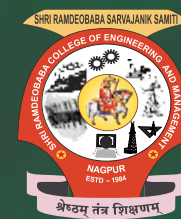


# REFLECTION

## NEWSLETTER

OF  
SHRI RAMDEOBABA COLLEGE OF  
ENGINEERING AND MANAGEMENT

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### SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT, NAGPUR

Ramdeobaba Tekadi, Gittikhadan, Nagpur - 440013  
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Shri Ramdeobaba Temple on Campus



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#### LETTER FROM THE EDITOR

*Dear Readers*



The first quarter of 2015 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 highlight of the quarter was the Wipro's Earthian awards to REEF-RCOEM team with a cash prize of Rs. 1.5 Lakhs, successful conduction of mega events like Technovision 9.0 and Pratishruti, and many Ph.Ds awarded to faculty members.

Enjoy reading.

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

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## TECHNOVISION 9.0 MOMENTOUS EVENTS AND AWARDS



### A Technical Event organized by IEEE-RCOEM Student branch



The IEEE RCOEM Students' Branch organized a two-day technical festival, Technovision 9.0, on 11th and 12th February 2015 in the College. Over the years, Technovision has succeeded in keeping students abreast with the constant technological developments that do not feature in text books. The ninth version of this technical fair offered something for everyone in the form of five workshops and seven events.

The pre-event workshops started on 6th February 2015. The two-day workshop on Mobile Making, conducted on 6th and 7th February 2015, was a golden opportunity for the technocrats to explore the world of mobiles. It covered the basics of microcontroller, GSM modem interfacing and Arduino based mobile. Also conducted on 6th and 7th February was the Workshop on Automobile Design. This workshop proved to be a great learning experience for students as they were

given an opportunity to work on dis-assembled engine parts and components and learnt about the design of chassis and fabrication of automobiles. Workshop on AutoCAD on 7th February 2015 helped the participants to understand the concepts of 2D and 3D designing in the fields of Mechanical, Civil and Electrical Engineering. In an attempt to keep up with the latest happenings in the industry, Technovision 9.0 included a Workshop on Big Data and Hadoop and another one on Gesture Controlled Robot. Both these workshops were 2-day affairs conducted on 9th and 10th February, 2015. Big Data - Hadoop workshop provided fundamental knowledge and hands-on experience of Hadoop Distributed File System, map-reduce framework and data analytics using Hive. The Gesture Control Robotics Workshop was dealt with Arduino based gesture controlled robot with accelerometer.



Bigdata- Hadoop Workshop



Mind-D-Line 3

The main event kicked off with the Inaugural Function which was graced by Shri Rajiv Mishra, Chairman-cum-Chief Managing Director, Western Coal Fields Ltd, who consented to be the Chief Guest for the occasion. Shri Banwarilal Purohit, Chairman, RCOEM was the President of the function. Shri Govindlal Agrawal, General Secretary, RCOEM, Dr. R. S. Pande, Principal, RCOEM and Mr. M. K. Singh, General Manager, HR, WCL, were also present. The dignitaries unveiled the Technovision 9.0 Souvenir and felicitated the Central Monitoring Committee of IEEE RCOEM Students' Branch. This was followed by a fascinating line-up of events ranging from the scholarly Paper Fest, which provided a platform for budding engineers, researchers and designers to present and discuss innovative ideas to the fun-filled TechQuest where participating teams had to unravel a hidden

treasure with the help of clues encrypted using famous ciphers. For the staunch programmers, Code-O-Mania, a multi-language coding event, proved to be a treat. The techno-savvy had a roll in the quiz competition, TechWiz. The roboticists put their line-follower robots to test in the racing event Mind-D-Line and in the 'best-out-of-waste' experiment, Junkyard Wars, participants faced an on-spot design and fabrication challenge using junk materials. An extremely sensational event, Impulse, required participants to design an RC vehicle with IC engines which could cut across the hurdles and complete the laps while maintaining speed.

The event concluded with the valedictory function and was a great learning experience for all those who were involved.

## PRATISHRUTI 2015 : A CULTURAL FEST

The annual cultural fest of the College - PRAT15HRUTI was inaugurated in the college premises on 12th February 2015 in the esteemed presence of the honourable chief guest Shri Amit Jain, Director, Mahagun, New Delhi. The event was graced by the Chairman- Shri Banwarilal Purohit, Vice-chairman- Shri Chandrakantbhai Thakar, General Secretary- Shri Govindlal Agrawal, Treasurer- Shri Ashok Kumar Pacheriwala, Principal - Dr. R.S.Pande, Dean S.R.C- Dr.(Mrs.) Rashmi Shahu, Prof. in-charge of PRA15HRUTI- Dr. P.R. Gandhi, cultural secretary (SRC) - Mr. Nikhil Setiya and General Secretary (SRC) - Ms. Prachi Kulkarni. Dr. R.S.Pande in his opening remark presented a brief report on the achievements and activities of the academic session 2014-15. In his presidential address, Shri Banwarilal Purohit, inspired the students by stating that today's youth is the future of the society and urged students to always keep higher goals and achieve them with simplicity and character. Nikhil Setiya – Cultural

Secretary SRC presented a brief review of the various events and workshops conducted in PRA15HRUTI. Dr. Rashmi Shahu, Dean SRC proposed the vote of thanks and appreciated the efforts of the entire staff and students. The days that followed witnessed the final rounds of exciting events like Footsteps, Persona, stimulus and quizeus. The fest concluded with a cultural night on 14th February 2015.







## EARTHIAN AWARD 2014 TO REEF-RCOEM TEAM



REEF-RCOEM team receiving the award from Mr. Azim Premji and Mr. Anurag Behar



Earthian Award 2014 winning team of REEF-RCOEM with Shri Govindlal Agarwal, Principal Dr. Rajesh. S. Pande, Dr. V. H. Asudani (HOD, Humanities)

REEF (Ramdeobaba college Engineers for Environment Forum) an environment club of Shri Ramdeobaba College of Engineering and Management (RCOEM) won the prestigious international Earthian competition organized by Wipro. The winning team, representing RCOEM, comprised of Rohan Dekate (Mechanical), Aaditya Somani (Electronics), Vishakha Jaiswal (Electronics), Radhika Kale (Electronics), and Manas Agrawal (Industrial) along with REEF's mentor faculty and team

guide Dr. Deepshikha Mehra from Dept of Humanities. The team did extensive research on tasks given during the competition which involved calculating carbon footprint and innovative product design improvements for a sustainable environment. They were judged by leading environmentalist of India on the basis of which they were declared as winners among 500 competing educational institutions. REEF-RCEOM has emerged as a winner of this international competition along with India's other premier institutions like IISc Bangalore, IIM Indore, NIT Trichy, and XLRI Jamshedpur.

The team along with the Faculty-team guide was invited to Bangalore for the prize distribution ceremony on 7th February 2015 where they were awarded with Rs. 1.5 lakhs along with a trophy. They also took part in CEP (Continuing Engagement Program) interaction on 8th of February 2015 at the Wipro Campus. During their visit the REEF - RCOEM team met and interacted with some of the top minds in the field of sustainability from domains of wildlife conservation, archaeology, science etc. They also got a chance to have a Q&A session with Mr. Azim Premji, founder and Chairman of Wipro and Mr. Anurag Behar, Chief Sustainability Officer at Wipro. REEF students also visited the Wipro facility in Sarjanpur, Bangalore to know more about efforts taken by Wipro in their facilities towards sustainability.

The REEF Earthian winners have been congratulated by Shri Banwarilal Purohit (Chairman), Shri Govindlal Agarwal (General Secretary), Dr. R. S. Pande (Principal), Dr. V. H. Asudani (HOD, Humanities) and faculty members for their outstanding achievement.



RCOEM participated in the intra-university youth festival of Shri Rashtrasant Tukdoji Maharaj Nagpur University, YUVARANG 2014-15 which was held from 9th to 12th March 2015 at Purnachandra Buty Hall, Nagpur. RCOEM scored well in the overall championship points table and bagged the 3rd position. The winners were given trophies and certificates of merit and students who successfully participated were encouraged with certificates of participation. The students who participated in various events are as follows:



Ishan Bhojak (4th Sem, EC), Rohan Dekate (4th Sem, MECH), and Rohit Gangwani (6th Sem, EC) participated in the quiz competition and came First. Ath Tiwari of 4th Sem, MECH won the Elocution and Debate competition. Utkarsh rathi of 4th Sem, IND was part of the winning team of the Debate competition. Ishan Bhojak of 4th Sem, EC stood 3rd in the Poetry competition. Nitish Chandra (6th Sem, MECH), Amod Kulkarni (6th Sem, IND), Neelabh Trivedi (6th Sem, MECH), Anubhav Gupta (4th Sem, MECH), Mansi Nikam (4th Sem, IND), and Rajeshwari Chawhan (4th Sem, IND) stood 2nd in the Skit competition. Nitish Chandra of 6th Sem, MECH

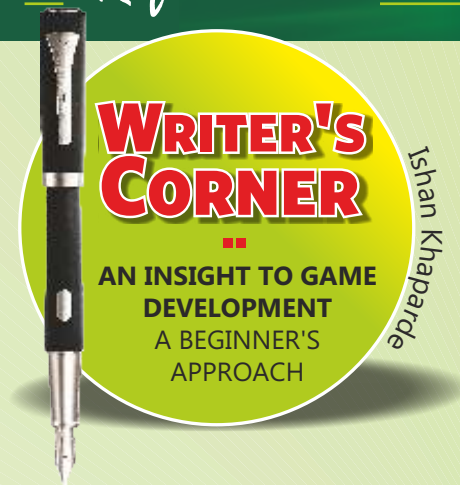
participated in Mimicry and Monoacting competitions. Kshitij Madan of 6th Sem, CSE participated in Mime. Rishikesh Daoo of 8th Sem, IND stood second in the Classical vocal competition along with Shatabdi Roy of 6th Sem, EN. Harshit Purohit and Rupam Banerjee of 6th Sem, EC stood second in the Instrumental Non-Percussion event. Sumant Thakre (8th Sem, CSE), Rishikesh Daoo (8th Sem, IND), Mangesh Deshpande (8th Sem, MECH), Ashwini Mahajan (8th Sem, EC), Priti Patil (8th Sem, EN), and Siddhant Khajanchi (6th Sem, MECH) participated in the Group Singing event. The Faculty Coordinator for these students was Prof. Pratishruti Singh along with Prof. Sangita Deshmukh – Dean – SRC.

