamiji stressed on the importance of building physical stamina along with mental strength. He stated the significance of 'expansion is life and contraction is death' and emphasized on building of character and moral values based on the knowledge and core values of Indian culture disseminated by Vedas and Upnishads. Dr. R.S.Pande, spoke on the need to develop qualities, other than academics. He also stressed on the importance of hard work that the students have to learn to put in the initial stages of their engineering education. Shri Banwarilal Purohit, Chairman, RCOEM, gave the presidential address. He stressed on simple living and high thinking by illustrating Dr A.P.J. Abdul Kalam's example. He also laid stress on how hard work in life always bears fruitful results. Dr. Kanchan Naidu proposed the vote of thanks and Prof Sangeeta Deshmmkh coordinated the program.



AUTONOMY
EXTERNAL AUDIT
BY EXPERT TEAM



MOMENTOUS ENDEAVORS

COURSES BY RCOEM FOR DIRECTORATE GENERAL RESETTLEMENT, MINISTRY OF DEFENCE, NEW DELHI

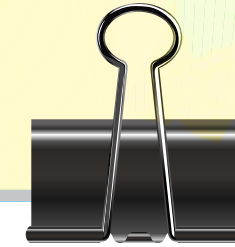
RCOEM has been conducting Certificate Courses under various categories as resettlement training for personnel of Army, Navy and Air Force, under the aegis of Directorate General Resettlement, Ministry of Defence, New Delhi. The first certificate course was conducted in 2012 on Aircraft Maintenance Engineering for a duration of twelve weeks.

Next year Retail Management course was also added to it. In 2013 the Institute conducted two certificate courses of twelve weeks each on Aircraft Maintenance Engineering and Retail Management. This year also the Institute was entrusted to conduct above two courses for the Defence Services personnel who are going to retire within a year. Retail Management course is being conducted by the Department of Management Technology. The course is useful for the personnel to get job in the retail sector after retirement. Aircraft Maintenance Engineering course initiates the candidates to prepare for DGCA courses which can get them license to work on civil airlines. The course is being co-ordinated by Group Captain Ranbir Singh (Retd). Most of the personnel who had undergone the above courses are well settled in their second careers after retirement. RCOEM is the only Institute in Nagpur where these two courses are being conducted.

Every month, Shri Ramdeobaba temple committee conducts various religious events. In this quarter too events like the "Bhadwa Mela Utsav" was celebrated from 27th August to 4th September 2014. Devotees in large numbers participated in this Utsav. Following functions were held during the nine-day celebrations:

- On 27th August Dhwaja yatraon ka swagat was held where all Dhwaja Yatris who came through Shri Banwarilal Purohit were welcomed in the esteemed presence of Vidarbha Mira Sant Sushri Alka Shriji.
- On 28th August a function of Baba Ki Badhai was held in the presence of Shri Babulal Pacheriwala and Family
- On 29th August Sthapana of Ganeshji and Mahaarti was conducted.
- On 30th August a Sundarkhand was conducted.
- On 31st August Baba ka Jamma Jagran and Prasadi was held. Bhajans in the Jagran were performed by Bhajan Samrat Shri Prakash Mali Balotara from Rajasthan. The Prasadi was by Shri Amit Kotari.
- On 1st September a Ras Garba competition was held.
- On 2nd September Jamnaji ki Paath was organized by Mrs. Kalpana Sanjay Rathi
- On 3rd September a function was conducted that presented Shri Rani Sati Dadaji Bhajan by Shri Rani Sati Prachar Samiti.
- On 4th September Jamma Jagran was held followed by Prasadi by Shri Narendra Agrawal

TEMPLE NEWS



Writer's Corner Thoughts . . .

Dr. Rajeshree Raut

Many minds tune together,
Many hands work together,
For a successful venture.

The friends, father and the mother,
As also his teacher,
All contribute together,
For shaping a student's future.

Think of all these,
If not every second,
Let it be every minute,
Or let it be every hour At least be it every day.

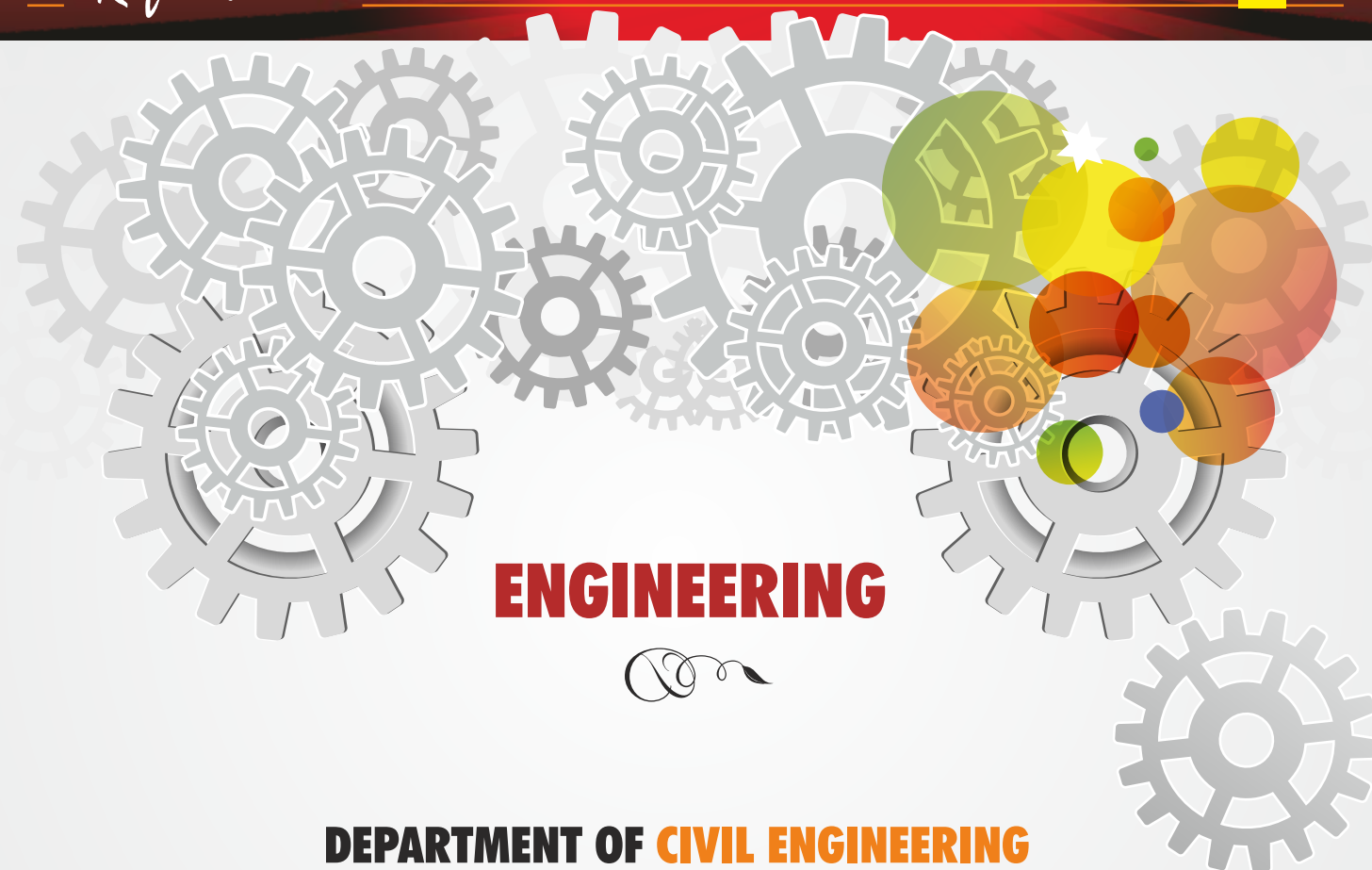
And in Every day
May it be one hour?
Or it can be even one minute
At least one second

Give a thought to the
To the pains taken 'in building'
Realize the importance of
Creativity and Creation

In Shaping you,
Towards your destination...
Think and you may
Trigger your Imagination
Awake your Conscious
And give up Negativity and Destruction.

Let us all join hands
Towards "Live & Let Live"
With Just and fair Competition.

(The poetess is Associate Professor with the Dept of Electronics and Communication, RCOEM and for any inputs on her poem can be reached on rautrd@rknc.edu)



DEPARTMENT OF CIVIL ENGINEERING

FACULTY CORNER

- Dr. M.S. Kadu, Prof. T.K. Rao, Prof E.M. Gonnade, Prof. S.V. Joshi, Prof. A.K. Sharma, Prof V.A. Dakwale and Prof. P.P. Dahale attended a one day workshop on 'RTMNU Syllabus revision for Civil Engineering' on 27th September 2014 organized by KDK College of Engineering, Nagpur.
- Prof. P B Kulkarni delivered an expert lecture on "Irrigation Engineering (Gates and spillways)" at NIT Polytechnic, on 22nd September 2014.
- Prof. A.K. Agrawal delivered a guest lecture on "Aptitude Development" in the following departments of RCOEM
 - Mechanical Engineering on 1st September 2014. Around 50 students attended the lecture.
 - Civil Engineering on 20th August 2014. Around 70 students attended the lecture.
- Prof. S.A. Salpekar delivered a lecture in the workshop on "Statistics using R" conducted by the Department of Computer Science and Engineering, VNIT, Nagpur in association with ACM Nagpur Chapter from 21st to 23rd August 2014.

- Prof. A.K. Agarwal, Dr. M.S. Kadu, Dr. C.P. Pandhurnekar, and Prof. I.L. Muthreja's following papers were published in international journals:
 - "Equilibrium isotherm studies for the sorption of Nickel ions onto coal fly ash", *Environment Conservation Journal*, 15/1&2; pp 153-159. (ISSN 0972-3099).
 - "An investigation of characteristics of a low cost adsorbent for removal of Zn²⁺ ions from aqueous solution", *Journal of Environmental Research And Development*, 9 (1); pp.31-37. (ISSN 0973-6921) (IF 0.604).
- Dr. M.S. Kadu's (with Prof. A Asati as first author) paper entitled "Sismic Investigation of RC Elevated Water Tank for Different Types of Staging Pattern" was published in *International Journal of Engineering Trends and Technology (IJET)*, 14(1), pp. 4-7 (ISSN 2349-0918).
- Dr. M.S. Kadu's (with Prof. R.R. Dighade and Prof. A.M. Pande as first and third author, respectively) paper entitled "Challenges in Water Loss Management of Water Distribution Systems in Developing Countries" was published in *International Journal of Innovative*

Research in Science, Engineering and technology, 3/ 6, pp13838-13846, ISSN: 2319-8753.

- Prof. P.D. Pachpor's (with Dr. L. M. Gupta, and Dr. N.V. Deshpande as second and third author, respectively) paper entitled "Analysis and Design of Cellular Beam and its Verification" was published in *IERI Procedia*, Elsevier, 7, pp 120-127 (ISSN 2212-6678).
- Prof. P.B. Kulkarni's (with Prof. Pooja V. Raut and Prof. Nikhil S. Agrawal as first and second author, respectively) paper entitled "Analysis of Masonry Infilled Frame with & without Different Percentage of Opening" was published in *International Journal of Advance Engineering and Research Development*, 1/ 8, pp70-78, August 2014.
- Prof. V. A. Dakwale's (with Dr. R. Ralegaonkar and Dr. M. V. Kamath as first and second author, respectively), paper entitled "Design and Development of Geothermal Cooling System for Composite Climatic Zone in India" was published in *Journal of the Institution of Engineers (India)*, 95/3, pp.179-183, Series A, DOI10.1007/s40030-014-0082-y, August 2014.

STUDENTS' ACCOMPLISHMENTS

- Mohit Sharma, the RTMNU Civil Engineering topper was awarded 10 gold medals at the 100th convocation of RTMNU. He received the Smt Vimal Panmal Bantiha



Shri Govindlal Agarwal, Dr. R.S. Pande, Dr. Kadu and Prof. P.D. Pachpor with University winner of 10 Gold Medals Mr. Mohit Sharma

Memorial, Pradeep Kumar Dwivedi Memorial, Late Dr. Deshraj Budhreja memorial, Late Prof R.T. Jadhav

Memorial, Late Dr. Sushil Jagdish Chandra Mukharjee Memorial, Late Manohar bhai Patel Memorial, Late Seth Murlidharji Dhiran Nagpur Memorial, and Late Smt Sushila bai Manoharrao Vaidya Memorial gold medals along with the Golden Jubilee IE (I) Nagpur center award.