## BEST NSS VOLUNTEER AWARD



Nilesh Mishra of RCOEM (now an alumni) won the Best NSS volunteer award from Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur on 31st March 2015. He received award from Padmashree Dr. Vikas Mahatame and acting VC Dr. Vinayak Deshpande. He has to his credit organization of and participation in many social events like blood donation camps, tree plantation, street plays, cleanliness drive, health checkup camps, orator of the year, aids awareness programme, voter's awareness rally, eye checkup and pulse polio programme. Nilesh Mishra was also the NSS Secretary for the 2013-14 batch.





Video games evolved as a means of entertainment in the 1950s. Today, gaming is not just a means of entertainment, but a huge, thriving industry with a revenue of \$21.5 billion, and the figure continues to rise exponentially. That said, every gamer always gives a "wow!" after looking at the graphics and plot of the game. Now there rises an array of questions. Notable ones are:

**"How did they do it?"**

**"How much did they code to build it?"**

Game development is a totally different process than software development. The approach to building a game differs over software in the way that building a game is actually like designing a building. The notion that building a game might involve colossal amount of coding is wrong. There are tools that power the graphics of the game. They essentially help the game developer manipulate everything. Such tools are called as "Game Engines". A game engine is a software that gives full control to the developer. Just like movies, games tend to revolve around certain characters. In context of game development, these characters are referred to as actors. The term actor and character can be used interchangeably in this article.

Graphics are the very soul of computer games. Every game developer must have strong knowledge of what is called as "Graphics Pipeline". The Fig. 1 will illustrate. The general flow shown is the same. However, the implementation varies with the API used for graphics, depending on the platform of use.

In order to show something on the screen, we need to

have our graphics hardware to draw it. Fig 1 shows us the procedure of drawing something on the screen. The process begins with data. To draw something, we need raw data. This data is then fed to vertex and geometry before it can be rasterized. Shaders are basically programs that communicate with the hardware. The vertex shader does a 1:1 mapping (from input to output) of vertices to be plotted on screen. Geometry shader defines the shape to be generated, and it is here that the actual picture gets ready to take shape on screen. This is then drawn (rasterized) on screen. Finally the fragment shader fills in the wonderful effects we see on screen. These shaders are usually written in GL Shading Language (abbreviated as GLSL). And involve low level code, and have supporting APIs like OpenGL, DirectX, Metal etc. Game engines have in built shaders, and today we have engines that are good enough for creating breath-taking scenes in a short span of time. Let us consider the Unreal Engine 4. This tool is one of the most advanced game engines in the world, and powers today's most popular and next gen games. There is innovation in every single component of the unreal engine. The unreal engine allows the developer to bypass programming completely, using visual scripting. This visual scripting is referred to as "Blueprints". The only program the developer must write is to have their actors interact, communicate and trigger events in the world. So to handle such events, we have blueprints. For instance, let us look at a blueprint to construct a chess board. The blueprint is basically a graph, there are nodes connected to each other and the control flows through them just like electricity flows through wires. While the nodes are just like routines in a typical C/C++ code, they can be used to declare variables.

We observe a typical syntax of the blueprint nodes, such as the for loop node, nodes for arithmetic and logical operations etc. The logic for the blueprint goes as same as a C/C++ program, the visual scripting approach makes it way too simple to understand, develop and debug. The blueprint editor in the unreal engine also features a rich set of debugging tools,

such as breakpoints and edit-time warnings. The blueprint draws a chess board as shown:

Similarly, we can draw the chess pieces using blueprints. But as the shape of the object gets irregular, the blueprints tend to get more and more complex and large. So, an alternative is to draw the complex actors in other tools such as Maya or Auto 3DS Max, and import them as an asset into the game engine. Assets in a game engine can be anything ranging from ordinary images to complex textures or complete shapes and actors.

Apart from the visuals of a game, animations add to the fidelity of any game. In unreal engine, we define animations of an actor using a state machine. A state machine, i.e. an automaton can be designed to define how the state of the character will be in response to events such as player input. Automata, usually seen in language or pattern recognition, find a good application here, and are integral to the fidelity of the game. The figure below shows a part of an animation

state machine.

Unreal engine 4 also allows more powerful, yet subtle changes by allowing the developer to modify the existing shaders or writing his/her own ones. The ability to modify shaders allows us to manipulate the very process of display, and allow the developer to take full advantage of the hardware available. For instance, we might want to make the shader a bit less harsh on the hardware if the game is being built for mobile devices like tablets.

Thus we see that with such tools available, even beginners and the most naïve students can build games easily, and deploy them on the platform of their choice. Because innovation cannot be taught, it comes from within, and that is all needed to build a game.

(The author is a 6th Semester student of CSE Dept. For any aspects related to the article he can be contacted on [ishankhaparde@gmail.com](mailto:ishankhaparde@gmail.com))

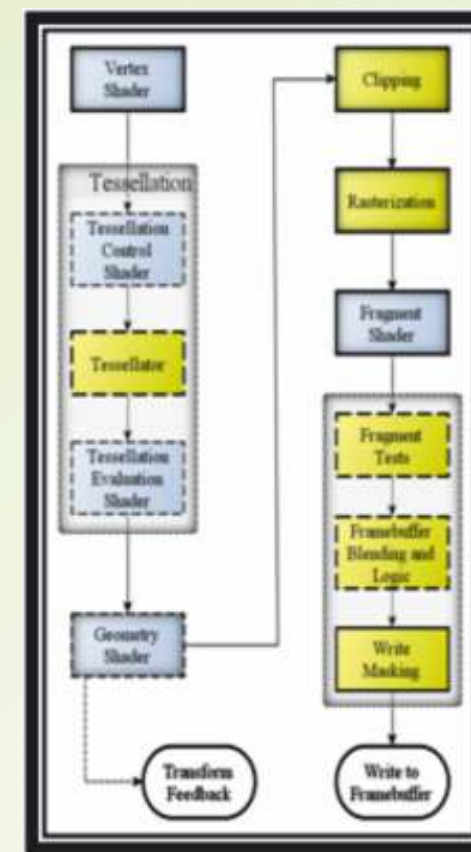


Fig. 1: The Graphics Rendering Pipeline



Fig. 2: A sample blueprint to draw a chess board



Fig. 3: The chess board drawn by blueprint shown in Fig 2

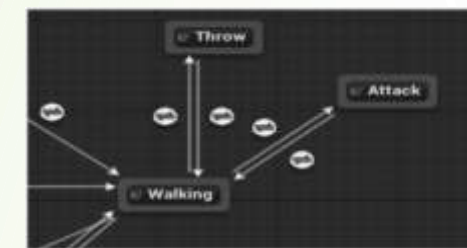


Fig 3: A portion of an animation state machine



## DEPARTMENT OF CIVIL ENGINEERING



### FACULTY CORNER

The following faculty members of the Department were awarded Ph.D. by Rashtrasant Tukadoji Maharaj Nagpur University:

o Prof. Subhash Vallabhdas Joshi got Ph.D. on his research "Diagnostic Study of Compressive Strength of Heat Cured and Ambient Cured Low Calcium Flyash based Geopolymer concrete". He carried out the research under the guidance of Dr. M. S. Kadu, Professor and Head of the Department of Civil, RCOEM.

o Prof. Anuj Kumar Sharma was awarded Ph.D. on "Effect of Road Geometry and Traffic Characteristics on Crash Rate for Multilane Highways with Heterogeneous Traffic". He carried out the research under the guidance of Dr. Vishrut Landge, VNIT, Nagpur and Co-Guide Dr. N.V. Deshpande.

The following faculty members delivered a lecture in a one-week training program on "Civil Work Procedure" organized for Ordnance factory employees by Ordnance Factory Institute of Learning, Ambajhari, Nagpur on 1st January 2015:

o Prof P P Dahale spoke on "Maintenance and Rehabilitation of Structures".

o Prof H.P. Khungar spoke on "Earthquake resistance structures"

Prof. M S Tiwari delivered an expert lecture on "Prospects of Mineral Based Industries in Vidarbha" in the Youth Empowerment Summit organized in Nagpur on 1st February 2015. His session was chaired by Union Minister Shri Hansraj Ahir.

Dr. R. N. Khapre, Ms. J. B. Chouhan and Mr. Gaurav Gulhane (M.Tech student) presented a paper entitled "A Comparative Study on Finite Element Models of

Hero, ProTaper, Mtwo and Quantec Endodontic File Segments", at International Conference On Engineering and Physical Sciences – 2015 (ICEPS-2015) organized by IMRF, promoted by Ratna Prasad Multidisciplinary Research and Educational Society at Pondicherry, India, on 13 and 14 February 2015. ISBN No 978-93-84124-29-8.

Ms. Snehal Abhyankar attended a one week short term training program on 'Finite element Modeling, simulation and Analysis (FEMSA-15)' approved by ISTE and in association with Bio-Medical Engineering Forum, VNIT, Nagpur held at Dept. of Mechanical Eng. RCOEM from 6th to 10th April 2015.

Dr. R. N. Khapre, Ms. J. B. Chouhan, and Mr. Gaurav Gulhane's paper entitled, "A Comparative Study on Finite Element Models of Hero, ProTaper, Mtwo & Quantec Endodontic File Segments", was published in ENGINEERING SCIENCE - International Research Journal, 3/1, February 2015, ISSN 2320-4338, Pp. 110-116. Dr. Rajendra N. Khapre also chaired one technical session in the conference.

### STUDENTS' ACCOMPLISHMENTS

Ms. Tejal Chandak, Ms. Divya Khandelwal, Mr. Aman Dhundele, Mr. Kunal Choudhary, Mr. KAmesh Gonnade, Mr. Yashpreet Singh, Mr. Akshay Tejankar, Mr. Shubham Shivhare, Mr. Akshay Kumbhare, Mr. Vinay Popli, Mr. Aditya Lakhe and Mr. Ashish Kale attended AMCON, a national seminar organized by ICI Nagpur center on 13th and 14th March 2015.

### CAPACITY BUILDING ACTIVITIES

A one day workshop on "Blasting methods for construction and demolition" was organized by the Department. The workshop was attended by delegates from PWD, CPWD, Railways, Irrigation, MJP,



WCL, MOIL, NIT, NMC, RYTES, NHAI, academic institutions and other related organizations. Mr Narendra Kumar, Chief Engineer of CPWD was the Chief Guest. He stressed that there is apprehension amongst the civil engineering community in using this technology and asked the participating civil engineers to use it as it is more cost and time affective. Case studies on deepening of nallas, under water blasting, tunneling, metros, lake tapping, demolition of bridges, water tanks, multi storied buildings and structures affected by earthquakes were presented by experts - Mr S B Sarwate, Mr Manoj Raut and Dr Ramulu More. Dr A K Raina and Dr N R Thote chaired the open session. Mr Devendra Halmare explained various types of explosives and accessories required for conducting such blasts. Dr R S Pande, Principal of the institution welcomed the participants and the expert speakers. Dr M S Kadu introduced the theme. The workshop was convened by Prof M S Tiwari, Prof P B Kulkarni, Prof E M Gonnade, and Prof S V Joshi.

Institution of Engineers (India) students' chapter in collaboration with Indian concrete Institute organized technical series in Civil Engineering Department. The program was coordinated by Prof. Snehal Abhyankar.



o Dr. Rahul Ralegaonkar, VNIT, delivered expert lecture on "Sustainable Concrete" on 20th February 2015. Around 100 students third and final year B.E. Civil Engineering attended the lecture.

Mr. Vijay Ranjan, designated Area Sales Manager of BASF Construction Chemicals (India) Pvt Ltd delivered an expert lecture on 23rd February 2015 on "Role of admixtures in advanced concrete".

Dr. S. A. Salpekar, Ex-professor, Civil Engg. Dept., RCOEM delivered lecture on "Wireless Sensor Network" on 25th March 2015 for M.Tech. (Geotech. Engg.).

Dr. Sudarshan T. Kurwadkar Assistant Professor, Department of Civil and Environmental Engineering, State College Blvd, California State University, Fullerton, CA, USA delivered a lecture on "Application of Environmental Chemistry in Drinking Water Treatment Processes: Mitigation of Fluoride and Arsenic Problem Vidarbha Region" on 7th January 2015. Students of second, third and final year B.E. Civil Engineering attended the lecture. The program was coordinated by Dr. M. S. Kadu and Prof. E. M. Gonnade.

Dr. A. G. Bhole delivered lecture on "Characteristics of water and water treatment" on 10th February 2015. Prof. T. B. Gupta coordinated the program.

Mr. Manmath Deshpande delivered a lecture on Vedic Mathematics on 3rd February 2015. Prof. V. J. Rajurkar coordinated the program.

### BEYOND ACADEMICS

Formal installation of Civil Engineering Students Association (CESA) body took place on 10th February 2015 in the Department. Dr. Pawan Kumar Labhsetwar, Scientist and Head, Water Technology Division NEERI, Nagpur was the chief guest of the installation function. Dr. A. G. Bhole, Professor (Retd.), VNIT, Nagpur was the guest of honor. Dr. Pawan Kumar Labhsetwar presented badges to the post holder of CESA body. Certificate of appreciation was distributed by Chief Guest and Guest of Honor to academic achievers and sports achievers.



## DEPARTMENT OF COMPUTER SCIENCE ENGINEERING



### FACULTY CORNER

1. Dr. M.B. Chandak and Dr. Avinash Agrawal participated as a member of advisory board for the Short Term Training Program on "Design Patterns" from 29th December 2014 to 2nd January 2015 organised by CSE Dept., JIT, Nagpur.

2. Dr. M.B. Chandak's paper entitled "A survey of various strategies for classification and novel class detection in data streams" was published in International Journal of Computer Science and Applications (IJCSA), 8/1, ISSN: 0974 1011, Jan Mar 2015.

3. Dr. A.J. Agrawal published four papers entitled:

- "Hybrid Approach to Pronominal Anaphora Resolution in English Newspaper Text". IJISA ISSN. No. 2074-904X (Print), ISSN: 2074-9058 (Online), PP.56-64. (Free). Jan-15.

- "Domain Specific Question Answering System" (IJEECS), 3/2, Jan-15 With impact factor of 1.75

- "Information Retrieval Using Mobile Agent in Distributed Environment" (IJEECS) Feb-15, 3/2.

- "A Novel approach to personalize the web search" International Journal of Electrical, Electronics and Computer Systems (IJEECS), 3/2 Feb-15, 1.75 Impact Factor.

4. Prof. P.R.Pardhi's paper entitled "Routing Protocols for WSN (General Self Organized Tree Based Routing Protocols)" was published in the Proceedings of National Conference on Recent Trends in Mobile and Cloud Computing (NCRMC-2014), IJCSA ISSN: 0974-1011 (Online) Jan Mar 2015.

5. Prof. R. R. Welekar's paper entitled "Secure

Authentication Using Visual Cryptography" was published in International Journal of Computer Science and Applications (IJCSA), 8/1, Jan Mar 2015, ISSN:0974 1011.

6. Prof. D.Naidu's paper entitled "Self Destruction system for protecting data privacy in cloud storage" was published in International Journal of Electrical, Electronics and computer system (IJEECS), 3/2, March 2015.

7. Prof. D. A. Borikar's paper entitled "An Approach to Semi-Supervised Co-Clustering with Side Information in Text Mining" was published in International Journal of Engineering Trends and Technology (IJETT), 19/6, ISSN: 2231-5381. (www.ijettjournal.org. published by seventh sense research group).

8. Prof. Rina Damdoo's paper entitled "Enhancing Three Tier Security Scheme Using Fourteen Square Algorithm in Wireless Sensor Network" in International Journal of Engineering Trends And Technology (IJETT), 19/ 5, ISSN: 2231-5381 Jan-15.

9. Prof Pravin Sonsare's paper entitled "Data Self-Destructing System Online" was published in International Journal of Innovative Research & Development, 4/2, ISSN 2278-0211 (Online) Feb-15.

10. Prof Pravin Sonsare's paper entitled "Application of Anti-Counterfeiting for Airline Ticket Booking" at Journal of Environmental Science, Computer Science and Engg., 4/2, Pg.113-118, ISSN: 2278-179X, Mar-15.

### STUDENTS' ACCOMPLISHMENTS

- The following students of Final Year cleared GATE 2015 Exam:

- o Mr. Akshay Patil with All India Rank of 414.

- o Ms. Pooja Palod with All India Rank of 852.

- o Ms.Nupoor Ballal with All India Rank of 1523.

- Mr.Aditya Kranthi of Final Year cleared CAT (94.97 percentile), XAT (88.33 percentile), CMAT (99.92%) conducted by Symbiosis International University, SNAP (96.87%), NMAT (92.19%) conducted by NMIMS Schools of Business Management. He has also been shortlisted for the interview at IIT Kanpur and IIM Kozhikode.

- Mr. Rohit Nagbhidar and Sarthak Shrivastava of third year CSE Won the Runner up Trophy at State level for the "Infosys programming Contest at Aspiration 2020" and they were winners at the college level.

- Sarthak Shrivastav and Kartik Saboo got first Prize in Code Relay Event at Polaris 2015 on 30th January 2015.

- Kartik saboo and Nazib Sorathiya got 1st prize in Negocio Event at Polaris 2015 on 31st January 2015

- The students of the Department - Sumant Thakre - Final Year, Nikhil Barapatre, and Amit Sharma from Second year won prize in Music Competition. Kshitij Madan of Third Year got 1st prize in Drama Competition held in 'YUVARANG 2015' Youth Festival organized by RTMNU, Nagpur University.

- Recently, Persistent Systems Pvt. Ltd., an IT giant of Nagpur, organized a region wide project competition. Two teams from Department of Computer Science and Engineering, won the first prizes in the Best Domain and the Best Innovation categories respectively. Dr. Rajesh Pande, Principal, RCOEM and Dr. M. B. Chandak, Head of the Department, congratulated the students on their success and also extended any help required to launch the projects commercially. The projects started in July 2014, when the company visited various colleges across the region to select students for the project. Around 500 students participated from the Nagpur division. The final exhibition cum competition was held at Persistent Systems on 24th March 2015. The team

members for the Best Domain Project (Title: Easy-Go-Follower) were Apoorv Kshirsagar, Roshni Tiwari, Snehal Gupta, Daniya Rehman, Vedant Page, Akshay Jaiswal, and Abhay Pratap Singh. The team members for Best Innovation Project (Title: Interaction with Computers using Skeletal Tracking) were Divya Gupta, Shivam Rai, Pooja Pallod, Komal Saraf, Vaibhavi Awghate, Namita Nisal and Abhishek Parmar.



### CAPACITY BUILDING ACTIVITIES

- "One Day National conference on Research in Cloud and Cyber Security" Organized In association with CSI under Region VI CSI Student Branch Nagpur Chapter

The Department in association with Computer Society of India (CSI), organized a one day National conference on Research in Cloud and Cyber Security on 21st February 2015. Advocate Mahendra Limaye, a Techno-Legal expert in Cyber Security and Cyber Legal Education, graced the Inaugural Function of the Conference as the Chief Guest. The highlights of the conference were:

- Keynote Address on "Cyber Crimes and Cyber Law" by Chief Guest Advocate Mahendra Limaye.

- Full day Workshop on "Cyber Security and Digital Forensics" conducted by Mr. Tanmay Dikshit and Mr. Paresh Chitnis (CPAG) Nashik.

- Paper Presentation in Two Tracks.

A Speech of Dr. M.B. Chandak, HOD, CSE and Convener Dr. Avinash Agrawal was delivered to brief





Dr. Avinash Agrawal, Convener. Dr. S. D. Mohgaonkar, Officiating Principal, RCOEM, Chief Guest Advocate Mahendra Limaye and Dr.M.B.Chandak, HOD, CSE unveiling the proceedings of the Conference NCRCCS 21st Feb 2015

the conference. Dr. S. D. Mohgaonkar, Officiating Principal, RCOEM, delivered the presidential address. The Inaugural ceremony was followed by a workshop, which covered topics like Forensics- including Live Mobile Forensics and Live RAM Clone, Investigation and Security- including IP Tracking Methods and Pure hands-on Training in Ethical Hacking. Expert demonstrated how calls can be spoofed and the ways to bypass authentication in operating systems. The Conference also included a paper presentation competition which witnessed around 20 interesting papers on Research in Cloud and Cyber Security. Mrs. Pallavi Chaudhary, HOD, IT Department, PIET, Nagpur and Dr. Shital Raut, Assistant Professor, VNIT, Nagpur gladly consented to judge the paper presentation. All in all, the conference proved to be a highly knowledgeable experience for all the participants. The



Convener, Industry Experts- Mr.Tanmay Dixit and Mr.Paresh Chitnis, Faculty members Rcoem, CSI Members and Workshop participants of NCRCCS 21st Feb 2015

conference concluded with a vote of thanks by Prof. Devishree Naidu, Student Branch Coordinator, CSI-RCOEM student Branch.

### Parent-Teacher Meet

The Department organized a Parent-Teacher Meet on 14th March 2015. The Meet began at 10.00 AM. Parents were given booklet highlighting the achievements of the students and the activities organized by the department. The response to the Parent-Teacher Meet was very good. Parents of 77 students attended the meet.