- Arpit Chachra and Ajit Barhate, Final year students, were placed in MU-SIGMA through the campus selection process.
- Aditya Lakhe, a student of Second Year secured first position in "RACE 14", a national paper presentation competition organized by GNIET, Nagpur.
- Ankit Suman, VII semester student attended two days workshop on "water proofing technologies in construction industry" organized by Indian Concrete Institute, Delhi centre on 18th to 19th July 2014.
- Confederation of Indian Industry (CII) in association with Indian Green Building Council organized an international conference and exhibition on "Green buildings" at Hyderabad International Convention Centre, Hyderabad from 2nd to 6th September. Abhijeet Malewar and Ajit Barahate (from Final Year) and Mitesh Agarwal, Arpit Agrawal, Mehul Rathi, Shreyansh Khandelwal, Ankit Virmani, Rajat Jairath, Nikhil Agrawal, Ritesh Jain, and Subhash Mandhan (from Third Year) attended the conference.

CAPACITY BUILDING ACTIVITIES

- An expert lecture was delivered by Shri R K Verma, Regional Technical Head, DLF Home Developers Ltd, Delhi on 30th August 2014 in the Department. He appraised the students about new developments which are taking place in the areas of cost control in residential projects and new building materials. He also enlightened them about professional practices needed to compete in today's environment. The 90 minutes interaction was very useful as the topics covered were beyond the syllabus and made students aware about the changes that are taking place in the construction industry. Mr. Verma was welcomed by Prof. H.P. Khungar, class teacher, 7th Semester. The lecture was coordinated by Prof. M.S. Tiwari.

INSTALLATION OF INSTITUTION OF ENGINEERS (I) STUDENTS' CHAPTER CIVIL ENGINEERING DEPARTMENT, RCOEM

The Institution of Engineer (India) Students' Chapter (IEISC) was installed at the Department on 6th September 2014. The programme was organized in collaboration with Indian Concrete Institute, Nagpur Chapter. Er. V R Dharkar, retired Executive Engineer from NMC and Senior Member of IEI, was the Chief Guest. Er. Manoj Kawalkar, Chairman ICI, Nagpur Centre, was the Guest of Honor. Dr. D P Mase, Secretary IEI Nagpur Centre, presided over the function. Dr. M.S. Kadu, HOD gave the introductory remarks and Mrs. Snehal Abhyankar, Faculty Advisor IEISC proposed the vote of thanks. Shantanu Agrawal was appointed as Chairman, Students' Body and Aashita Handa, Roshan Yadav, and Gaurav Kumar were selected as core committee members. The program was conducted by Prateek Indurkar and Shivani Hurkat.

The students' chapter will conduct lecture series on advanced topics of concrete. Mr. Vivek Naik, Managing Director Applechemie India Ltd. delivered the first lecture in the series on "Admixtures". Mr. Naik put forth various interesting issues related to advanced technologies in construction and repair of concrete structures.



Students' body installation of IEI Students' Chapter

INDUCTION OF M. TECH STUDENTS OF 2014-15 BATCH

The Department organized an induction programme for First semester M. Tech. (Geotechnical Engineering) and M Tech (Structural Engineering) students on 4th August 2014. The programs were conducted by M Tech Coordinators Prof. P.P. Dahale and Dr. R.N. Khapre. During the interaction, information related to scheme and syllabus, attendance criteria, assessment policy, and code of conduct was given to the students. The academic policy was also discussed.

BEYOND ACADEMICS

CELEBRATION OF TEACHERS' DAY



Teachers enjoying the programs presented by students

Students of the Department organized Teachers' day function where they presented songs, thoughts, and poems dedicated to their teachers. A "Rangoli competition" was also organized for the students in which seven teams participated. The winning teams were presented with cash prizes.

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

FACULTY CORNER

- Dr. M.B. Chandak delivered a lecture on "Outcome Based learning Programme Educational Objectives" for bringing awareness on new teaching-learning schemes. It was conducted on 2nd July 2014 for the teaching staff of CSE, MCA and IT departments of RCOEM.
- Dr. M.B. Chandak was awarded Ph.D. degree in Faculty of Engineering and Technology in the 100th Convocation of RTMNU on 26th September 2014.
- Dr. Avinash J. Agrawal was awarded Ph.D. degree in the convocation ceremony of Visvesharaya National Institute of Technology (VNIT), Nagpur on 15th September 2014. Title of his research was "Using Deep Semantic Analysis for Domain Specific Natural Language Interface to Database" which was supervised by Dr. O. G. Kakde.



Dr. Avinash J. Agrawal receiving his doctoral degree

- Prof. V.Y. Karkare and Prof. Devishree Naidu attended a three-day training programme on "Latest Trends and technology Computing" at Infosys, Pune under Campus Connect Programme-TTT (Train-The-Trainer).

STUDENTS' ACCOMPLISHMENTS

- Semester VIII – Summer 2014 Toppers: CSE Final Year students (under RTMNU) brought laurel to the College by securing first ten positions with a percentage of 79 to 75. These included Shilpa S. Mundada (1st), Aanchal Y. Gupta (3rd), Rucha M. Bhade (4th), Uzma Kamal (5th), Vaishnavi G. Asati

(6th), Shruti A. Banerjee (7th), and Sakshi M. Sharma (8th). The 9th position was shared by Mayuri A. Sahatrabudhe, Radhika Ruhatiya, Anmol S. Agrawal, and Jayant Kumar Nathani.

- The students of VI SEM (under autonomy) secured high CGPAs. Shift 1 students got CGPA between 9.86 to 9.18. The students who gained high scores were Pooja Palod, Daniya Rehman, Noopur Ballal, Roshni Tiwari, Aditi Gour, Ankita Agrawal, Manasvi Gurnaney, Ashwin Bhoyar, Kehkashan Fazal, and Maria Lakkadwala. Shift II students got a CGPA between 9.41 and 8.06. These included Namita Nisal, Needa Pathan, Chirayu Samarth, Pritam Sah, Devyani Madan, Ajinkya Mahakalkar, Suruchi Gupta, Abhishek Dixit, Nikita Kalra, and Saurabh Nampalliwar.
- The students of IV SEM (under autonomy) who scored high CGPAs from Shift 1 were Ketaki Kinage, Rashmi Jakhotiya, Sarthak Shrivastava, Rohit Nagbhidkar, Sagar Ayalani, Rashi Agrawal, Yash Mehta, Apurva Nimodiya, Sourabh Bajaj, and Neha Agrawal. They scored between 9.91 to 9.16 CGPA. From shift II the toppers were Suvudha Maheshwari, Anand Kumar Singh, Dipan Mirgani, Vivek Kumar, Saima Ali Sayyed, Prathamesh Gade, Vishal Kumar Yadav, Ashwini Barapatre, Hussain Ali, and Mamta Yadav. They scored between 9.96 and 9.00.
- Mayur Parik won 2nd prize in Roboryst Robotics Competition Organized by Robosapi at IIT Delhi on 20th September 2014.
- Mayur Manapure received Regional level Certificate in National Youth Parliament/Mock organized by CBSE/KV Sanghatan on 20th September 2014.
- Kiran Gotaphode received a certificate and a shield at the international conference and national convention held from 11th to 13th September 2014 for her paper "Productivity Improvement with sustainable development" organized by IIIE, Vishakhapatnam.
- Chinmay Degwekar and Abhilash Mandlekar participated in a two-day workshop on "Ethical Hacking" at VNIT, Nagpur on 20th and 21st September 2014.

- Kalyani Jagdale's paper entitled "key to productivity-happiness" was selected at international conference and national convention held from 11th to 13th September 2014, organized by IIIE, Vishakhapatnam.
- Nikita Gowanidh and Avnika Goyal attended a two-day workshop on "Legged icellBotix" At RCOEM by Robotics & Computer Applications Institute of USA, 10th and 11th September 2014.
- Abhinav Mishra received Shortie award and certificate for best ad on "save water".
- Mahesh Singh received a medal and a certificate in Football (for divisional and state level), Cricket (divisional), Handball (divisional), Running-100m (divisional), organized by State Government on 20th September 2014.
- Daniya Rehman of Final year was the only student to get selected by Informatica. In addition the other students who got placed were Aditi Gour in Nvidia; Akshay Patil, Simran Jain, Rohit Toatala, Anagha Baheti, and Piyush Goel in Mu-sigma. Tech Mahindra picked up 38 students from the Department. 57 were placed in Infosys, 14 in Persistent, 12 in L & T Infotech, 9 in ITC Infotech, 2 in Infocepts, and 5 in Capgemini. Out of these, seven students have three job offers each.
- A good interaction with industry has resulted in Final Year projects being defined by reputed software industries. The results of industry-defined projects are also used as end-products by software industries. This year Persistent System Pvt. Ltd. conducted technical test to select Final Year students for industry projects. Nineteen students have been selected.

CAPACITY BUILDING ACTIVITIES

GUEST LECTURE FOR THIRD YEAR STUDENTS

The 5th Semester students of the Department were briefed about project ideas and applications by Mr. Hrushikesh Zadgaonkar on 19th July 2014. Mr. Zadgaonkar, an alumni of the College, is currently working as a Senior Software Developer in Persistent Systems - Home Security Wing. The seminar started with Mr. Zadgaonkar bringing out the fields like social, business intelligence, data mining, iBeacon, Machine Learning and mobile apps or web applications that

could be explored for projects. He abbreviated these areas of research as SMAC or S-Social, M-Mobility, A-Analytics, and C-Cloud. He concluded by saying that projects play an important role in placements. If the domain selected concentrates on the IT sector, then people hold a higher chance of getting placed.



Mr. Hrushikesh Zadgaonkar delivering the lecture

ORIENTATION PROGRAM FOR SECOND YEAR STUDENTS

In association with the Students' Branch of Computer Society of India [CSI], the Department organized a technical forum for Second Year students on 8th August 2014. Prof. Devishree Naidu, Coordinator of Students' Branch of CSI, addressed the students about various activities of CSI Students' Body in the Department. Dr. M.B. Chandak interacted with the students and motivated them to explore new avenues on the technology front. This was followed by project demonstrations by some of the Final Year students. Through this session the students became aware of the standards or benchmarks set for the projects that they will submit next year.



Mr. Ajay Chaudhary giving a lecture

To provide information to the students on industry-specific needs, Mr. Ajay Chaudhary, Director-Engineering at Global Logic, Nagpur was invited to address the gathering. He pointed out that companies look for employees who add value to the organization, the industry and the society. He emphasized that the industry expects to have open-minded employees who have high degree of self-respect and ability to think out-of-the-box. They are also keen to employ those who know the standard tools that are used in the industry.

He further added that a student can build a strong foundation for himself/herself by focusing on ones thought process, algorithm development, and getting

deeper into programming language constructs. He told the gathering that in order to develop efficient programming skills, maximum time needs to be devoted to designing and developing programs. He concluded his speech by bring out the importance of academics in not only shaping the career and personality of a student, but is also an opportunity for beginners to enhance their skills by optimally utilizing available resources.

- MOUs with companies like SUN, IBM and ORACLE have brought necessary support and training on the latest software products, which has bridged the gap between institution and industry.

DEPARTMENT OF ELECTRICAL ENGINEERING

FACULTY CORNER

- **SGPA Planner: Developed by Prof Jayant Joshi :** Planning academics to achieve the targeted CGPA has been a difficult task for the students in autonomy due to complex calculations. Prof. Jayant Joshi, has developed an innovative "SGPA planner" which helps the students to overcome this problem and achieve their target CGPA at the end of each semester. When the student feeds his/her current CGPA at the beginning of any semester and targeted CGPA at the end of current semester, the planner gives the value of the SGPA to be achieved for the current semester. The SGPA planner was presented in the college Academic Council, which appreciated it and recommended its implementation at the Institute level. The Planner is already approved by Board of Studies and implemented in the Department of Electrical Engineering.
- **Demonstration of Shock Preventer to NAAC Committee :** Dr. D. R. Tutakne demonstrated the "High



Sensitivity Electric Shock Preventer" to Chairman of NAAC Committee Dr. S. P. Kincha on 19th September 2014. Dr. Tutakne has been awarded a patent for the same.