### BEYOND ACDEMICS



'CASOPES' CSE Magazine Release at POLARIS'15 Inaugural Function 30th Jan 2015

· POLARIS '15 Two days National Level Technical Symposium

A two-day National Level Technical Symposium and cultural fest – POLARIS'15 30th-31st January 2015 was organized by CSE Dept. The event aimed to encourage the students towards co-curricular activities and provide a platform to showcase their talent. The event was inaugurated on 30th January 2015. Dr. Subrata Das, Director, Maharashtra Remote Sensing Application Centre, Nagpur was the chief guest for the occasion. Dr. R.S. Pande, Principal, delivered the presidential address. He motivated the students to actively participate in the upcoming events. Dr. M. B. Chandak, Head, CSE Department, congratulated the organizing team for designing innovative events for POLARIS. Professor in-charge of POLARIS, Prof. D. Naidu briefed the gathering about the competitions. CASOPES, the departmental magazine was unveiled by the dignitaries. Final year student, Mr. Vicky Thakur, President, Compusys, gave details about Compusys



Key Note Address by chief Guest Dr.Subrata Das on "Emerging Research in GIS Domain"



Workshop on Android at POLARIS'15

society and Ms. Simran Jain, Secretary, CSI gave the vote of thanks.

Inaugural was followed by Dr. Subrata Das, technical key note address on "Emerging Research in GIS Domain". He introduced 'Bhuvan- Gateway to Spatial World' a project by Govt. of Maharashtra and



Workshop on Android at POLARIS'15



Workshop on "RASPBERRY PI" at POLARIS'15

enlightened the gathering about the latest trends in GIS (Geographical Information system), Photogrammetry, LIDAR technology, SAMMS mobile technology and various applications of Remote Sensing. The research areas to which students can contribute were also discussed.

## EE DEPARTMENT OF ELECTRICAL ENGINEERING



### FACULTY CORNER

- Prof. V. T. Barhate visited Priyadarshini College of Engineering and Technology, Nagpur along with other expert members deputed by R. T. M. Nagpur University on 4th February 2015 under LEC for verification of Infrastructure and facilities.
- Dr. Sanjay Bodkhe was appointed on the committee constituted by R. T. M. Nagpur University for granting

renewal for recognition as Place for Higher Learning & Research for PhD. He visited G. H. Raison College of Engineering in March 2015 for the same.

· Dr. Sanjay Bodkhe delivered a guest lecture on "Methods and Skills for Effective Teaching Learning Process" at Nagarjuna Institute of Engineering, Technology and Management, Amravati Road, Nagpur. He was invited to do so during the Faculty



Development Programme organized by this institute on 20th February 2015

- Dr. Sanjay Bodkhe delivered a guest lecture on "Outcome Based Education and Accreditation" at Anjuman College of Engineering and Technology, Sadar, Nagpur. He was invited to do so during the Faculty Development Programme organized by this institute.

- Dr. D.R.Tutakne delivered a expert guest lecture highlighting aspects of Variable Frequency Drives to the Trainee Engineers of MAHAGENCO at Koradi Thermal Power Station on 28th March 2015.

- Dr. D.R.Tutakne was designated as the one of the Judges on the expert panel during National Level Project Competition "ENNOVATE" organized by Dept of Electronic Engineering RCOEM Nagpur on 28th February 2015.

- Prof. S. D. Naik received the best paper award on a research paper titled "Voltage Stability of Multibus Power System: Analysis and Improvement with Line Outage" at 3rd Hong Kong International Conference on Engineering and Applied Science, Hong Cong.

- Prof. S. D. Naik has presented and published a research paper titled "A Novel Approach for Reducing Proximity to Voltage Instability of Multibus Power System with Line Outage Using Shunt Compensation and Modal Analysis" on 2nd International Conference on Advances in Engineering and Technology-2015 (ICAET-2015)" organised by Anjuman College of Engineering and Technology, Nagpur from 25 to 26 February 2015. This paper was also published in International Journal on Recent and Innovation Trends in Computing and Communication, ISSN: 2321-8169, 3/2, pp. 52-56.

- Dr. D. R. Tutkane and Prof. G. N. Goyal, both attended one day workshop on "Energy Efficient Technologies" organized by Ministry Of Micro, Small and Medium Enterprises (MSME), Nagpur on 3rd

March 2015.

### STUDENTS' ACCOMPLISHMENTS

- Total placement of the department reached sixty eight till March 2015. The effective students placed count has reached 55. The students were placed in core and IT Company including international company named Hasan Juma baker, Oman.

- Ms. Komal Ambhorkar and Ashwani Kumar Rana, students of 4th semester M.Tech. PEPS have secured 1st position in inter-college project competition "ILEKTRIKO'S-15" organized by Department of Electrical Engineering of Rajiv Gandhi college of Engineering, Nagpur held on 26th and 27th Feb 2015. The Project was guided by Dr. D. R. Tutakne.

- The following papers were presented in 2nd International Conference on Advances in Engineering and Technology-2015 organised by Anjuman College of Engineering and Technology, Nagpur, held on 25 and 26th February 15. They were also published in International Journal on Recent and Innovation Trends in Computing and Communication, ISSN: 2321-8169, 3/2:

- o Group Captain Sai Krisnan, IV semester M. Tech. PEPS along with co-author, Prof. S. V. Umredkar, presented "Aircraft Power System: Peculiarities and Simulation", it received the best paper award of Rs. 5,000 along with a merit certificate and souvenir.

- o Mr. Ashwani Kumar Rana, IV semester M. Tech. PEPS student along with co-author, Dr. S. B. Bodkhe, presented "Simulation for Axial flux Permanent Magnent Motor Drive",

- o Miss Sneha Nandankar, IV semester M. Tech. PEPS student along with co-author, Prof. G. N. Goyal, presented "Simulation Analysis of Nine Switch Inverter for Induction Motor Drive".

- o Miss Runzun Saxena, IV semester M. Tech. PEPS

- student along with co-author, Prof. S. C. Rangari presented "Comparison of Three Phase Two-Level Inverter Operation with SPWM and SVPWM".

- o Miss Reema Agrawal, IV semester M. Tech. PEPS student along with co-author, Prof. P. A. Salodkar presented "Design and Simulation of Five-Level Inverter: Simulation Study of Five-Level Inverter".

- o Mr. Rahul G. Tapre, IV semester M. Tech. PEPS student along with co-author, Prof. R. G. Deshbhratar presented "Comparative Study and Simulation of Different Maximum Power Point Tracking (MPPT) Techniques in a Solar Power Generation"

- o Miss. Rajshri Tiwari, IV semester M. Tech. PEPS student along with co-author, Prof. S. H. Deshmukh presented "Development of Soft Switch Low Voltage High Current Resonant DC-DC Converter"

- o Mr. Manish Trivedi, IV semester M. Tech. PEPS student along with co-author, Prof. U. B. Mujumdar presented "Study and Simulation of Parks Transform PLL for Robust Single Phase Grid Connected System".

- o Miss. Komal Ambhorkar, IV semester M. Tech. PEPS student along with co-author, Dr. D. R. Tutakne presented "Soft Start High Frequency Switched Variable Voltage Controlled Induction Motor Drive"

- o Miss. Kapila Saxena, IV semester M. Tech. PEPS student along with co-author, Prof. V. T. Barhate presented "Biased Differential Protection Schemes for Transformer Protection through Microcontroller Based Relay"

- o Mr. Chinmay Harkare, IV semester M. Tech. PEPS student along with co-author, Prof. P. V. Kapoor presented "Study and Simulation of Current Controlled PWM Inverters and their Applications".

### CAPACITY BUILDING ACTIVITIES

#### · Industry Visit to Khaperkheda Thermal Power Station

Sixty seven students of 6th Sem B.E. (Electrical Engineering) visited the KHPARKHEDA THERMAL POWER STATION on 3rd February 2015 along with visit coordinator Prof. R. G. Deshbhratar. Three staff members Prof. M. M. Renge, Prof. Mrs. M. B. Gaikwad and Prof. Mrs. M. V. Palandurkar also accompanied the students. Students visited the complicated and robust Coal Handling Plant, Boiler Furnaces and Accessories of 210 MW plants. They were also benefited with detailed knowledge of Automation and SCADA in Boiler and Generator house control room of all 210 MW x 4 plants along with sub-station system bus and station transformers.



- Three day workshop on "Aptitude Development" was arranged for third year students on 16th to 18th March 2015. The workshop was conducted by Mr. Asish Diwam, Alumini of 2009 Batch.

- One day workshop on "AUTOCAD Electrical" was conducted for third year students on 22nd and 23rd March 2015 in two batches. The workshop was conducted by Astral Informatics Pvt. Ltd. This workshop was conducted with the aim of introducing the students with the new technologies in the field of electrical.





## DEPARTMENT OF ELECTRONICS ENGINEERING

### FACULTY CORNER

· Guest Lectures/Workshops/Industrial Visit/conference/Journal

1. Dr. J.P. Kalambe's paper entitled "Design, Fabrication, and Characterization of Electrostatically Actuated Microcantilever Sensor for Temperature Detection" was published in IEEE Journal of Sensors, 15/3.DOI:10.1109/JSEN.2014.2365107 pp 1595-1601.

2. Dr. (Mrs) A.A.Khurshid, presented a paper entitled "ASIC Implementation for Improved Character Recognition and Classification Using SNN Model" at 2015 International Conference on Soft Computing and Software Engg. (SCSE'15) University of California, Berkeley, Sutardja Dai Hall, Berkeley, California, USA, March 5-6, 2015.

3. Dr. J.P. Kalambe presented a paper entitled "Design and Analysis of Micro-Cantilever Sensor for Diseases Detection" & "Low G Acceleration Measurement Along with non Linearity Analysis of MEMS Accelerometer" at 2nd International Symposium on Physics and Technology of Sensors organize by Center for Materials for Electronics Technology (C-MET), Pune, 8-10 March 2015.

4. Prof. S.S. Balpande presented a paper entitled "Exploring Next Generation Energy Harvesters with PPE and IDE Electrodes: A Review" at International Conference on Energy Systems and Development (ICESD-2015) organized by Trinity College of Engineering and Research, Pune, Feb. 11-13, 2015

5. Prof. S.S. Balpande presented a paper entitled "MEMS based EM Energy Harvester for low Frequency Vibrations" at 2nd International Symposium on Physics and Technology of Sensors organize by Center for Materials for Electronics Technology (C-

MET), Pune, 8-10 March 2015.

6. Prof. S.S. Balpande, presented paper titled "Design and Simulation of MEMS Cantilever Based Energy Harvester-Power Source for Piping Health Monitoring System" at National Conference on Recent Advances in Electronics & Computer Engg. ( RAECE-2015) IIT Roorkee, Feb 13-15, 2015.

7. Prof. S.S. Balpande and Prof. D.J.Dahigaonkar presented a paper entitled "Design of On-chip Energy Scavenger for Low Energy Electronics" in National Conference on Recent Advances in Electronics & Computer Engg. ( RAECE-2015) IIT Roorkee Feb 13-15, 2015.