- Prof M. V. Palandurkar has submitted her Ph.D. thesis to RTMNU on "Replacement of Flywheel of the Process Machine with Appropriate Electric Drive". This interdisciplinary research was carried out under the guidance of Dr. S. G. Tarnekar and Dr. J. P. Modak.
- Dr. S. B. Bodkhe conducted an awareness programme on "Outcome Based Education and Accreditation" on 1st July 2014 for all teaching staff of Mechanical, Industrial, Electrical, Electronics and Basics Science departments of RCOEM.
- Dr. D. R. Tutakne delivered an expert lecture on "Variable Frequency Drive" to Assistant Engineers on 27th August 2014. The training programme was organised by Khaperkheda Thermal Power Station Training Institute.
- Prof. N. M. Deshkar gave an expert lecture to UG students of Architecture and Planning on "Electrical Services in Highrise Construction" on 24th September 2014. This lecture was arranged at the construction site premises of Naivedyam Community and Convention Centre, Pardi followed by interactive session with the students. It was organised by Department of Architecture and Planning, VNIT, Nagpur.

STUDENTS' ACCOMPLISHMENTS

- Fifty-six students of the Department have been selected by four companies through the campus selection process in this quarter. Out of these 12 students have two job offers each. Mu Sigma selected two students, Tech Mahindra selected 15, Infosys 37 and two students were placed in Capgemini
- The following students presented papers at the 56th National Convention of IIE held at Visakhapatnam from 11th-13th September 2014

- A guest lecture was organised for Third and Final Year Electrical students on "How to Crack GATE" on 29th September 2014. The lecture was delivered by Mr. Mukesh Jahangir (IES AIR-78). The students appreciated the content of the lecture which contained tips for GATE examination and opportunities after clearing GATE in public sector. The lecture was organized by Prof. V.T. Barhate, HOD and Prof. N.M. Deshkar.

LEGGED-ICELL BOTIX- ROBOTIC WORKSHOP

EESA (Electrical Engineering Students Association) and IEEE (Institute of Electrical and Electronics Engineers)-RCOEM branch jointly organized a two-day workshop on "Legged iCellBotix" on 10th and 11th of September 2014. The workshop was conducted by Mr. Amey Bhopi of Technophilia Systems, Mumbai in association with Robotics and Computer Applications

Institute (RCAI) of USA. Prof. V.T. Barhate was the Chief Coordinator while the workshop was co-coordinated by Prof. G.N. Goyal, EESA Coordinator & Prof. R.R. Khandelwal, IEEE Coordinator.

In the workshop, students learnt the basics of the working of six legged Robot parts using Atmel's AVR series and successfully interfaced the Bot with DTMF module using cell phone. 130 students attended the workshop and got hands-on experience of controlling robots using their mobile phones. A group of 5 students received a kit that that can be interfaced with a PC for future development. The workshop concluded with a competition amongst the participating teams. Three teams were selected as the winners of the first level of the competition. The national round will be conducted in Mumbai. Winners of the national round will represent India at ROBOGAMES, California, USA, which is the world's largest Robotic competition. Bhavesh Chordiya, Mohit Bais, Ajinkya Pathak, Aditya Anasane, Chetan Varma, and Shubham Pandit, all students of Third Year, Electrical received a certificate from RCAI, USA as student coordinators.



Glimpses of the session by Er. Avinash Sadhu

- Vrushali Khorgade presented a paper in "National Productivity Competition 2014" and won the 2nd prize.
- Neha Sapat also presented a paper entitled "Happiness: key to improve productivity" (it was co-authored)
- Mr. Palash Mathnikar with his team participated in SUPRA 14, an all India competition for promoting innovations and designs in automobile sector organised by Society of Automobile at Chennai. The design was appreciated by the judges for the minimal cost and its design.

CAPACITY BUILDING ACTIVITIES

- An expert lecture on "EHV Substation Engineering" was arranged for Final Year UG and M. Tech. (PEPS) students on 23rd August 2014. Er. Avinash Sadhu, T&D specialist, Marafiq, Saudi Arabia delivered the lecture. He spoke on Design Criteria, Bus System; Lay out, Grounding Grid and Design, Lightening Protection, Short Circuit Forces and Relay and Protection Schemes. The lecture was organised by Prof. S. D. Naik.

ELECTRICAL ENGINEERING STUDENTS' ASSOCIATION (EESA) INSTALLATION : EESA's installation ceremony was held on 9th September 2014. Badges were awarded to the EESA core committee members and trophies were given to students for their outstanding performance in academics, sports and extracurricular activities. Prof. V.T. Barhate gave away the prizes. Prof. G. N. Goyal enumerated the events organised by EESA in 2013-14 and shared the plan for 2014-15. The installation ceremony concluded with a cultural night.

BEYOND ACADEMICS

- Teachers' Day Celebration: The Teachers' Day celebration was organized by EESA on 5th September 2014. Students undertook various activities like extempore, quiz etc for the teaching and non-teaching staff of the Department.



▲ Glimpses of the workshop

DEPARTMENT OF ELECTRONICS ENGINEERING**FACULTY CORNER**

- Prof. Bhalchandra Hardas attended webinar on "Multimeters for Transients and other Advanced Measurements" organized by National Instruments India on 10th July 2014.
- Prof. B.M. Hardas attended conclave on "Challenges in Higher Education" organized by The Hitavada on 14th September 2014 at Hotel Center Point, Nagpur.
- Prof. B.M. Hardas became a member of The Institution of Electronics and Telecommunication Engineers (IETE).
- Prof. S.R Pandey attended Short Term Course on RF Circuits and Industrial Application at IIT Kanpur from 8th to 12th September 2014
- Prof. (Mrs.) R.R. Khandelwal had an interactive session with student of Smt. Rajshree Mulak College of Engineering for Women on benefits of IEEE membership through a seminar on "Come and Join the World's largest technical organization IEEE" on 19th July 2014.
- Prof. (Mrs.) R.R. Khandelwal attended IEEE Branch Meet at Priyadarshini Institute of Engineering and Technology, Nagpur on 9th August 2014.

- Prof. (Mrs.) R.R. Khandelwal was Faculty coordinator of two-day "Legged cell Botix" workshop organized jointly by IEEE-RCOEM student Branch and Electrical Engineering Students association on 10th and 11th September 2014.

**STUDENTS' ACCOMPLISHMENTS
PAPER PRESENTATION CONTEST**

It was held under ISF-IETE on 6th September 2014 on "Advanced trends in Mobile and wireless communication". The winners were:

- Kalyani Muley, Disha Ghoshal, and Ranjit Chanserker who presented on "Wireless Technology" . They stood first in the contest.
- The first runners-up were Sarang Kulkarni, Rishabh Nand, and Saket Penurkar who presented on "Wireless and Mobile Communication"
- The second runners-up were Vaishali Deoghare and Vaishali Thakur who presented on "Advanced in Wireless Technology" . This position was shared with Shreyas Dhole and Chaitali Gajbhiye who presented on "Liquid Lens" .
- Placements: Ishwari Deshmukh and Shubham Rajurkar of 7th Semester were selected in MU Sigma on 4 and 5th September 2014. 85 Students were selected by Infosys on 16 and 17th September 2014. 67 Students were selected by Tech-Mahindra on 11th and 12th September 2014

CAPACITY BUILDING ACTIVITIES
INTERACTIVE SESSION WITH ALUMNI



Mr. Chandru Iyer interacting with EN students

- RKNEC 1998 EN alumni Mr. Chandru Iyer, who is now International Business Development Director at Kingston Smith, UK, visited his alma mater and interacted with EN students on 19th July 2014. Prof. B.M. Hardas, Professor In-charge Electrolitz Students' Society introduced Mr. Iyer to the students and Prof. (Mrs.) Mridula Korde, Secretary - SRKNEC Alumni Association, welcomed him. Mr. Iyer expressed his sense of pride of being an alumni of the College. He advised the students to become entrepreneur and gave tips on business development, based on his experience. There was an interactive session after his speech. Prof. (Mrs.) Gouri Morankar and Prof. B.M.Hardas coordinated the event.

GUEST LECTURE ON PLC, SCADA AND HUMAN MACHINE INTERFACE

It was organized by Electrolitz Students' Society on 21st July 2014. Mr. Manish Chinchmalatpure, Sr. faculty from Linux Control Pvt. Ltd. was the guest speaker. Prof. B.M. Hardas introduced Mr. Chinchmalatpure to the students. Prof. Manish Damle, First shift In-charge welcomed the guest with a memento. Students' activity In-charge Prof. Gouri Morankar and Entrepreneurship cell Coordinator Prof. Nikhil Damle were prominently present. Mr. Chinchmalatpure gave basic idea about PLC, SCADA and human machine interface. He highlighted the importance of PLC in everyday life. Prof. Gouri Morankar proposed the formal vote of thanks.

A SEMINAR ON "ADVANCED TRENDS IN MOBILE AND WIRELESS COMMUNICATION"



It was organized by ISF-IETE of RCOEM, on 6th September 2014. A lecture was delivered by Mr. A.R. Sawatkar, General Manager BSNL. He briefed the students about various telecommunication technologies available in India and also gave an insight

into the upcoming 4th generation (4G) technology. The seminar was followed by a Paper Presentation contest on "Advanced in mobile and wireless communication" . Prizes and certificates were distributed to the winning students. The programme was successfully organized by Prof. M.B. Damle, Coordinator- ISF (IETE). Proceeding of the programme was conducted by Shreyas Dhole and vote of thanks was proposed by Ranjit Chansarkar.

BEYOND ACADEMICS
WALL MAGAZINE INAUGURATION



Dr. (Mrs.) Khurshid, along with faculty members during wall Magazine inauguration

Teachers' day was celebrated by inauguration of Wall Magazine in the Department by Mr. Tejas Moonje, Assistant Commissioner of Police (Intelligence Service). Dr. (Mrs.) A.A. Khurshid- HOD, faculty members and students were present during the occasion. The Magazine comprises of technical, art, and literary sections. Ms. Moitry Samanta and her team designed the same.

STATIONARY DONATION ON TEACHERS' DAY

On Teachers' Day, SEVA DISHA - a Social responsibility cell of Electrolitz- Students' Society donated school stationary and sporting equipments to Platform Gyan Mandir which is a residential school run by Vishwa Hindu Jankalyan Parishad in association with Nagpur Municipal Corporation and Nagpur Railway Police at Bajeriya, Near Santra Market Railway Gate. Prof. B. M. Hardas and Prof. Gouri Morankar (Incharges of the Society) along with Society President Pratik Jhawar and his team distributed material to the students.



Students of Electronics Engineering at Platform school during stationary donation

NAAC COMMITTEE VISIT TO ELECTRONICS ENGINEERING DEPARTMENT



Prof. H.P. Khincha interacting with Dr. A.A Khurshid, Prof. D.J Dahigaonkar and Prof. J Zalke



The NAAC team assessing various facilities and interacting with faculty members



DEPARTMENT OF ELECTRONIC DESIGN TECHNOLOGY

STUDENTS' ACCOMPLISHMENTS

- Arpit Pande of 5th Semester scored 304 in GRE. He also won 2nd prize in Inter branch Table Tennis competition.
- Ketan Muley of 5th Semester won 3rd Prize in Inter Branch badminton competition.
- M Kushagra of 5th Semester stood 2nd in Inter Branch Table Tennis competition and got 3rd Prize in Inter Branch badminton competition.
- 8 Students of 2nd year EDT attended a two day Workshop on Robotics organized by RCOEM on 27th and 28th August 2014.

BEYOND ACADEMICS

ETHERAL: INSTALLATION PROGRAMME OF GENESIS



HOD-EDT Prof. Harkare with the guests and the Students' Core team of GENESIS

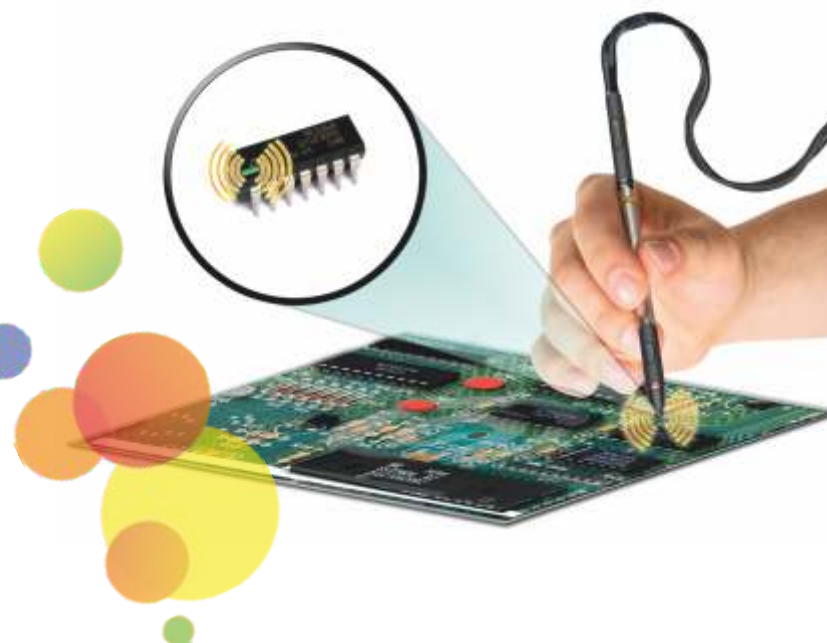
ETHEREAL-14' – Installation ceremony of EDT student's society GENESIS was conducted on 6th September 2014. The newly elected executive body of GENESIS for the session 2014-15 was installed in the inaugural function for conducting various events under the students' society. Mr. Vikram Labhe and Mr. Tushar Dhabe presided over the function as Guest of Honor and Chief Guest. Prof. (Mrs.) R. R. Harkare (HOD, EDT Dept), Prof. Divya Shrivastava (Students' Society In-charge), Shrey Pachasia (Student President, Genesis) and the faculty members of the Department were present during the function. Mr. Vikram Labhe is Alumini of EDT, 1994 batch. He is currently working as MD in PMC Sierra Inc. Mr. Tushar

Dhabe is Alumini of EDT 1993 batch; he is currently working as Business Operations Specialist Senior Staff at Juniper Networks, Bangalore.

Shrey Pachasia presented a report on the activities conducted by GENESIS and the achievements of EDT students. Mr. Tushar Dhabe in his speech shared his experiences and endeavors as a student. He encouraged the students to come up with various ideas and not just accomplish but participate in the academics to be successful. Mr. Vikram Labhe motivated the students and shared his experience with them. All the dignitaries encouraged the students to expand their horizon and not to restrict themselves to academics alone. They also had an interactive session with the students. 'Exorior - 14' – the EDT branch magazine was also unveiled during the function. Siddharth Mishra (Vice President, GENESIS) proposed the vote of thanks.

PARENT-TEACHER MEET

The Meet was conducted on 27th September 2014 in the Department by Prof. Deepika Sagne, Incharge Parent-Teacher Meet. Parents interacted with the faculty members and the HOD on issues related to performance of the students in the exams and other curricular activities, their class performance and other issues. Parents also gave valuable suggestions for improvements.



DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING

FACULTY CORNER

- Dr. S. B. Pokle was Expert for synopsis approval seminar of M. Tech (VLSI) III semester students at GHRIETW, Nagpur on 19th August 2014.
- Dr. S. B. Pokle presented a research paper entitled, "Discrete Wavelet Transform Based Video Signal Processing" at the International Conference on Advances in Communication and Computing Technologies (ICACACT) 2014, organized by PVPP'S College of Engineering, Sion, Mumbai, 10th and 11th August 2014.
- Dr. S. B. Pokle's paper entitled "Design of PSO Based Localization Technique for Mobile Sinks in Wireless Sensor Networks" was published in *International Journal of Emerging Technology and Advanced Engineering (IJETAE)*, 4/8, pp. 491-495, August 2014. (ISSN 2250-2459).
- Prof. R. B. Raut was awarded Ph.D. Degree by RTMNU for his thesis "Non linear sampling of color image" . The research work was carried out under the guidance of Dr. K. M. Bhurchandi, VNIT, Nagpur
- Dr. Rajeshree Raut was elected unopposed as Section Management Committee Member for ISTE. The term of office is three years.
- Dr. Rajeshree Raut reviewed a book on Digital Communications to be published by McGraw Hill Education, September 2014.
- Dr Rajeshree Raut reviewed the papers for following journals:
 - *International Journal of Computer Networks and Communication*, Hindwi-Publication, July 2014.
 - *InderScience Publications, International Journal of Biomedical Engineering & Technology*, August 2014
- Dr. Rajeshree D. Raut's paper entitled "Analysis of OSTBC for MIMO Rayleigh and Rician Channels" , was published in *CIIT, International Journal of Wireless Communication*, 6/7, pp. 273-279, August 2014.
- Dr. Rajeshree Raut had the honor of being the Ph.D.

and M.Tech Examiner at SVNIT, Surat, Jul 2014

- Dr. Manish D. Chawhan delivered an expert lecture on 'Bluetooth Technology' for students and faculty members of Electronics and Telecommunication Department of Rajiv Gandhi College of Engineering and Research, Nagpur, 17th September 2014.
- Prof. Anish Goel delivered Seminar on "Circuit Simulation and PCB design using OrCAD" at Tulsiramji Gaiwad Patil College of Engineering and Technology on 16th September 2014 for electronics and telecommunication students.

CAPACITY BUILDING ACTIVITIES

- Prof. Anish Goel coordinated the session on "Studying in the United States and the visa process" on 24th September 2014 for M.S. aspirants, presented by Michelle Murzello (Consular Information Unit) and Jesse C. Walter (Vice Consul) from U.S. Consulate General Mumbai along with Himanshu Dev Senior EducationUSA, Adviser at the U.S. Department of State's EducationUSA program, India Educational Foundation in Mumbai.
- Prof. Anish Goel conducted a seminar on "GRE, M.S. and Higher Education in USA" for MS aspirants of RCOEM on 10th Sept. 2014. It was an informative and interactive seminar that addressed many queries of students interested in pursuing higher education in USA.
- Guest lecture on the topic "Wireless Sensor Networks" by Dr. U. A. Deshpande, VNIT, Nagpur was arranged for the EC Final Year students in the Industrial Auditorium on 4th September 2014.
- Dr. Pankaj Agrawal In-charge EDC cell of the Department selected a new core team of the EDC cell. With the formal installation the team consists of Chetan Bhauka, Diksha Sangole, and Pratiksha Deewanji from 3rd Year have been selected as Secretaries. Ishant Bhojak, Palash Nimbalkar, Shubham Kumar, and Shubham Deshpande have been elected as members

BEYOND ACADEMICS

"INSTALLATION CEREMONY OF STUDENTS' SOCIETY COMMUNIQUE"



Installation of 'Communique Society

'EKATRA' The Installation Ceremony of Students' Society 'Communique' of the Department was conducted on 13th September 2014. The Chief Guest of the function, Shri A.R. Sawatkar (Sr General Manager, Mobile, BSNL,

Nagpur) graced the occasion. Present in the function were Dr. S.B. Pokle, HOD. He highlighted the technical facilities and achievements of the Department. Dr M. D. Chawhan, faculty in-charge, talked about various activities held under 'Communique' and Mr. Shivam Gupta, newly elected President of the Society introduced his new team. The Chief Guest Shri A.R.Sawatkar encouraged the students to work hard for achieving their goals. He stressed upon the importance of co-curricular and extra-curricular activities. He further enlightened the students on the progress India has made in wireless technologies and the efforts BSNL has taken to launch such wireless technologies throughout India. The toppers of each year, as well as the students who won in university competitions were also felicitated on the occasion. Many events such as, Cricket, Throwball etc. were held during the day as a part of the installation followed by cultural night.

DEPARTMENT OF INDUSTRIAL ENGINEERING



FACULTY CORNER

- Dr. V.S. Deshpande's paper entitled "Formulation of Generalized Field Data Based Model for the Electrical Energy Expenditure during Wheat Grinding Operation" was published in *International Journal of Manufacturing Engineering*, 9/3, pp. 149-156, September 2014.
- Dr. V.S. Deshpande's paper entitled "The Ergonomic evaluation of musculoskeletal Loads of wheat grinding machine operations by rapid entire body assessment (REBA)" was published in *National Journal of Industrial Engineering*, VII/7, July 2014 ISSN 0970-2555.
- Dr. V.S. Deshpande's paper entitled "Time and cost optimization in Audio-visual projects through supplier integration - A case study of system Integration Company" was published in *National Journal of Industrial Engineering*, VII/8, August 2014, ISSN 0970-2555.

- Dr. V.S. Deshpande was invited as a judge in CCQC 2014 Silver Jubilee Chapter level Convention and Competition on "Quality Concepts" organized by Quality Circle Forum of India, Nagpur Chapter on 14th September 2014.
- Dr. V. S. Deshpande and Prof. Rajesh Madarkar attended the 18th CEO Conference on "Organizational Effectiveness for Growth and Prosperity" organized by Indian Institution of Industrial Engineering (IIIE) from 4th to 6th July 2014 at Lonavala.
- Dr. I. P. Keswani's paper entitled "Selection of Best Supplier in Furniture Manufacturing Company by Using Analytic Hierarchy Process" was published in *International Journal of Engineering Research and Applications*, 4/8 (Version 1), August 2014, ISSN : 2248-9622.
- Dr. I. P. Keswani paper entitled "Scheduling By Using Fuzzy Logic in Manufacturing" was published in *International Journal of Engineering Research and Applications*, 4/7 (Version 6), pp.104-111, July 2014, ISSN:2248-9622.
- Dr. I. P. Keswani was awarded with Fellowship of Indian Institution of Industrial Engineering (IIIE) at the 56th National Convention of IIIE at Visakhapatnam on 13th September 2014. Prof. Rajesh Madarkar also attended the Convention from 11th to 13th September 2014.
- Prof. Pravin Tambe presented a paper entitled "An integrated approach for production scheduling and maintenance of multi-component system" at the 2014 POMS International Conference held at Singapore from 21st to 23rd July 2014.
- Prof. Priya Khandekar delivered a guest lecture on "Work Study and Productivity" for the students of IIIE graduate ship examination at Mahindra & Mahindra, Nagpur on 20th July 2014.
- Prof. Mangesh Joshi attended a one week STTP on "Advance Quality Engineering Techniques" held at SVNIT, Surat from 4th to 8th August 2014.

STUDENTS' ACCOMPLISHMENTS

- Mr. Anuj Agrawal and Mr. Sameer Ramesh of Third Year



Dr. V.S. Deshpande welcoming Prof. Ashok S. Gadge

- won the regional round of Tata Mutual Fund Simply Finance quiz held at Indore on 8th September 2014 and qualified for the national round.
- Mr. Rahim Malik of Third Year got 2nd position in National Productivity Competition at 56th National Convention of IIIE organized by IIIE Visakhapatnam Chapter from 11th to 13th September 2014 at Visakhapatnam.
- Mr. Kapil Bahal, Dipu Tiwari, Tehjas Singh, Dhanwan Jahangid, and Chetan Daga of Final Year won Gold Medal in CCQC 2014 Silver Jubilee Chapter level Convention and Competition on "Quality Concepts" organized by Quality Circle Forum of India, Nagpur Chapter on 14th September 2014 under the guidance of Dr. V. S. Deshpande.
- Following papers were presented by students of IIIE Nagpur Student Chapter at the 56th National Convention of IIIE on "Productivity: foundation to sustainability" at Visakhapatnam from 11th to 13th September 2014:
 - "Productivity improvement with sustainable development" by Sefali Rao and Kiran Ghotaphode
 - "Small companies productivity improvement strategies" by Shivani Rabra and Kajal Dube
 - "Role of maintenance in productivity improvement" by Amod Kulkarni, Ishpreet Arora, Pratik Patel, and Falak Joshi
 - "Productivity improvement in mattress industries" by Rahim Malik and Vrushali Khorgade
 - "Happiness: key to improve productivity" by Manish Pakhrani and Neha Sapat

CAPACITY BUILDING ACTIVITIES

A GUEST LECTURE ON QUALITY CIRCLE

A guest lecture on "Quality Circle" was organized by the Department on 14th August 2014. The lecture was conducted by Prof. Ashok S. Gadge, an engineering consultant and a resource person from Quality Circle Forum of India, Nagpur Chapter. He talked about how to implement quality circle in educational institute. He discussed in detail the brainstorming and systematic problem solving techniques which can be used by



students to enhance their performance in their academics through the concepts of quality circle. Mr. Gadge explained in brief the various quality circle tools and their utility for solving engineering problems. His detail discussion on concepts and applications of quality circle was followed by brain games and mathematical quizzes. His lecture was very well received by the students and faculty members of the Department. Dr. V. S. Deshpande welcomed Shri Ashok Gadge and elaborated the purpose and stressed the need of quality circle in educational institutes. Prof. Pravin Tambe introduced Mr. Gadge to the audience and Prof. Rajesh Madarkar proposed the vote of thanks.

GUEST LECTURE ON 'SCOPE OF ENERGY MANAGEMENT IN INDIA'

Indian Institution of Industrial Engineering (IIIE), Nagpur Student Chapter, organized a guest lecture on the topic "Scope of Energy Management in India". Mr. Shiva Ilindra, Mr. Rishi Sachan and Mrs. Renuka Khanzode, all of them from SIIB, Pune were the main speakers at this programme.