8. Mrs. Gouri Morankar and Ms. Smita Daware attended a two-week ISTE STTP On "Pedagogy for effective use of ICT in engineering education" conducted by IIT Bombay under the National Mission on education "through ICT (MHRD,Govt.Of India), 5th -7th and 19th -21st January 2015.

9. Mrs. R. R. Khandelwal participated in the Regional Brain Storming Session (BSS) on 36th International Geological Congress on March 12th-13th, 2015 at GSI, CR, Nagpur, wherein she presented a paper entitled "Wavelet Based Image Coding with Lattice Structure" as poster presentation.

10. Prof. S.V Admane attended Professor Summit and STTP on " Embedded System Design using AVR & ARM based MCUs" Jointly organized by Atmel India University Program and MIT Pune, held from 30th March - 3 April 2015.

11. Prof. B.M. Hardas became member of The Society of Digital Information and Wireless Communications (SDIWC).

12. Prof. B.M. Hardas has been recognized as

Supervisor for M.E. (By research) for electronics engineering in Faculty of Engineering and Technology at Rashtrasant Tukadoji Maharaj Nagpur University.



Electronics Engineering students and faculty with Branch Cup and trophies

### STUDENTS' ACCOMPLISHMENTS

· Mr. Preveen Rahangdale, IV Semester M.Tech.(VLSI Design) got "Best Paper Award" for paper titled "A Highly Linear CMOS Low Noise Amplifier Employing Post Linearization Technique" in IEEE international conference on Engineering and Technology, Rahinam Technical Campus, Coimbatore, Tamilnadu on 20th March 2015. He was guided by Prof. P.A Dwaramwar and Prof M Thacker.

· The Department bagged the Best Branch cup (Nityananda Trophy) for the year 2014-15 during Pratishruti 2015. Department also retained Girls sports cup. Dr. (Mrs.) A.A.Khurshid, Head of the department congratulated Electrolitz student society for their dedicated efforts for this achievement.

· Electronics engineering students participated in Nagpur science and engineering FAIR-2015 organized by Raman science centre and planetarium, Nagpur from 19th to 21st February 2015. Optimal Model for Railway Track Utilization by Ms.Pranjal Dixit and Mr. Sumeet Gupta bagged second prize in project category while Wireless Sensor Network for Track Health Monitoring in Indian Railways by Mr.Manish Thete bagged second prize in poster category. Mr. Rishabh Kaushik and Mr. Omkar Kekre also participated in project 'Novel approach of Energy Harvesting'. Ms. Moitry Samanta participated in poster 'Regeneration of Solid Waste for Sustainable

living'. Prof. Nikhil Damle, Prof. Bhalchandra Hardas and Prof. Gouri Morankar were the mentor faculty.

· Following Final year UG projects participated in Savishkar, an innovative and Futuristic Approaches in Science and Technology-iFAST 2015 National Exhibition and Symposium organized at Maulana Azad National Institute of Technology (MANIT), Bhopal from 26th to 28th February 2015:

o Abhishek Gupta, Parul Gupta, Nupur Shahu, and Sayali Jain worked on the project "Farm Monitoring System", guided by Prof.S.S.Balpande and Payal Nimkar, Disha Wani, Monika Dhoble, Sonal Gurve worked on "Automation for Bottle Filling Plant" guided by Prof. B.M. Hardas

### · Youth Week celebration

National Service Scheme, Swami Vivekananda Youth Initiative and Electrolitz Student society jointly organized YOUTH WEEK in association with students' council RTMNU from 12th to 16th January 2015 at RCOEM. The event marked the 152nd birth anniversary of Swami Vivekananda. The Youth Week was inaugurated at the hands of Dr. Leena Gahane, noted Student Counselor and Dr. R.S Pande, Principal RCOEM. Shikhar Sharma (NSS Joint Secretary), Prachi Kulkarni (University representative RTMNU), Dhananjay Harkare (Youth Week Co-Coordinator) shared the dais with the delegates. The programme commemorated with the lamp lighting and Pratima Puja as a tribute to Swami Vivekananda on his birthday. Ms. Prachi Kulkarni in her introductory remarks highlighted the various events that were to be conducted in the Youth Week. A Powerpoint presentation was given by Dr. Leena Gahane which emphasized on the lifesketch of Swami Vivekananda. She inspired all the students to actively participate in the Youth Week. Dr. R.S. Pande shared his motivational ideas and reiterated RCOEM's vision of promoting professional and ethical values. The programme was attended by large number of students and faculty members. Ms. Deepali compared the programme and Mitesh Agrawal proposed the vote of thanks. Programme concluded





Youth Week Inauguration



Cleanliness Drive



Dr. R.S. Pande planting a sapling



Traffic awareness drive

with the recitation of National Anthem. During the youth week cleanliness drive, tree plantation, awareness about drug addiction and traffic rules among youth through poster presentations and stationery distribution drive were conducted. Dr. Dogra , NSS Program officer; Dr. Amit Anuarag , Physical Education department, Prof. B.M. Hardas , Electrolitz student society in-charge and Prof. Nikhil Damle, Coordinator, Vivekananda Youth initiative worked hard for the success of the youth week.

### Glimpses of YOUTH WEEK

#### CAPACITY BUILDING ACTIVITIES

· 20 students of VIII semester of Electronics engineering visited Khaperkheda Thermal Power Station on 7th February 2015. Students learned the overall process of Electric generation and distribution. Prof. Pankaj Joshi arranged the visit and Prof.Smita Daware and Prof. Rushikesh Deshmukh accompanied the students.

· 38 students of VI semester of Electronics engineering visited PIX Transmissions Limited, Hingna Road, Nagpur on 27th January 2015. Students observed state-of-the-art Belt manufacturing units as well as a completely automated Rubber Mixing facility. Prof.Poorvi Joshi and Prof R Khobragade accompanied the students.

· 25 students of VI semester of Electronics engineering visited ADROIT Industries, Nagpur on 22nd January 2015. Prof.Pankaj Joshi, Prof G. Morankar, Prof D. Bankar, and Prof N Bhogle accompanied the students. Students learnt various PCB manufacturing process in industry.

· Prof Manish Damle delivered a lecture on RFID-AN OVERVIEW on 14th March 2015 at IETE Nagpur center.

· Mr. Madhur Naredi, CAD Engineer, Silicon Labs, USA, delivered a guest lecture on "Standard Cell Characterization Methodology" for M.Tech. (VLSI Design) students on 7th February 2015.

· Electrolitz Student Society, organised a guest

lecture on "Career in Management education" by Mr. Mehul Zunzunwala, Director, TIME on 21st February 2015.

· Electrolitz Student Society, organised guest lecture on "GATE Preparation" by Prof. Reddy , ICE GATE Academy on 21st February 2015.

· Dr. Nitin Kale, Chief Technology Officer, Nano-sniff Technologies, IIT Powai delivered guest lecture on "MEMS based Sensor for chemical and Bio-chemical Applications" for M.Tech. (VLSI Design) students on 27th February 2015.

· Mr. Sandeep Sonaskar, T&P Head, V.S Informatics Pvt. Ltd., Nagpur delivered a guest lecture on "Telnet, IP telephony and VoIP" on 20th March 2015 for VIII semester students. Prof. N Damle and Prof. R Deshmukh arranged the lecture.

· ISF-IETE of RCOEM organised a guest lecture on 'Communication Skills' on 3rd February 2015. The lecture was delivered by Dr. Prantik Banerjee, Associate Professor of English, Hislop College, Nagpur. The importance of communication and significance of language skills in corporate sector were discussed. The students were also enlightened about the various practices they could inculcate to improvise their skill quotient. The programme was organized by Prof. B. M. Hardas, Prof. V.R. Rathee and Prof. M. B. Damle, ISF-IETE Coordinator.

#### BEYOND ACADEMICS

##### · ENNOVATE -2015 Marks National Science day

Electrolitz Students' Society of Electronics Engineering department organized national level project competition ENNOVATE 2015 on February 28, 2015 on the eve of National Science day. ENNOVATE-2015 was inaugurated by Mr. P.M. Parlewar, Director, MSME-Development Institute, Nagpur, Ministry of Micro Small and Medium Enterprise (MSME), Government of India. Shri Govindlal Agarwal, General Secretary, RCOEM presided over the function. Dr. R.S.Pande, Principal; Dr. (Mrs.) A.A.Khurshid, Head of the Electronics Engineering department; Prof.



B.M.Hardas and Prof. (Mrs.) Gouri Morankar - Convenor, and student coordinator Mr.Pratik Jhawar, Mr.Khemant Gupta and Mr.Anukul Mhasmare were prominently present. The program began with lightning of traditional lamp. Prof. B.M.Hardas in his introductory remarks apprised the audience that 450 engineering and polytechnic students from 45 institutes participated in this mega event. The objective of the competition was to provide platform for budding engineers to share their creative ideas on the development of technology to meet the societal needs. The theme of the competition was Science and Technology for Nation Building. In his address chief guest Mr.P.M.Parlewar emphasized the need of such technical events which will promote new ideas and innovations for the social transformation. He advised the youth in Vidarbha to take maximum advantage of MSME initiatives for entrepreneurship development. In his presidential address Shri Govindlal Agarwal applauded the efforts of electronics engineering department in organizing ENNOVATE. E-book of abstracts was released on the occasion. Sheena Thomas and Ameya Pranjale compared the inaugural function while Mr.Pratik Jhawar proposed vote of thanks.

The project exhibition witnessed student visitors





Release of Ennovate E-book of abstracts participants



Dignitaries interacting with ENNOVATE

throughout the day. The projects were adjudged by eminent experts from industry and academia; Mr. Ravikiran Maske, HOD Elect. & Instrumentation, Indorama; Mr. Dharmendra Yadav, Assistant Manager (Plant Engineering) Ashok Leyland, Bhandara; Mr. Raviraj Reddy, Founder-NFLM, CIVN-Nanotechnology, VNIT; Dr. M. B. Chandak, Dr. D. R. Tutkane and Prof. P. A. Dwaramwar from RCOEM. The valedictory function was held later in the evening where prizes, trophies and certificates were distributed to the winners at the hands of Principal

Dr. R. S. Pande, Prof. S. S. Balpande, Prof. Vishal Rathee, Prof. Nikhil Damle, Prof. Smita Daware and Prof. Archana Tiwari worked hard for the success of the event. Electrolitz student volunteers took pains for organizing the event. Electrolitz Students' Society is thankful to management and Principal of RCOEM for their constant support and motivation in organizing ENNOVATE.