Starting the lecture, Mr. Rishi Sachan enlightened the students on the importance of Energy Management and the future challenges therein. Touching upon the vast untapped energy potentials, he outlined the increasing dependency of people on petroleum products. He also urged the students to take up MBA programmes in the field of Energy Management and Environment while noting that there would be major requirement of such professionals in future. Mr. Sachan also enlightened the students on how the demand for power is increasing by the day and how the total electricity generated in the country was far less than the actual demand. Calling upon the students to join these programmes at SIIB, he also shed light on the company aspirations and government's interest in this field. The speakers drove home their points with sufficient statistics and showed slides which included data on each and every aspect of Energy Management and Environment. The speakers' presentations included vital information on important aspects such as Favorable Foreign Investment, Energy Efficiency, EMS and Gas Power.

The second session of the lecture was an informative one based on MBA programmes at SIIB. This was conducted by Mr. Shiva Ilindra who gave brief information about "Life at SIIB". Adding flair to the session, Mr. Ilindra added some more interesting things about SIIB which included their placement statistics and record, events at SIIB, infrastructure, faculty and the fun part as well.

ORIENTATION PROGRAM ON GATE 2015

An orientation program on GATE 2015 was organized on 4th September 2014 in the Department by Prof. Rajesh Madarkar for the students of Industrial and Mechanical Engineering under the banner of IIIE (Indian Institution of

Industrial Engineering) Nagpur Students' Chapter.

Prof. Rajesh Madarkar enlightened the students about pursuing PG from top technical institutes in the country. He presented the importance of giving GATE Exam and pursuing higher studies from premier institutes like IIT's, NITIE, NIT's, etc. He guided the students about how should one prepare for the GATE Exam and gave a detailed analysis of the questions that appear in the exam, explained which areas to focus more on while preparing and also the best books to refer to. He informed the students about various job and research opportunities available through GATE. He answered the queries from the students and also shared his personal

experience of GATE preparation and studying at IIT Kanpur. The Lecture was very informative and interactive. It was well received by the students.

MEMBERSHIP DRIVE AND LIBRARY OF IIIE NAGPUR STUDENTS' CHAPTER

Membership for IIIE Nagpur student Chapter for the session 2014-15 is open for interested students of all the branches of Engineering of RCOEM, Nagpur. Prof. Rajesh Madarkar is the faculty advisor of the Chapter. Additionally, IIIE Library has also been formed for the student members in the Department from the fund received from IIIE national Headquarter at Navi Mumbai.

BEYOND ACADEMICS

INSTALLATION CEREMONY OF INDUSTRIAL ENGINEERING SOCIETY AND ENTREPRENEURSHIP DEVELOPMENT CELL

The installation ceremony of Industrial Engineering Society (I.E.S.) and Entrepreneurship Development Cell (EDC) body for the year 2014-2015 was held on 30th August 2014 at the Industrial engineering auditorium. Dr. V. S. Deshpande presided over the function. He enlightened the students



about the different avenues and career prospects in the field of industrial engineering, business and entrepreneurship. Prof. M.R. Jain, Prof. Yogesh Deshpande and Prof. Rakshal Agrawal gave the introductory remarks about E.D.C and I.E.S. cells working in the Department. Dr. I. P. Keswani and Prof D. R. Zanwar gave a brief insight into the world of Industrial Engineering and the career prospects associated with it. All the respective post holders of different cells were presented with their respective badges so as to motivate them to work for the overall welfare and growth of the Department. Student President of I.E.S. Mr. Bhupesh Shivhare and Mr. Sameer Ramesh, Secretary of EDC cell proposed the vote of thanks. The installation ceremony ended on a high with the students and faculty members being presented with an exclusive branch T-shirt. The installation ceremony was followed by cultural night and dinner in the evening.



DEPARTMENT OF INFORMATION TECHNOLOGY

FACULTY CORNER

- Prof. Padma Adane and Prof. Rakesh Kadu attended 'Train the Trainer' Workshop on "Latest Technology Trends in IT" at Infosys Limited, Pune from 10th to 12th September 2014.
- Dr. D. S. Adane's paper entitled "Forensic Analysis for Monitoring Database Transactions", was published in proceedings of Second International Symposium on Security in Computing and Communications in

Computer and Information Science SSCC 2014, CCIS 467, pp. 257-266, 2014. Springer-Verlag-Berlin Heidelberg 2014

- Dr. D. S. Adane's paper titled "Effective Approach for Data Aggregation in Wireless Sensor Network: A Structure free Approach", was published in *International Journal of Applied Computer Science & Mathematics (JACSM)*, 6/1, pp 55-65, DOI 10.2478/jacsm-2014-0004.

BEYOND ACADEMICS

A one-week faculty enablement workshop on "Mobile Application Development" was organized by the Department in collaboration with Infosys Pune from 14th to 18th July 2014. The resource persons of the workshop were Mr. Anuj Jajoo and Mr. Pankaj Bhanushali from Infosys, Pune. 31 faculties from different parts of India participated in the workshop.

The Department organized an orientation program on communication skills by Prof. Akansha Deshpande of Dept of Humanities for Final Year students on 7th July 2014.



A Guest Lecture on "Project Development" by Mr. Anuj Jajoo from Infosys was organized for Final year students on 18th July 2014.



A workshop on "Software Defined Network" by Mr. Yaswant Kulkarni from TCS, Mumbai was organized on 14th August 2014. Faculties from various departments of RCOEM participated in the workshop.



A Seminar on "Defense Services" by alumni of the Department, Mr. Bharat Kanojiya (Indian Army), was organized for the students on 23rd August 2014.



The Department organized personal interview and group discussion sessions by Prof. Amir Khan of DMT for Final Year students on 3rd and 4th July 2014.

DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY CORNER

- Prof. V. V. Shukla was awarded Ph.D. by VNIT, Nagpur for his research titled "Finite Element Analysis and Design Optimization of a Biological System", at the 12th convocation ceremony of VNIT held on 15th September 2014.
- Prof. V. V. Shukla delivered a guest lecture on "Design Approaches in Mechanical Engineering", at G.H. Rasoni College of Engineering, Nagpur, on 22nd August 2014.
- The following faculty members delivered expert lectures in the Orientation Program for IIIE Graduateship Program at Mahindra and Mahindra Farm and Equipment Division, Hingna M.I.D.C, Nagpur on 13th July 2014:
 - Prof. G.R. Nikhade spoke on "Engineering Metallurgy and Heat Treatment"
 - Prof. P.B. Shiwalkar spoke on "Power Metallurgy and Material Testing"

STUDENTS' ACCOMPLISHMENTS

- In the ongoing campus placement drive, 48 Final Year students of the Department have been placed so far and have received offer letters from the ITC Infotech (3), Infosys (22), Tech Mahindra (17), L&T Infotech (3), and Capgemini (3).
- Pratik Patel and Ishpreet Arora of Fifth semester presented a paper entitled "Role of Maintenance in Productivity Improvement" at the 56th National

Convention of IIIE (India Institute of Industrial Engineers) held at Vishakhapatnam from 11th to 13th September 2014.

- Team IMPULSIFIERS of SAEINDIA RCOEM, collegiate club brought laurels to the college at the finals of SAEINDIA SUPRA'14 competition held at the Madras Motorsport Race Track, Chennai on 17th – 20th July 2014. In its maiden run the team was adjudged amongst the top 20 teams out of the 87 teams which participated from all over the country. The car underwent rigorous static and dynamic tests, in which the experts evaluated the vehicle for its design, ergonomics, aesthetics, safety, and handling. The team was applauded for its low cost design by the experts hailing from various automobile companies. The students had a very good learning experience during this event. The team consisted of Mehandra Sengar, Aditya Ganjapure, Aryabhat Darnal, Suman Sourav, Dharmesh Nikhar, Angad Singi, Pooja Yadav, Deenalakshmi Nadar, Vishal Navandre, Palash Kawale, Sumukh Gawshinde, Kunal Wankhede, Abhijeet Chouhan, Abhishek Balekar, Ravindra Singh, Abhishek Jha (VII Sem ME), Palash Mathnikar (VII Sem EP), Navjot Acharya, Soumitra Dhabolkar, Saurabh Bhasme, Dhruva Koti, Ashutosh Kalinkar (V Sem ME), Akshay Kumar (V Sem Ind), Siddhartha Singh, Abhinav Prakash (III Sem ME). Faculty advisors have been Prof. Roshan U Patil, Prof. Bhushan C Bissa (Department of Mechanical Engineering), Prof. Sagar Naidu (Department of Industrial Engineering)



- Students under the banner of SAEINDIA RCOEM collegiate club, added another feather to their cap by clearing the virtual's of SAE BAJA '15, held at G.T.U Ahmedabad, Gujarat on 1st – 2nd August 2014. SAE BAJA '15 organized by SAE INDIA, is an International competition in which the teams have to conceptualize, design, analyze, fabricate and test an ATV (all terrain vehicles). The team is now eligible to fabricate an All-Terrain Vehicle that will be tested and evaluated at an international platform. The main event will be held in the last week of February 2015 at NATRAX-(National Automobile Test Track, Pithampur near Indore, Madhya Pradesh. The team IMPULSIFIERS now carry the distinguished pride of being the only team from central India to qualify for the finals of both SAE SUPRA and SAE BAJA. The team consists of Bhagyashree Chauhan, Ankush Wawoo, Arpit Mundadha(VII Sem ME), Rupak Ghawghawe, Ritesh Yadav, Shubham Hardas, Navjot Acharya, Sanket Gomekar, Digvijay Turkar, Ishant Goyal, Nitish Chandra, Abhishek Kanth, Shubham Baranwal, Shymalee Mishra, Gaurav Badar, Apeksha Tiwari(V Sem ME), Abhishek Mishra, Saurabh Trivedi, Akshay Kumar Singh (V Sem Ind.), Mayank Mohoni, Siddharth Singh, Abhinav Prakash. The faculty advisors are Prof. Roshan U Patil, Prof. Bhushan C Bissa (Department of Mechanical Engineering), Prof. Sagar Naidu (Department of Industrial Engineering)

CAPACITY BUILDING ACTIVITIES

- A guest lecture on "Latest Trends and Prospects in Mechanical Automation technology", was organized for the students of Third semester on 11th September 2014. Mr. Mahesh Sahare, Sr. manager training, Dysmech Consultancy Services Nagpur was the resource person. Prof. Y M Sonkhaskar was instrumental in organizing the guest lecture.
- One week orientation program "PRAGYAT 2014" was organized for Third Semester students from 26th August to 3rd September 2014. The program was divided into four major sessions, planned keeping in mind the requirements of newly joined 3rd semester students to the department. The program started with the session on "Introduction about the Department

and Faculty" by Dr. K.N. Agrawal, HOD. Session on "Module wise Discussion about the subjects in the branch" was conducted by the module coordinators to make the students aware about the various stream and courses in mechanical engineering. A Special session on "Academic Policies Examination System, Discipline and Code of Conduct" was organized in which Dr. Abhijeet Aghashe, Dean Academics, Prof. M.V. Paithankar informed the students about the nuances of the examination and grading system in autonomy.

- Prof. S.R. Kulkarni organized "CREST" (Campus Readiness and Employability Screening Test) in which mock interviews were conducted for the Final Year students, on 10th August 2014 in the Industrial engineering seminar hall. Experts from industries conducted the technical and HR interviews. Students were given feedback about their performance at the end of the activity. The following experts conducted the interviews and assessed the students, Ms. Anushka Kareera (Ex. H.R Manager Global Logic), Mr. Amol Pusadkar (Mahindra and Mahindra Nagpur), Mr. A D Mohgaonkar (Ex. Senior Engineer MSEB), Mr. C S Deshpande (Ex Manager Morarjee Brembana), Mr. Vishwas Badkar (Aerocom), Mr. Sanjay Kulkarni (Industrial Consultant), and Rajendra Khodaskar (Industrial consultant).

STTP ON RECENT TRENDS IN HEAT EXCHANGERS

With an objective of developing research skills an ISTE approved Short Term Training Program (STTP) on "Recent Trends in Heat Exchangers" was organized by the Department from 22nd to 26th September 2014. More than 70 participants attended the STTP from different parts of the State.

In all, 14 technical sessions, including one keynote speech, and one day industrial visit were organized for the participants. The keynote speech was delivered by Mr. Kamlesh Pande, Chief Consultant Forbes Marshall Ltd., Pune. Other prominent speakers were Dr. S. D. Dawande LIT, Nagpur; Mr. R. K. Jain, Koradi Thermal Power Station; Dr. R. B. Yarasu GCOE, Amravati; Dr. V. R. Kalamkar and Dr. S. B. Thombre VNIT, Nagpur; Mr. Amardeep Singh Sethi, ISHRAE, Nagpur; Dr. R. L. Sonlikar

and Prof. A. M. Andhare. In addition to the technical sessions, field visit to Dinshaw's Ice-cream factory at MIDC, Butibori was organized.

The STTP was inaugurated at the hands of Mr. Kamlesh Pande, chief guest of the function. Dr. Harit Rawal, SVNIT, Surat was the Guest of Honour. Dr. R.S. Pande, Principal RCOEM presided over the inaugural ceremony. Dr. Q. H. Jivaji Director, DMT, RCOEM; Dr. R.L. Sonolikar; Dr. V. M. Kriplani, Professor, GHRCE Nagpur, Dr. V.S. Deshpande, Professor Industrial Engineering Department, RCOEM; Dr. K. N. Agrawal, HOD, Mechanical Engineering, were prominently present on the occasion.

Mr. Kamlesh Pande elaborated the need and importance of recent trends in heat exchangers and emphasized on interdisciplinary work to be done in this area. Prof. A.M. Andhare, co-ordinator of STTP briefed about the aims and objectives of the program and appealed to the participants to take maximum benefit out of the deliberations from the experts. Dr. K. N. Agrawal, in his address, reviewed the achievements of the Department. He emphasized the objective of STTP as to add multidimensional technical skills to transform an engineering graduate into a complete technology professional. Dr. V.S. Deshpande, appealed to the students to avail such opportunities provided to them through STTP and enrich their knowledge to become professionally competent. Dr. R. S. Pande accentuated the importance of technical skills, professional knowledge and multidisciplinary research as upcoming needs for the future. Prof. S. S. Deshmukh presented the vote of thanks. The STTP aimed at bridging the gap between academic curriculum and ongoing Research was successfully concluded with the valedictory function, in which all the participants were given their participation certificate. The STTP was coordinated by Dr. K. N. Agrawal, and Prof. A. M. Andhare, Prof. S.S. Deshmukh was the organising secretary, Dr. S. D. Moghe, Prof. S. A. Patil, Prof. S.A.Giri, Prof. A.D. Urade, Prof. R. M. Waghmare, Prof. P. B. Shiwalkar, Prof. Y. M. Sonkhaskar, Prof. N.P. Gudadhe and Abhijit Tambe worked hard towards successful organization and conduction of the STTP.

- Industrial visit for 3rd semester students were organised to MSRTC Central Workshop, Kinetic Gears

and Heat Treat Well MIDC Hingna Nagpur on 9th September 2014. Prof. R. M. Waghmare, Prof. P. B. Shiwalkar and Prof. N.P. Gudadhe accompanied the students.

- 7th semester students visited Ashok Leyland, MIDC, Bhandara, on 13th September 2014. Prof. R. M. Waghmare, Prof. P. B. Shiwalkar, Prof. S. R. Kulkarni and Prof. B. C. Bissa accompanied the students.

BEYOND ACADEMICS

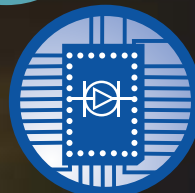
- Installation Ceremony of MECHASSO, (Mechanical Engineering Students Association), EDC (Entrepreneurship Development Cell), SAE (Society of Automobile Engineers) and Robotics Group for the year 2014-2015 were held on 4th September 2014 at the Industrial Engineering Seminar Hall. Prof. S. R. Kulkarni, Faculty-In charge briefed about MECHASSO and outlined the plan of various activities to be undertaken. He also urged the students to actively participate in all activities that will be carried out by MECHASSO throughout the year. Dr. V.S. Deshpande presided over the function. He congratulated all the office bearers of various student bodies and advised the students to actively participate in co-curricular and extracurricular activities organized by them. Prof. M.R. Jain motivated the students to take entrepreneurship as one of the career option. On this occasion the students of team IMPULSIFIERS were felicitated for successful fabrication of F-1 Car.

IMPULSE'14

The Annual Cultural night of MECHASSO (Mechanical Engineering Students Association), IMPULSE' 14 was organized on 5th September 2014. The event saw various performances from the students. The evening began with Ganesh vandana, which was followed by various musical performances by the student artists of the department. Some soulful performances mesmerised the audience on one hand while the rock band made them groove to the beats of popular bollywood numbers. A unique fashion show by the boys' hostel on the theme "Dashavatar" depicting the ten avatars of Lord Vishnu was applauded by all. The cultural night was followed by dinner.

BASIC SCIENCES

DEPARTMENT OF HUMANITIES



- Dr V.H. Asudani and Prof. Monika Seth presented a research paper entitled "Academic Policy of an Ideal College" at UGC sponsored national conference on "Development Of Quality Culture" organized by Santaji Mahavidyalay, Nagpur on 20th September 2014
- Prof Pratishruti Singh and Dr V.H. Asudani presented an article entitled "Educational Reforms and Suicide" in two-day UGC sponsored national conference on "Educational Reforms And Its Impact On Suicidal Ideation Of Students" organized by Department of Psychology SMT. Binzani Mahila Mahavidhyalay Nagpur on 10th and 11th September 2014. This article was also published in the conference proceeding with ISBN-978-81-926267-1-0 pg.45.
- Prof. Monika Seth and Dr V.H. Asudani presented an article entitled "Suicidal Ideation In Students Pursuing Professional And Non Professional Courses" in Two day UGC sponsored national conference On "Educationl Reforms And Its Impact On Sucidal Ideation Of Students" organized by DEPT. of Psychology SMT. Binzani Mahila Mahavidhyalay Nagpur on 10th and 11th September 2014. This paper was also published in the conference proceeding with ISBN-978-81-926267-1-0 pg.13.
- Prof. Monika Seth and Dr V.H. Asudani presented an article entitled "Humanitarian Engineering: A Strategy For Inclusive Development" in fourth annual two day international conference ELIXIR organized by Datta Meghe Institute of Management studied, Nagpur on 19th and 20th September 2014.
- Prof. Monika Seth and Dr V.H. Asudani's research paper entitled "Suicidal Ideation In Students Pursuing Professional And Non Professional Courses" was published in Asian Academic Research Journal of Multidisciplinary, 1/ 25 September 2014 with IMPACT FACTORS-Index Copernicus (ICV)-5.05: ISRA-2.015: GIF-0.50
- Prof. Rebecca Gaigole, Dr. V.H. Asudani, and Prof. Monika R. Seth's research paper entitled "Grammatical Error: A Comparative Study Of Efl / Esl Under Garduate Engineering Students" was published in Confluence journal, IV, 2014 ISSN 2250-138x published by A Gaikwad Patil Group Publications.
- Prof Akanksha Deshpande , Dr. V.H. Asudani, and Prof.

Monika R. Seth's research paper entitled " Dramatics For Development Of Language" was published in Confluence journal, IV, 2014 ISSN 2250 - 138x published by A Gaikwad Patil Group Publications.

- Dr. V.H. Asudani was invited to deliver an expert lecture on "Changing Role Of Teacher In Globalised World" in special summer school Program sponsored by UGC, organized by UGC-Academic Staff college, Nagpur on 30th July 2014.
- Dr. V.H. Asudani was invited to deliver an expert lecture on "Changing role of teacher in 21st Century" in special summer school Program sponsored by UGC, by UGC-Academic Staff College, Nagpur on 14th August 2014.
- Dr. V.H. Asudani was invited to deliver a key note address in inaugural function of Study Circle by VMV College, Nagpur on 25th September 2014
- Dr. VH Asudani was invited by Sindhu, a cultural and literary organization to participate in National level poets meets in Bhopal on 22nd July 2014
- Prof Pratishruti Singh has bagged the 2nd position in the order of merit in M.A Linguistics examination conducted in summer 2013 by RTM Nagpur university.
- Ms. Pratishruti.S.Singh conducted a guidance programme on 'Smart ways to crack group discussion' for the seventh semester students of Electronics Engineering branch as a part of their placement training programme
- Dr. V.H. Asudani and Prof. Monika Seth and Prof Akanksha Deshpande Published a research paper entitle "The Impact Of Stress Level And Their Coping Strategies: A Comparative Study On Female College Teachers And Female Home Makers" in International Journal of Advanced research with ISSN 2320-540 and Impact Factor 1.650 IC value 4.96 Issue September 2014.

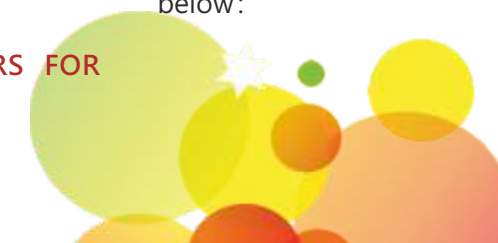
BEYOND ACADEMICS

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:

REEF ANNUAL EVENT - GLOBAL TIGER WEEK 22ND TO 29TH JULY 2014

REEF (Ramdeobaba College Engineers for Environment Forum) an environment club of Shri Ramdeobaba College of Engineering and Management (RCOEM) took the initiative to create awareness about tiger conservation, In association with NDTV, Aircel, Wildlife Conservation Trust and Sanctuary Asia, REEF celebrated tiger week which culminated into Global Tiger Day on 29th July 2014. During the entire week REEFians created awareness about situation of tigers in India and how they can be saved. This was carried on through a signature campaign that was undertaken in 26 schools like Bhavans in Ashti, Civil Lines and Shrikrishnanagar, CPS and Swaminarayana of Wardhaman Nagar, St Ursula's and Tip Top Convents, Bishop Cotton, St Xavier's - MIDC, Tata Parsi, and various others. The drive was also conducted at Empress Mall and Maharaj bagh where a large and diversified audience was addressed on the issues of tiger conservation. A street play was also performed in Maharaj Bagh. 24,000 signatures were collected through the awareness/signature drive which gave REEF the 5th all-India rank among all schools and colleges. A message drive in RCOEM campus was also undertaken. On Global Tiger Day-29th July a nature trail was organized by REEF at Raj Bhavan in which 50 students from RCOEM and other colleges and schools participated. Two naturalists of BNHS created awareness about biodiversity and its importance. After the trail REEFians performed a street play "Jaanwar Kaun?" On the same day they along with their musician friends from RCOEM, REEF composed and aired a special song on 94.3 MY FM to spread the message on tiger conservation. Glimpses of the activities undertaken are presented below:



SIGNATURE CAMPAIGN



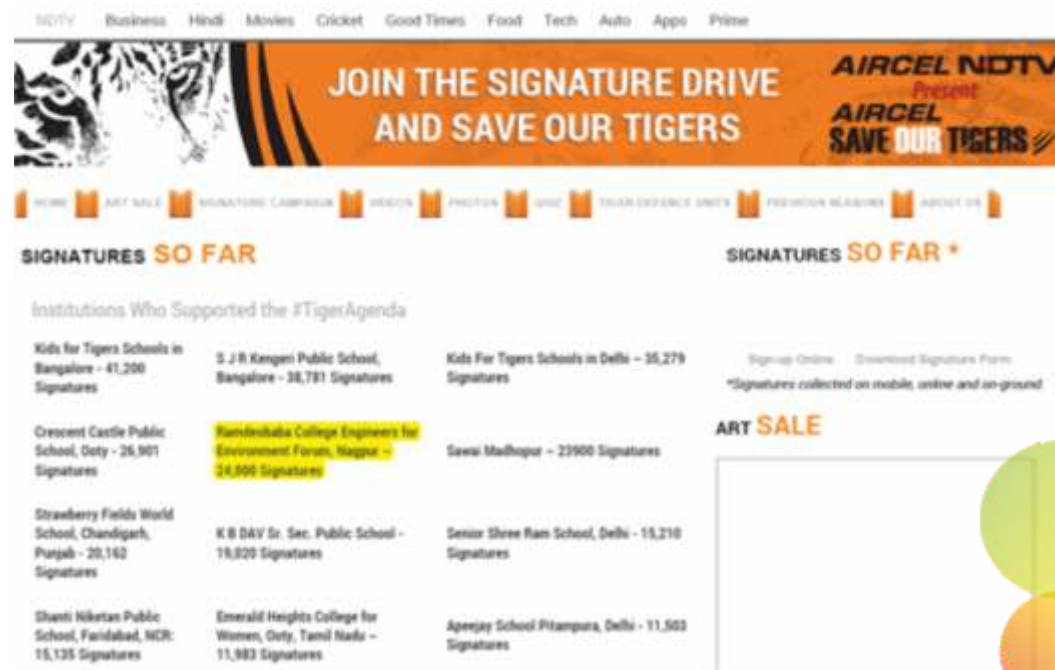
Supriya Kawadkar (an alumni of REEF) and Vishkaha Jaiswal of REEF getting signatures



Indrayani Thakare speaking to the students of Tata Parsi School



REEFians with their friends from the Music Club and RJ Preeti of 94.3 MY FM



A screen shot of the NDTV website that displays REEF and its all India standing

NATURE TRAIL IN RAJ BHAVAN (GOVERNOR HOUSE)



Street play being performed by REEFians



After the nature trail



Volunteers of BNHS with students participating in the nature trail



Students leaving their messages on tiger conservation in the College canteen

RECRUITMENT AND SELECTION OF REEF'S NEW MEMBERS

REEF undertook its drive for selection of new members 23rd August 2014. Over 120 students from various branches. Through a long process of interview by various panels of REEF members, 30 students were selected.