· An Alumnus from 2008 batch, Mr. Swachhand Chavan, Assistant Commissioner, currently serving Indian Revenue services (IAS), visited the Department on 26th February 2015. Mr. Chavan interacted with 3rd year students and gave his valuable guidance for various UPSC examinations including, IAS (Indian Administrative Service), Engineering Services Examination, and other posts and career options available with government sector. Mr. Chavan took questions from students regarding career options/UPSC preparation and guided them for further self-help.



Mr. Swachhand Chavan with HoD, Dr. A. A. Khurshid, Prof. J. Kalambe, and Prof. M. Korde

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### FACULTY CORNER

· Dr. S. B. Pokle's following papers were published:

o "Effective gateway discovery approach for Mobile ad-hoc networks" in International Journal of Advanced research in Science and engineering, ISSN: 2319-8354(E), Jan 2015, 4(4) pp: 300-306.

o "Analysis of Phase Noise and Frequency Offset using wavelets under different Channels for WPM Based Adhoc Networks" in International Journal of Computer Networks and Wireless Communications (IJCNWC), ISSN: 2250-3501, 5/1, Feb. 2015, pp-405-409.

· Dr. Rajeshree Raut's paper entitled "Review on Robust Estimator - Correlator for Spectrum Sensing in Cognitive", in Radio International Journal On Recent Trends And Innovation In Computing And Communication, 3/2, Feb 2015, pp. 703-706.

· Dr. Pankaj Agrawal's following papers were published:

o "Minimization of Latency and Power for Network-on-Chip" in International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), 3/2, February 2015, ISSN no: 2321-8169 Impact Factor - 5.098.

o "Effective Retransmission Reducing Ad hoc On Demand Multipath Distance Vector Routing Protocol for VANET", in International Journal of Engineering Research and General Science (IJERGS), 3/1, pp. 1383-1388, Jan- Feb. 2015, ISSN 2091-2730.

o "Cumulative Video Analysis Based Smart Framework for Depression Disorders" in Proc. of International Conference on Pervasive Computing ICPC-2015, organised by Singhad College of

Engineering, Pune, India, January 08-10, 2015. pp. 1-5, January 08-10, 2015, Published in IEEE Explore DOI: 10.1109/PERVASIVE.2015.7087145

· Dr. Manish Chawhan authored a research paper presented at 2015 International Conference on Advances in Computer Engineering and Applications (ICACEA) entitled "Design and Implementation of High Performance Architecture for Packet Classification" (ICACEA), 978-1-4673-6911-4/15/©2015 IEEE. The conference was held at IMS Engineering College, Ghaziabad, India on 19 and 20th March 2015.

· Dr. Rajeshree Raut chaired Session in 2nd International Conference ICAET-, Feb 26th 2015, organized by Anjuman College of Engineering, Nagpur.

· Dr. Rajeshree Raut was LEC Expert for "Rajeshree Mulak College of Engineering", Feb 2015.

· Dr. Rajeshree Raut was the PhD Examiner at SVNIT, Surat on Jan 20, 2015.

· Prof. B. A. Neole conducted a two-day Workshop on 'Microcontroller Based Project and Embedded C' on 9th and 10th January 2015 for third year EC Students.

· Prof. B. A. Neole arranged a guest Lecture on 'Business Analytic' for 2nd year EC students.

· Prof. D. G. Khushalani was reviewer for Journal of Electrical systems and Information Technology published under Elsevier.

### CAPACITY BUILDING ACTIVITIES

· Prof. P. N. Thakre conducted two STTPs for third and final year EC students under "The Spoken Tutorial





Industrial Visit to Hi-Tech Resistors Pvt. Ltd

project" developed by IIT Bombay for MHRD, Government of India. It is the initiative of the 'Talk to a Teacher' activity of the National Mission on Education

## DEPARTMENT OF INDUSTRIAL ENGINEERING

### FACULTY CORNER

- Dr. D.R. Zanwar and Dr. V.S. Deshpande's research paper "Determination of mass, Damping coefficient and stiffness of production system using convolution integral" was published in International Journal of Production Research, January 2015.
- Dr. A.S. Chatpalliwar's research paper "Protection of Distribution Transformer Using Auto Protected System" was published in International Journal of Mechanical and Production Engineering, March 2015.
- Dr. D.R. Zanwar's research paper "An approach, vibration based monitoring of bearing for 210 MW power plant turbine" was published in Industrial Engineering Journal, Jan 2015.
- Dr. V.S. Deshpande's research paper "Electromagnetic belt conveyor system for coal handling plant" was published in Industrial Engineering Journal, Feb 2015.
- Dr. V.S. Deshpande and Dr. I.P. Keswani chaired the session as Judges in Case study competition at

through Information and Communication Technology (ICT). The first workshop was from 29th December 2014 to 2nd January 2015 in which 80 students participated and were trained and examined on Open source platforms like Linux, Scilab, OScad, Latex and C-Cpp. The second workshop from 9th to 21st Jan 2015 saw the participation of 87 students who were trained for LibreOffice platform.

- Prof. P. R. Selokar organized an industrial visit to Hi-Tech Resistors Pvt. Ltd, Plot No. EL-1 (Electronic Zone), MIDC, Hingna Road, Nagpur on 28th Feb 2015 for 3rd year students. The students were demonstrated the manufacturing process of Wire wound resistors at the company premises.

"Quality Progress-2015" held at the Institute of Engineers (India) Nagpur on 21st and 22nd Feb 2015.

- Dr. V.S. Deshpande presented the following papers at Case study competition at "Quality Progress-2015" held at the Institute of Engineers (India) Nagpur on 21st and 22nd Feb 2015:
  - o "An approach for productivity enhancement of main sill of down packing bale press machine" at
  - o "Effective utilization of roll straightening machine by workstation design improvement in steel industry".
- Dr. I.P. Keswani delivered an expert lecture on "Technical services (testing, consultancy etc) to Indian Power sector" on 16th February 2015 at Koradi Thermal Power Station.
- Dr. I.P. Keswani delivered an expert lecture on "six sigma in Indian industries" on 2nd March 2015 at state level workshop on 'innovative quality practices: six sigma and robust design'. The workshop was organized by Department of Statistics PGTD, RTMNU Nagpur university campus.



Dr. Keswani at the workshop

### STUDENTS' ACCOMPLISHMENTS

- Utkarsh Rathi, Second Year, had the following achievements:
  - o He was awarded the National best speaker by Hons. Chief Minister of Maharashtra Mr. Devendraji Fadnavis on 13th Jan 2015 at the Bhartiya Chatra Sansad which is a platform for politically active youth recognized by UNESCO and multiple ministries of Govt. of India. He was selected as student speaker amongst ten thousand speakers, at MIT Pune.
  - o He won consolation prize in debate competition at Annasaheb Gundewar College on 3rd January 2015.
  - o He participated in 'N. K. Behere Smruti intercollege Debate competition' on 7th January 2015.
- Mr. Tumdeo Lengure a student of Final Year was shortlisted (Qualified) for "Parishram" A Techfest, In IIT Bombay (Asia's largest science And technology festival, from 2nd to 4th January 2015. He worked on the project "Ergonomically Design, Development and Fabrication of Low Cost Seeds Sowing Cart".
- Amod Kulkarni (III Yr. Ind), Mansi Nikumbh (II Yr. Ind), and Rajeshwari Chawan (II Yr. Ind) won 2nd prize in drama at "Yuva Rang" an Intra university competition organized by RTMNU On 11th March 2015.
- Shivani Rabra, Kajal Dubey and Ayushi Luthra won consolation prize paper presentation on "Green supply chain management practices in Indian and foreign context, a comparative illustration" at "Quality Progress-2015" held at the Institute of

Engineers (India), Nagpur, 21st and 22nd Feb 2015.

- Kajal Dubey, Shivani Rabra, and Ayushi Luthra won the 2nd prize in Case study competition at "Quality Progress-2015" held at the Institute of Engineers (India), Nagpur, 21st and 22nd Feb 2015.
- Pratik Gawande, Prasad Pimplapure, Mandar Bhonsle, and Yash Mohata presented a model on "Productivity improvement of small scale industry" at "Savishkar-iFAST-2015" a national exhibition and symposium on innovative and futuristic approaches in science and technology on 26th to 28th Feb 2015 at Maulana Azad National Institute of Technology, Bhopal.
- Student Participation in Automotive competition: Team IMPULSIFIERS of SAEINDIA RCOEM, collegiate club participated in the finals of SAE INDIA BAJA'15 held at the NATRAX facility in NATRIP (National Automotive Testing and R&D Infrastructure Project) Pithampur, near Indore from 18th to 24th February 2015. It is a student competition organized by SAE (Society of Automotive Engineers) India in which students have to design and fabricate an ATV (All Terrain Vehicle). Akshay Kumar Singh of 3rd Yr Industrial engineering was Lead driver of the Team. Students from 3rd year Industrial engineering along with Prof. Sagar Naidu participated in the event.

### CAPACITY BUILDING ACTIVITIES

- **Guest Lecture On "Entrepreneurship Development" By Mr. Mukesh Ashar on 25th February 2015**

The lecture was organized by 'Oasis - The Entrepreneurship Development Cell' especially for Final Year and third year students of Industrial Engineering. The resource person was Mr. Mukesh Ashar who is an entrepreneur and international trainer (JCI certified) with experience in telecom and industrial supply domain for last 25 years. He is the founding member of Lemon School. The programme commenced with the welcome address given by Prof. M. R. Jain. After that Mr. Ashar spoke on "What it takes



to be an Entrepreneur". He explained to the students about strategies they can opt for starting as an entrepreneur and its scope in India. He also tried in making the students understand that for entrepreneurship passion and enthusiasm is required and institutions like 'Lemon Ideas Innovations' is always ready to help see nthrough ideas of students into realities by mentoring and also investing in them. He organized the activity in which students had to come up with innovative business plans. The students found the session highly informative

• **Guest Lecture On Aptitude And Reasoning For Competitive Exam:**

Prof Yogesh Deshpande organized a guest lecture under IES (Industrial Engineering Society) for the students of 2nd and 3rd Year on Aptitude and Reasoning for competitive exam on 9th January 2015. The lecture was delivered by Prof. S.V. Deo from St.Vincent Palloti College of Engineering. Seventy students participated in the session.

• **Guest Lecture On Soft Skills And Grammar:**

Prof Yogesh Deshpande under IES (Industrial Engineering Society) organized the guest lecture for the students of 2nd and 3rd year on 5th Feb 2015. The lecture was delivered by Prof. Vinita Virgandham. She spoke on techniques useful in Group Discussion and Personal Interview and conducted Comprehensive test for the same. The session was interactive and students learned a lot out of it.

• **Guest Lecture On Scope Of Higher Studies Abroad:**



Prof. Vinita Virgandham interacting with the students

Prof Yogesh Deshpande under IES (Industrial Engineering Society) organized a guest lecture for the students of 2nd year on 10th March 2015. The lecture was delivered by Mr. Shailesh Atkari who shared his experiences and views about studying abroad. He is an alumni of Industrial Engineering and is working in Royal Bank of Canada (RBC), Canada as System Analyst in Operations Management. The session was interactive and students learned a lot out of it.

• **Orientation Program On Campus Recruitment:**

Prof Yogesh Deshpande under IES (Industrial Engineering Society) organized an orientation program for the Students of 2nd year on 6th January 2015. Prof. Anupam Kher (Dean, T&P) shared his views about the kind of companies that came for placement, their criteria of selection, recruitment policies and preparations required to crack the interview.



• **Expert Visit To The Department:**

Dr. S. N. Sapli from COEP, Pune visited as an expert on 20th and 21st Jan 2015 to share his expertise on NBA accreditation for PG degree in Industrial Engineering.

• **III E Foundation Day Program:** III E foundation day



program was organized on 31st January 2015 at the seminar hall of Industrial Engineering. Mr. Vishwas

Bhatkar was present as Chief Guest of the function and delivered speech on "5S" where as Mr. Vinod Varghese was present as guest of honour who spoke on "Six Sigma".

• **Parent-Teacher Meet: It was organized for the parents of all Years on 18th Feb 2015.**



Faculty members interacting with parents

• **BEYOND ACADEMICS**

• Charity Program At Chitnavis Centre: Prof Yogesh Deshpande under IES (Industrial Engineering Society)

carried out Charity Program at Chitnavis centre, civil lines Nagpur. Student Donate 28 set of crayons and chocolates at Chitnavis centre on 3rd February 2015, on behalf of Industrial Engineering Society. The students conducted and carried out games and activities for the tiny tots present there.



• **Alumni Meet PG:** Alumni Meet was organized for the students of PG for 2012-13 batch on 21st Jan 2015 in the seminar hall of Industrial Engineering.

## DEPARTMENT OF INFORMATION TECHNOLOGY

• Department of Information Technology has received NBA Accreditation for two years.

• Department of Information Technology also received the Placement Cup for highest number of placements in the year on 2013-14 on 14th February 2015.

• **FACULTY CORNER**

• Dr. D. S. Adane attended a three-day workshop on "Introduction to Graph and Geometric Algorithms" organized by Department of Computer Science and Engineering, VNIT, Nagpur from 15th to 17th January 2015.

• **STUDENTS' ACCOMPLISHMENTS**

• 77.3% of Final year IT students have got placed through campus drive till date.

• Nayan Goenka, student of VIII semester IT has started an IT company "Energy Technolabs Pvt Ltd" based in Bangalore. His start-up is regularly commissioned for socio-governmental initiatives, the most recent being an Android-based Traffic Regulation and Accident Rescue System named "Thane Traffic App" launched at the hands of Shri Amitabh Bachchan, Shri Vijay Kamble (IPS) DGP of Maharashtra, Singer Abhijeet Sawant and a host of other dignitaries in Thane, Maharashtra on 27th February 2015 in the presence of 3000 locals and press.



- Nayan Goenka, Sneha Virwani, and Pooja Kulwal, students of VIII semester, presented a paper entitled "ITBUZZ.CO - A Collaborative Academic Portal" in International Conference on Emerging Trends in Engineering and Technology (IFERP), held at Hotel Sun n Sand, Nagpur on 25th January 2015.
- Ayush Sharma, Disha Goel and Garima Choudaha, students of VIII semester, presented a paper entitled "Autonomous Indoor Navigation of Quadrator using visual slam" and secured 1st position in National Conference on Advanced Technology-"NCOAT-NIRMITI-2015", held at Priyadarshini Institute of Engineering and Technology, Nagpur on 28th February 2015.
- Pankaj Airy, Kirti Mohnani and Vishaka Channe, students of VIII semester, presented a paper entitled "Virtual Lab" and secured 1st position at National Level Technical Event-"Shikhar-2015", held at Jhulelal Institute of Technology, Nagpur on 14th February 2015.
- Rinkita Jain, Varsha Sharma, and Jaya Rachwani, students of VIII semester, presented a paper entitled "Coder Bidding System" and secured 2nd position at National Level Technical Event-"Shikhar-2015", held at Jhulelal Institute of Technology, Nagpur on 14th February 2015.
- Vidu Agrawal, Vishaka Pashine, and Shubhi Jain, students of VIII semester, presented a paper entitled "Speech to Sign Translation using Google Voice" and secured 1st position at National Level Technical Event-"Technovision 9.0", held at Shri Ramdeobaba College of Engineering and Management, Nagpur from 11th to 12th February 2015.
- Saurabh Sahu, Divya Tahalramani and Kirti Motwani, students of VIII semester, presented a paper entitled "Determining Parts of Speech and Meanings in a Sentence Category: Computers" and secured 3rd position at National Level Technical Event-"Technovision 9.0", held at Shri Ramdeobaba College of Engineering and Management, Nagpur from 11th to 12th February 2015.

### CAPACITY BUILDING ACTIVITIES

- A guest lecture on "Distributed File Systems" was organized for VIII Semester students on 28th February 2015. The speaker was Dr. U. A. Deshpande Associate Professor from Department of CSE, VNIT Nagpur. Prof. Nishat A. Ansari co-ordinated the event.
- A guest lecture on "E-commerce: Scopes and Markets" was organized for VI semester students on 13th January 2015. The speakers were Mr. David Urmann and Mr. Jayesh Bagde, Co-founders of getnow.at, a hyper local ecommerce store. Prof. P. V. Kokardekar and Prof. Anand Dhawale co-ordinated the event.
- A guest lecture on "CAT exam preparation" by IMS, Nagpur, was organized for VI semester students on 21st February 2015. Prof. P. V. Kokardekar co-ordinated the event.
- Five days workshop on Linux Operating System was organised for IV Semester students from 23rd March 2015 to 27th March 2015. The speaker was Mr. Madan Tiwari from Masstach Computer Solutions, Nagpur. Prof. Rakesh K. Kadu co-ordinated the event.
- The Parent Teachers meet was organized by the Department of Information Technology on 14th March 2015 for IV, VI and VIII semester IT. 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, Head of the Department met with the parents and took their feedback and suggestions for overall improvement.

### BEYOND ACADEMICS

Installation Program of Entrepreneurship Development Cell, "The Golden Dreams" was conducted in IT department on 27th March 2015. Mr. Mukesh Ashar and Mr. Manish Upadhyay from Lemon School of Entrepreneurship presented a guest lecture for the students of Information Technology.

## DEPARTMENT OF MECHANICAL TECHNOLOGY

### FACULTY CORNER

- Prof. P.B. Shiwalkar delivered an expert lecture on Mechatronics at the "One Day Orientation Workshops on Mechatronics", organized by Mechanical Engineering department of K.D.K College of Engineering Nagpur on 17th March 2015.
- The following papers of Prof. A. M. Andhare were published
  - o "Heat Transfer Studies in Helically Coiled Tube: A Review" in International Journal of Research in Mechanical Engineering, 2, pp 74-83.
  - o "Thermal Analysis of a Helical Coil Heat Exchanger" in International Journal of Research in Engineering and Technology, 4, pp 416-423.
  - o "Design and Thermal Evaluation of Shell and Helical Coil Heat Exchanger" in International Journal of Innovative Research in Advanced Engineering, 1, pp. 135-143.
- Prof. Pranjali S. Deole's paper entitled "Electromagnetic Belt Conveyor System for Coal Handling Plant" was published in Industrial Engineering Journal, VIII/22, pp. 32-38.
- Prof. Y. M Sonkhaskar chaired the power point presentation competition at "ANVESH-2015, an all India Level Mechanical Engineering Research Oriented Power Point Presentation and Model Competition", held on 9th March 2015 at Nagpur Institute of Technology.
- Prof. P.B. Shiwalkar attended one day workshop on "Insight to Mechatronics", organized by Mechanical Engineering Department of St. Vincent Pallotti College of Engineering & Technology, Engineering Nagpur on 14th February 2015.
- Prof. Pranjali S. Deole attended a three day training program on "Vibration Analysis and Condition

Monitoring" at VNIT, Nagpur from 18th to 20th March 2015.

- Prof. Pranjali Deole, Prof. Nitin Gudadhe, Prof. Rahul Waghmare and Prof. Rahul Dixit attended a One Day Workshop on "Energy Efficient Technology" organized by Micro Small and Medium Enterprises Development Institute, Government of India, Nagpur on 3rd March 2015.
- Prof. Rahul Waghmare attended a three-day workshop on "Power Plant Familiarization" at Adani Power Training & Research Institute (APTTRI) of Adani Power Maharashtra Ltd. Tirora from 19th to 21st January 2015.

### STUDENTS' ACCOMPLISHMENTS

- The campus recruitment drive in this quarter saw 53 placements with an average package of 3.3 lakh per annum. Students received offer letters from the following companies, Sunflag Steel and Iron (4), Raymonds (2), ITC Infotech (03), Blue Star India Ltd (6), Flour Daniel (3), Infosys (19), Tech Mahindra (06), L&T Infotech (03), Capgemini (3), HSBC GLT (01), Ligman Lighting India Pvt Ltd (01), iNautix Technologies (02).
- Ms. Bhagyashree Chauhan of Final Year brought laurels to the college by getting placed in ARAI (The Automotive research Association of India), during the H.R meet organized at SAEINDIA BAJA'15 competition. She cleared the Aptitude Test and Group Discussion with flying colors and underwent intense grilling by the interviewers to test her technical acumen and attitude. Impressed by her technical ability, communication skills, zeal to learn and excel, the officials of ARAI selected her. She will be joining ARAI as GET (Graduate Engineer Trainee) from 1st July 2015.



· Suman Sourav, Dharmesh Nikhar, Mehandra Sengar, Suchit Bele, Suraj Ukinkar, Vaibhav Khante, Vishal Navandar, Akash Rathi, Suraj Jaiswal and Saurabh Agrawal of VIII semester participated in national Level Innovation Competition "SPARKLE 2015 All India Engineering Student Contest" Organized by KPIT Cummins and COEP at KPIT Cummins Hinjewadi, Pune from 19th to 22nd March 2015. The students prepared a Rapid Prototyping model of their innovative Carburetor and spark Advance Mechanism for S.I engine running on ethanol and its blends. The student also demonstrated its working on an actual engine S.I engine. The students qualified three rounds to reach the finals and were amongst the top 18 out of 425 entries from across the nation.