REEF alumni, Mr. Vatsalya Mathur (Tech. Mahendra) was one of the panelist.

ORIENTATION AND INDUCTION OF NEW REEF MEMBERS AT GOREWADA NATURE TRAIL



Vatsalya Mathur with Sahil Dalvi, Vishkaha Jaiswal and Kritika Joshi



REEF members with mentor faculty at Gorewada nature trail

The newly inducted REEF members were taken on a nature trail to Gorewada by the current members of REEF, its alumni and Mentor faculty. This was part of their orientation to environment. The trail was conducted on 24th August 2014, where a bird identification walk of 6 kms was undertaken. After the walk a session on introduction of new and old members was conducted. REEF members who worked exceptionally well for the Global Tiger Day events were facilitated, and the new members were introduced to various domains of environment that REEF works for. The event ended with games.

MOTHS AND BUTTERFLY WORKSHOP AT PENCH TIGER RESERVE – 5-6TH SEPTEMBER 2014

Ten REEF members (Harjot Kahai, Sahil Dalvi, Hitesh Goral,



Neha Mujumdar explaining the life cycle of Moths and butterflies at Conference centre of Amaltas, PTR



Participants on a nature trail in the buffer zone of PTR

Indrayani Thakare, Omkar Kekre, Shivam Agarwal, Sumit Naza, Mayuri Kotian, Taneesh Godre, and Shreyas Kandelwal) accompanied by REEF mentor faculty (Dr. (Ms.) Deepshikha Mehra) attended a workshop on "Moths and Butterflies" at Pench Tiger Reserve (PTR) at Amaltas conference center, Sillari on 5th and 6th September 2014.

The workshop was organized by an NGO 'Mad over Wild'. On 5th September a session was conducted by Neha Mujumdar, a Lepidoptera (Moths and Butterflies) expert where REEF members were introduced to the lives of moths and butterflies and their significant place in the ecosystem. At night a practical session was conducted where the participants were asked to identify moths that appeared on special lights put up to attract moths. On 6th the participants of the workshop were taken on a guided nature walk in the buffer area of the Tiger Reserve where they were given exposure to various elements of biodiversity. The workshop ended with distribution of certificates.

AWARENESS TRIP TO WASTE MANAGEMENT PLANT

REEF had made a report on creating RCOEM as a zero waste zone during its participation in IIT - Tech fest



REEF members at the NMC's sewerage treatment plant

competition in October 2012. In order to renew and make further changes in it, REEFians undertook an awareness trip to NMC's waste management and Sewerage treatment plant at Bhandewadi in Nagpur on 16th September 2014. Waste generated throughout the city creates hazards to health and environment. The visit to the plant brought interesting facts about automation in waste management, its effectiveness and the need for public awareness for waste segregation. 16 REEF members visited the two plants. Future activities based on the visit will be undertaken in the new session. Pratik Gupta, REEF member, coordinated this trip. Pratik Gupta (7th sem EN) has been involved with the waste management domain of REEF since 2012. As a result he has taken up his Final Year project on automation in waste management. He will be using his technical knowledge and knowledge gained through REEF in this project

TEACHING OF UNDERPRIVILEGED STUDENTS

Since 2012, REEF members have been regularly engaged in teaching underprivileged students. In this session too they continued with their effort. A need assessment exercise was carried out first by REEF members where they



Need-assessment exercise



Sahil Dalvi and Omkar Kekre explaining the solar system through a game

found out from the underprivileged students specific subjects in which they needed help. Accordingly a time table was made where each REEF member was allotted a specific day of teaching. Many of the aspects of science were taught through games. The underprivileged students were also taken for the nature trail to Governon house conducted on Global Tiger Day on 29th July 2014. This was keeping up with the objective of REEF to introduce these children to importance of environment. REEF members who actively teach the students are Vishakha Jaiswal and Sudip Banerjee (Coordinators), Omkar Kekre, Shrusti Mehatkar, Radhika Kale, Madhulika Dolke, Monali, Bhagyashree Girhe, Ashish Chandan, Aditya Chalpe, and Kritika Joshi

OTHERS ACTIVITIES OF THE DEPARTMENT

Students of the college presented a play on the occasion of Independence Day i.e 15th August and for the

NAAC team on 18th September 2014 under the guidance of Drama club coordinator Prof. Akanksha Deshpande.

• Prof. Pratishruti.S.Singh coordinated the Music Club's musical presentation on Independence Day on 15th August 2014. She also presented a solo song on that day.

DEBATE COMPETITION

The second year students of the College brought laurels by bagging the Runner's up trophy in the recently held Madhur Dahake Memorial Debate Competition, organized at M.P. Deo Memorial Dharampeth Science College, Nagpur on 27th September, 2014. The team comprised of Ath Tiwari, Dept. of Mechanical Engineering and Utkarsh Rathi, Dept. of Industrial Engineering. Utkarsh



Prof. Pratishruti Singh with the music team for 15th August function

was also adjudged as the Best Speaker and was awarded a cash prize of Rs.2,500. The topic for the debate was, 'Insensitiveness has diverged the youth from its goal'. Twenty-nine teams from Nagpur region had participated in the competition. Prof. Pratishruti Singh, Dept. of Humanities motivated and guided the students.



Winners, Utkarsh Rathi and Ath Tiwari with Dr. R.S. Pande, Principal, RCOEM; Dr.V.H. Asudani, HOD, Humanities; and Prof. Pratishruti Singh, Dept. of Humanities

DEPARTMENT OF MATHEMATICS

- The following faculty members of the Department presented papers at National Conference on "Emerging Trends in Mathematics and it's application in science and Engineering" organized by Department of Mathematics and Humanities, YCCE, Nagpur, 24th and 25th July 2014:
 - Prof. B. R. Chide presented "A Critical review on Jacobson Radical"
 - Prof. R. G. Ghumde presented "Converse of Schur's Lemma and related results",
 - Prof. P. O. Bagde presented "Principal invariants in Canonical system in V5"
 - R. D. Giri and B. R. Chide's paper entitled, "Prime radical ternary hemirings", was published in *International Journal of Pure and Applied Mathematics*, 94/5, 2014, pp. 631-647, ISSN No. 1311-8080.
- Prof. P. O. Bagde attended a state-level Workshop on MATLAB and SIMULINK (MATSIM-2014), Organized by Department of Mathematics, St. Francis De Sales College, Seminary Hills, Nagpur, 5th to 7th September 2014.

DEPARTMENT OF PHYSICS

- Prof. G.G.Sahasrabudhe prepared and presented the Academic Self Evaluation Report of academic session 2013-14 in academic council as well as in internal Quality Assurance Cell IQAC.
- Prof. C.P. Joshi reviewed the Major Research project entitled "Microwave assisted synthesis of spinal oxide phosphors for display applications and white light generation" send by DST.
- Dr. (Mrs) S.N.Kulkarni attended 86th Orientation Program held from 25th June to 22nd July 2014 at Academic Staff College, Nagpur.
- Dr. Renuka Nafdey delivered a lecture on "Introduction to Nanoscience & Nanotechnology" in special summer school-2014 for Engineering Students in Govt. Polytechnic Nagpur.
- Dr. Renuka Nafdey presented paper entitled "Modification and Improvement in Mechanical Properties of Polymer Composites" in International Conference on Advances in Engineering and technology (ICAET-2014), Pune, organized by SPJ Centre for Multidisciplinary Research (SCMR) Pune, India, from 1st to 3rd September 2014.

DEPARTMENT OF PHYSICAL EDUCATION



FACULTY CORNER

- Dr. S Dogra's paper entitled "Environment and Sports" was published in *International Journal of Scientific Research Journal of Sports and Physical Education (IOSR-JSPE)* e-1/6 (Jul-Aug. 2014), ISSN: 2347-6737, p-ISSN: 2347-6745.
- Dr. S Dogra and Prof. Nitin Jangitwar attended UGC sponsored national conference on "Mental Health and Endurance among Sports Persons" organized by Krida Mandals Nagpur Sharirik Shikshan Mahavidyalaya, Nagpur on 23rd August 2014.

STUDENTS' ACCOMPLISHMENTS

- The College Boys' Chess team secured first position whereas the girls' team secured second position in University level Chess Meet from 15th to 17th September 2014.
- Table Tennis Girls team was Champions in RTMNU Intercollegiate Tournaments held from 11th to 13th September 2014.



- Table Tennis Boys team was 2nd Runners up in RTMNU Intercollegiate Tournaments held from 8th to 10th Sept 2014.
- The Football and Basketball men teams secured the runners-up position and Volleyball girls' team secured the fourth position in the Punjabrao Deshmukh Krida Mahotsava organized by Dhanwate National College Nagpur from 17th to 20th Sept 2014. College Volleyball (M) team also participated in DNC Tournaments 2014.



College-level Sports Cup tournaments of TT (M&W), Chess (M&W), and Badminton (M&W) were completed in this quarter.

BEYOND ACADEMICS

- Sports secretaries were selected through interview and core committees of Sports were formed.

NATIONAL SOCIAL SERVICE (NSS)

- NSS secretaries were selected through interview and Core committees of NSS were formed.
- NSS organized Independence Day program



NSS Unit of RCOEM organized PRARAMBH- an introductory program of NSS for 2nd year students on 13th September 2014.



A blood donation camp in collaboration with Hedgaewar blood bank was organized on 23rd August 2014.

- On the occasion of Teachers' day tree plantation were done by NSS volunteers on 5th September at the College campus.

POST GRADUATE COURSES

DEPARTMENT OF MANAGEMENT TECHNOLOGY



FACULTY CORNER

- Indian Institution of Industrial Engineering conferred Dr. S. R. Gollapudi Award 2013-14' to Dr. Rupesh S. Pais for contributing substantially to the spread of Industrial Engineering profession and the institutional activities. It was awarded at the 56th National Convention of IIE at Visakhapatnam from 11th to 13th September 2014
- Following papers of Dr. Abhijeet Agashe's were published
 - "The Ergonomic Evaluation of Musculoskeleton loads on wheat grinding machine operators by



rapid entire body assessment" in Industrial Engineering Journal, VII/7, pp. 34-37, July 2014.

- "Formulation of Generalised Field Data Based Model for Electrical Energy Expenditure dummy wheat grinding operations" in *Journal of Manufacturing Engineering*, 9/3, pp. 149-146.

- In recently held 17th State level Master's Championship 2014 on 20th and 21st September 2014 at Ahmednagar, Dr. Sunita N. Dhote won two gold medals in 1 mtr and 3 mtrs diving events.



Dr. Sunita Dhote with Shri Govindlal Agarwal, Dr. R. S. Pande and Mrs. Indu Agrawal

- Dr. Kanchan Naidu's following papers were published in *National Journal Shodh-Pioneer Journal of IT & Management*, 10(1), ISSN-0974-8954.
 - "Analytical Study of importance of behavioural finance"
 - "Critical analysis of Vision and Mission statement with special reference to selected companies in FMCG Sector"
- Dr. Sunita Dhote was appointed as Official Adjudicator of Asia Book of Records, under which she certified the 'Asia's largest Human Heart Beat Simulation' - the record which was created by KMC Hospital Mangalore, part of Manipal Health Enterprises.

- Dr. Neeta Shah
- Dr. Abhijeet Agashe
- Dr. Rajiv Khaire
- Prof. Ruchi Sao

GYANSAROVAR



STUDENTS' ACCOMPLISHMENT

- Vikita Agarwal, student of the academic session 2010-12 received 7 gold medals at the hands Dr. A.P.J. Kalam at the 100th Convocation of RTMNU.



- Anniruddha Bapat of I Sem won the 1st position in the "Personality Contest" in the inter-collegiate event ANUBHUTI-2014 conducted by Dr. Ambedkar Institute of Management Studies and Research, Nagpur, 26th September 2014

- Mehak Khurana and Yash R. Kapoor of I Sem MAM achieved the title of "Ms. Fresher" and "Mr. Fresher", respectively in Impera 2014 competition held in AARUNI 2014 on 27th September, 2014.

CAPACITY BUILDING ACTIVITIES

- DMT organized MDP for Middle Level Executives on "Problem Solving and Leadership Skills" at Orange City Water Pvt. Ltd., Nagpur. 22 Executives were trained by:

The Department organised a two day summit 'GYANSAROVAR' and installation on 30th and 31st August 2014. It is an intercollegiate event that provides a platform to management students in the region to explore and develop management skills.

Shri Mukund Mohta was the chief Guest for the inaugural function. The function started with the lighting of the lamp and the welcome address was delivered by Dr N. V Shah, Head –DMT. The Chief Guest delivered the key note address and encouraged the students to adopt values for better life. He emphasized on the importance of clarity of vision. He also said that the strength of every successful person is his/her ability to stand his/her ground and face adversities with courage. The Presidential address was delivered by Prof Q. H Jeevaji, Director –DMT. The vote of thanks was proposed by Mr. Akash Kundra, President of DMT Forum. During the course of two days various programmes like Ad Mania, Kotler's Yard, Dalal Street, and BIZ Quiz etc was conducted. These programmes give the students a chance to explore and implement management principles. The programme concluded on 31st Aug, 2014 with a cultural event which provided the students an opportunity to show case their talents.

INSTALLATION

The office bearers of the DMT Forum were selected through an interview process. Mr Akash Kundra was selected as the President of the Forum while Shraddha Deshmukh, Aditya Agrawal, Jayesh Goyal, and Saptika Samant joined as Vice President, Secretary, Joint Secretary and Treasurer respectively. Executive Committee members inducted on the same day were:

Shivali Singh Chandel, V. Sagar Naidu, Alfiya Khan, Shilpa Tiwari, Vaibhav Jaiswal, Ayushi Mittal, Shirin Chimthanawala, and Priya Bijapurkar. The day also witnessed the induction of Class Representatives. Varun Dubey and Avinash Gondane were inducted as the CRs of MBA 1st Year Shift I & II while Shivani Kavi and Yash Kapoor became the Class Representatives of MAM II Year and MAMI Year, respectively.

DEPARTMENT OF COMPUTER APPLICATIONS**FACULTY CORNER**

- Prof. Preeti Voditel was awarded Ph. D for thesis titled "Use of Association Rule Mining and Fuzzy Logic for Stock Market Recommendations", in the Convocation held on 15th September, 2014 at VNIT, Nagpur. The research was completed under the supervision of Dr. U. A. Deshpande, VNIT, Nagpur
- Dr. D. S. Adane, Prof. S. S. Uparkar, and Prof. S. D. Upadhye signed a consultancy project entitle "Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA) for Nagpur and Amravati Zone" of SDSS career Solutions, Tilak Nagar, Nagpur based on Big data Analysis and Statistical Hypothesis Testing.
- Prof. Deepali Bhende's paper entitled "Detection and Prevention of Gray Hole and Black Hole Attack in MANET" was published in International Journal of Computers and Technology, 13/9, pp. 5029-5038, August 2014, with ISSN 2277-3061, Impact Factor 1.532.
- Prof. Shruti M. Rakhunde's paper entitled, "A Novel and Improved Technique for Reversible Data Hiding using Visual Cryptography" in International Journal of Advanced Research in Computer and Computer Engineering (IJARCCE), 3/6, ISSN (Online): 2278-1021 ISSN (Print): 2319-5940.
- Prof. Pravin Y. Karmore, Prof. Priyesh A. Jaiswal, Prof. Lalit Agrawal attended Infosys Campus Connect workshop on "Mobile App Development" Conducted

by Infosys Limited, Pune and Department of Information Technology, RCOEM from 14th to 18th July.

- Prof. Anand Padwalkar attended a one day workshop on "High Performance Embedded System Design Using FGPA" organized by the Institution of



Engineers (India), in association with EDAS Technologies and TGPCET, Nagpur, on 6th September 2014.

CAPACITY BUILDING ACTIVITIES**PARENT-TEACHER MEET ON 27TH SEPTEMBER 2014:**

A Parent-Teacher Meet was organized by the Department on 27th September 2014. The academic performance of the students was discussed with the parents. Handouts were provided that highlighted the achievements of the students and the staff and the activities organized by the Department. Dr. D. S. Adane, HOD met all the parents and took their feedback and suggestions for overall improvement.

- The Department has signed a MoU with "Praxis Logica", Nagpur, a software company. The objective of the MoU is students' internships, sharing of teaching resource, guest lectures, FDPs, etc.
- The Department has signed a MoU with Vijayanta Vikram Vikas Santha's: Engineer's English School, Kukde Layout, Nagpur to conduct various activities for

students and staff of school like guest lectures on current IT Trends, organizing training sessions, conducting hands-on session, etc.

- The Department organized brush-up sessions on technical topics and aptitude development for MCA Final Year students under departmental training and placement activities. The sessions were organized on every Saturday in the month of July and August 2014 and were coordinated by Prof. A. Thakare and Prof. K. Roy.
- Two guest lectures were organized for the Final Year students by the alumni of the Department. These were:
 - "Placement Talk About IT Sector" by Mr. Vikram Naruka, Associate Software Engineer, Accenture India Pvt. Ltd., on 12th July 2014. He is also an Alumnus of the Department.
 - "How to crack Informatica Interviews" by Kartiki Maholkar, Software Engineer (QA), Informatica Business Solution, on 30th August 2014.

A good teacher is
more important
than **TECHNOLOGY**
in the **CLASSROOM**



TRAINING AND PLACEMENT DEPARTMENT

PLACEMENTS 2015 BATCH

Infosys Ltd selected 341 students from RCOEM followed by 231 by Tech Mahindra. The total number of students placed is the highest campus placement figure of any college in Maharashtra. Tech Mahindra and Infosys conducted the process on 11th and

12th September and 16th and 17th September, respectively.

PRESENT STATUS OF PLACEMENTS

For the 2015 batch 15 companies visited the campus in this quarter and selected 774 students. Results from one company are pending.



Name of the Company	Visited on	Total Selections
Persistent Projects	8-Aug-14	9
ITC Infotech Projects	11-Aug-14	16
Infocepts Projects	13-Aug-14	7
MuSigma	21-Aug-14	21
Informatica	4-Sep-14	1
Nvidia	8-Sep-14	2
Tech Mahindra	11-Sep-14	231
Infosys	16-Sep-14	341
Persistent	18-Sep-14	14
Capgemini	20-Sep-14	35
L&T Infotech	22-Sep-14	63
Tesco	24-Sep-14	9
Cybage	27-Sep-14	10
HSBC	29-Sep-14	10
L&T ECC	22-Sep-14	Results awaited
Fluor Daniel	29-Sep-14	5

2014 BATCH (Current Batch)

Total No. of Placements : 596

Total No. of Companies Visited : 73 (Core 35 + IT 38)

USA CONSULATE INTERACTION WITH RCOEM STUDENTS :

A presentation from US Consulate on "Studying in the United States and the visa process" was organized in the College on 24th September 2014. Prof. Anupam Kher Dean-T&P welcomed Mr. Jesse Walter, Vice Consul of the Visa Application Centre, Mumbai. Mr. Himanshu Dev and Ms. Michelle S Murzello also visited our college and interacted with the students. The entire programme was coordinated by Prof. Anish Goel, EC Dept



BEYOND ACADEMICS

IEEE

IEEE · INDUSTRIAL VISIT



IEEE members of RCOEM-students' branch visited the Central Railways governed Electric Loco shed situated at Ajni, Nagpur on 8th July 2014. The visit began with a lecture by the Section Engineer of the shed Mr. R. K. Mishra, who provided the details about various departments of the loco maintenance and management of the engines in the shed. He further explained the components, supply properties, circuit diagrams and

various aspects of the locomotive shed. The visit went further with the members gaining practical knowledge about the working of the loco and various components of the locomotives were explained by the display of transformers, pantographs and miniatures brakes.

The students inquired about many technicalities of the machinery used in the shed. They also got acquainted with the functioning and maintenance of the shed. They also wanted to know the details about the job prospects in the railways and the criteria for selection as well. The industrial tour was supervised by IEEE Branch Counselor Prof. (Mrs.) R. R. Khandelwal. It was coordinated by Student Chair Rachit Verma and Vice Chair Prasanna Humbarde.

- IEEE student members Perna Shrivastava, Saima Ali and Kritika Joshi participated in Poster presentation contest at the Humanitarian Technology Conference at Chennai on 7th and 8th August 2014. Their presentations were:

- Perna Shrivastava and Saima Ali presented "Animals as disaster fortune-teller: A technological opportunity for human survival"
- Kritika Joshi presented "Environment and

technology complete a full circle: Lessons from Google and Boeing”

Workshop on Robotics: The members of IEEE- RCOEM Students' Branch organized a Robotics workshop on 27th and 28th of August 2014. The workshop was exclusively for the Second year students of all engineering disciplines. The two-day workshop was attended by more than 50 participants. This workshop is a Flagship event of IEEE RCOEM Student Branch with the unique feature that it is organized by the students, for their peers. All preliminary requisites of robotics were taught in these two days, along with development of a “Line Follower Robot” . The workshop began with a talk on 'Introduction to Robotics' by Prof. P. Shewalkar of Mechanical Engineering Department, RCOEM, in which the basics of robotics were explained with the help of visual aids. Teaching committee included Sneha Bharwesh, Sahil Dalvi, Disha Ghoshal, Smital Kamdi, Nazib Sorathiya, Saima Ahmed and Akansha Singh. The event took place under the guidance of IEEE Student Branch Counselor, Prof. Richa Khandelwal, Chair - Mr. Rachit Varma, and Vice-Chair - Mr. Prasanna Hambarde.



workshop Legged iCellBotix on 10th and 11th of September 2014. The workshop was conducted by Mr. Amey Bhopi of the Technophilia Systems, Mumbai in association with Robotics and Computer Applications Institute of USA. Dr. R. S. Pande, Principal, RCOEM appreciated students' enthusiasm in attending technical workshops. Prof. V. T. Barhate, HOD, Electrical Department and Chief Coordinator of the workshop, Prof. G. Goyal of EESA and Prof. Mrs. Richa R. Khadelwal, IEEE student Branch Counselor along with student representatives of EESA and IEEE Student Branch worked hard to make this workshop a success.

WORKSHOP ON LEGGEDICELLBOTIX

IEEE (Institute of Electrical and Electronics Engineers)- RCOEM branch and EESA (Electrical Engineering Students Association) jointly organized a two days

Education is all a matter of building bridges.



ALUMNI ASSOCIATION

VISIT OF MR.CHANDRU IYER AND MRS. SANGITA RAJANKAR (EN 1998)



Mr.Chandru Iyer International Business Development Director at Kingston Smith and Mrs.Sangita Rajankar, Scientist, Maharashtra Remote Sensing Center, Nagpur visited Electronics Department on 19th July 2014. Mr. Iyer and Mrs. Rajankar are both from EN batch of 1998. Prof. Mridula Korde, Secretary RCOEM Alumni Association, welcomed them. Mr. Chandru Iyer in an interactive session he guided the students regarding

academic and business opportunities for students in India and abroad. Dr.R.S.Pande, Principal, RCOEM, felicitated Mr.Chandru Iyer and Mrs. Sangita Rajankar with a memento and had a fruitful interaction with them. Mr.Tushar Marghade, President, RCOEM Alumni Association and Prof.Anupam Kher, Professor Incharge Alumni Association and Dean T&P were present during interaction.

VISIT OF DR.SAURABH LOHOKARE (EN 1998)

Dr. Saurabh Lohokare, Engineering Manager at Intel Corporation, San Francisco, USA and esteemed alumni of RCOEM 1998 Electronics batch, visited Electronics Department on 22nd August 2014 to interact with M.Tech.(VLSI) students. Prof. Mridula Korde, Secretary RCOEM Alumni Association, welcomed him. Dr. Lohokare in through his lecture motivated students regarding basic technical study as well as different aspects of Engineering with stress on Electronics branch related subjects. He shared his experiences in Semiconductors and VLSI industry and urged students to take right path at the right time. Dr. R.S. Pande, felicitated Dr.Saurabh Lohokare with a memento.

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