· Students of VIII semester Suman Sourav, Dharmesh Nikhar, Mehandra Sengar, Suchit Bele, Suraj Ukinkar, Vaibhav Khante, Vishal Navandar, Akash Rathi, Suraj Jaiswal and Saurabh Agrawal secured 3rd Position at "ANVESHAN 2015- A One Day All India Level Mechanical Engineering Research Oriented Power Point Presentation & Project Model Competition" organized by Nagpur Institute of Technology (NIT) in Collaboration with The Institute of Engineers(India) Nagpur Local Centre at NIT Nagpur on 9th March 2015.

· Team IMPULSIFIERS of SAEINDIA RCOEM, collegiate club participated in the finals of SAEINDIA BAJA'15 held at the NATRAX facility in NATRIP (National Automotive Testing and R&D Infrastructure Project) Pithampur, near Indore from 18th to 24th February 2015. SAE INDIA BAJA'15 is a student competition organized by SAE (Society of Automotive Engineers) India in which students have to design and fabricate an ATV (All Terrain Vehicle). The 20 student members of team IMPULSIFIERS worked meticulously to design, evaluate, analyze, fabricate and test the ATV on their own. Students used modern CAD software while designing of the vehicle and performed the analysis using tools like ANSYS and HYPERWORKS in the departmental CAD/CAE lab. The entire vehicle was fabricated in the college workshop by the. The Vehicle

went through rigorous inspection and evaluation by the experts hailing from various automobile companies and received appreciation for its low cost design and self manufactured components. Team IMPULSIFIERS was in top 10 teams in the design and cost category amongst 110 teams including teams from IIT's and NIT's.

Team: Rupak. Ghawghawe(Captain), Bhagyashree Chauhan(Team Manager), Ankush Wawoo, Ritesh Yadav, Shubham Hardas, Navjot Acharya, Sanket Gomekar, Digvijay Turkar, Ishant Goyal, Abhishek Kanth, Shubham Baranwal, Shubham Pokle, Akshay Rathi, Gaurav Badar (VI semester Mech), Abhishek Mishra, Saurabh Trivedi, Akshay Kumar Singh(VI semester Ind.), Mayank Mohoni(VI sem Electronics), Siddharth Singh, Shymalee Mishra (IV Semester Mech.)

Faculty Advisers: Prof. Roshan U Patil, Prof. Bhushan C Bissa (Department of Mechanical Engineering), Prof. Sagar V Naidu (Department of Industrial Engineering)

#### CAPACITY BUILDING ACTIVITIES

##### · Continuing Education Program

The Department of Mechanical Engineering and Continuing Education Cell RCOEM have started Continuing Education Program (CEP) under which certificate course in Computer Aided Engineering (CAE) and Computational Fluid Dynamics are being offered. These programs are open for students of our college as well as outsiders. Under this CEP the certificate course in Computer Aided Engineering (CAE) began from 17th March 2015. Students will learn mapping of structural, Thermal and Fluid flow analysis. Prof. G. R. Nikhade, Prof. S.A. Giri, Dr. V. V. Shukla and Prof. R. U. Patil are the trainers and coordinators for the CEP.

##### · Expert Lecture by Dr. A. M. Kuthe

Expert lecture by Dr. A. M. Kuthe, Professor, VNIT, Nagpur, was held at the Department of Mechanical Engineering for the students of Semester-VIII in the classroom ME-12 on 05th Jan 2015. The lecture was on

"3-D Printing for Engineering and Medical Applications". The demonstration of ABS plastic RP parts and the metallic bones manufactured with special investment casting techniques was exciting and wonderful. He briefly presented the case studies on acetabulum fracture, distorted mandibular joint, hip and knee implants designed and developed by his team at CAD/CAM center VNIT. He appealed students to acquire the skills for application oriented engineering and technology with an emphasis on biomedical engineering.

He also demonstrated the website "shalya tantrandya", created by his biomedical engineering incubation center team. Towards the end, during the question and answer section, students of Sem-VIII requested him to permit them to visit the CAD / CAM center of VNIT, which he happily agreed to. About 67 students and some faculty members of the Mech Engg Department attended the program. Dr. (Mrs) S D Moghe, Dr G R Potey, Prof. P B Shiwalkar, Prof (Mrs) P S Deole, Prof A D Urade, Prof R M Waghmare were present the session. Dr. Vishal Shukla coordinated the program and thanked the expert speaker, HOD, Management, faculty and the students.

##### · Expert Guidance by Prof. P. R. Gandhi

Invited guidance discussion on "Patent Filing, Copyright And Intellectual Property Rights" by Dr. P. R. Gandhi, Professor, Applied Physics Dept. RCOEM, Nagpur, was held at the Department conference room on 10th Jan. 2015 for the faculty of Mechanical Engineering. Dr. V. S. Deshpande, Professor Industrial Engineering welcomed Prof. P. R. Gandhi. Dr. K. N Agrawal, Professor and HOD Mech. Engineering introduced the speaker and the objective of the lecture.

Dr. P. R. Gandhi presented various processes required for filing the patent applications with different national and international authorized agencies. He briefly explained a couple of previous exemplary cases to demonstrate the procedures. He also discussed the importance of copyright and the intellectual property rights. How CR and IPR are effective and why the faculty should be cautious about the exclusive

rights for their research work and projects. Prof. P. R. Gandhi emphasized the knowledge canopy like access, generate, create and thereafter implement philosophy, like owning, applying, protecting and trading. He guided the faculty of Mechanical Engineering as to what can be patented and the patenting agencies in the context of what 'product' and 'idea' means.

##### · Report on Expert Lecture Delivered by Mr. Dushyant Shesh

Guest lecture on "Career opportunities and options in Indian Navy" by Lieutenant Dushyant Shesh, who is a trained Pilot officer of Helicopter school, was held at the Department of Mechanical Engineering for the students of Semester-VI on 09th Jan 2015. Mr. Akshay Deshmukh, a student of Jamnalal Bajaj Institute of Management Studies was also present for the lecture. Lieut. Dushyant Shesh and Mr Akshay Deshmukh are both the alumni of Mech Engg RCOEM (First Batch-2013). Prof. S R Kulkarni, of the Deptintroduced Mr Dushyant and welcomed him.

Lieut. Dushyant presented the various career opportunities, options and methods of entry into the Indian Navy. He briefly explained the 'role of Indian Navy'. The navy has to support the foreign policy objectives to build the bridges, to signal capability and intent to deter potential adversaries. He also discussed various platforms like surface ships, frigates, OPV, Minesweepers, subsurface like submarines (Sindughosh, Shishumar, chakra), Air Assets like MIG 29 etc. He explained the various career options for Mechanical Engineering graduates like, Executive branch, Engineering, Education and electrical. Typically Execution branch consists of Law, Air Traffic Controller (ATC), Naval Armaments Inspection, IT, Logistics, Gunnery & Missiles, Antisubmarine warfare, Pilot submarine, Diving etc. In an answer to a question, he specifically stated that girls can join Indian Navy as officer ATC or into the logistics in the future there shall be more opportunities for women.

Through his motivating and inspiring dialogue, Lieut. Dushyant, also explained the how to get into Navy. He



elaborated the Combined Defense Services Exam (CDSE), University Entry Scheme (UES), Short Service Commission (SSC- 14 year duration), the pattern they follow and brief guidelines for how the preparation can be done. He also told the students about the opportunities in corporate after SSC.

Mr. Akhsay Deshmukh also briefly guided and elaborated on the MBA Entrance exam. His score of 99.85 landed him to Jamnalal Bajaj Institute of Management Studies. Many of the MBA aspirants were happy to interact with him. Dr. V. V. Shukla coordinated the program and gave the vote of thanks.

#### • Expert Lecture Delivered by Shri Amol Joshi

Expert lecture on "Quality circles (QC)– Concepts and Practices" by Shri. Amol Joshi, Deputy General Manager, Mahindra and Mahindra, Nagpur, was held at the Department of Mechanical Engineering for the students of Semester-IV on 08th January 2015. Dr. V. S. Deshpande, former Principal and now Professor, Industrial Engineering, RCOEM, introduced Mr Joshi and welcomed him with a floral bouquet. Mr Joshi, DGM, M&M, presented the importance of lateral thinking, and emphasized on thinking "out of the box". He highlighted the technique of brainstorming and norming to formulate the methodology for framing objective and approach towards problem solving. Through his motivating and inspiring dialogue, Mr Joshi, simplifying QC, explained the relevance of Quality Circles from students' point of view. He asked the students to visit the website of QC forum of India to know the forum, process and applications for problem solving. Dr V S Deshpande, presented the concluding session. He appealed to the students to form a group of 4-5 students and take up some problem solving activities to implement QC concepts and undergo the scientific and logical brainstorming-norming sessions. This type of QC practice shall definitely be new and innovative for them to obtain some real conclusions to the objectives they set.

#### • Autonomy Orientation by Dean Academics Dr. Abhijeet Agashe

Autonomy orientation by Dean Academics of RCOEM

was held at the Department of Mechanical Engineering for the students of Semester-IV on 08 January 2015. The objective of the program was to discuss the academic policies adopted in the autonomy status. Dean Academics, Dr Abhijeet Agashe, explained the implemented academic module, policies pertaining to academic functions and governance. During the interactive session he clarified the various doubts of the students related to:

- Detention
- CGPA
- Make up examination
- Attendance criteria etc.

Dr. Agashe also explained that the detained students can neither appear for a regular exam, nor take up the make-up test, until the student completes the prescribed course work and obtain the course completion certificate from the course teacher. Dr. Agashe, specifically elaborated that the students can apply and appear for make-up test to improve CGPA provided, if and only if their CGPA is below 6.0. The students were more than happy to interact with Dean Academics and were satisfied with the answers to their queries. Prof. G. R. Nikhade, Prof. R.U Patil and Dr. V. V. Shukla attended the program.

#### • Industrial Visits

Industrial visit for VI semester students were organized to ABC castings and Dinshaws Dairy Food Pvt Ltd, Ice-cream plant, MIDC Butibori Nagpur on 23rd January 2015. Prof. R. M. Waghmare, Prof. N. P. Gudadhe and Prof. S. S. Joshi accompanied the students.

Industrial visit for VI semester students were organized to JSW Steel, A-10/1 MIDC Industrial Area, Kalmeshwar, Nagpur District on 23rd January 2015. Prof. Y. M. Sonkhaskar Prof. R. M. Waghmare and Prof. N. P. Gudadhe accompanied the students.

Industrial visit for VI semester Students were organized to Adani Power, Plot A-1, Tirora Growth Centre MIDC Area, Tirora, Gondia on 23rd January 2015. Prof. M. M. Gupta Prof. R. M. Waghmare and Prof. N. P. Gudadhe accompanied the students.

## BASIC SCIENCES DEPARTMENT OF CHEMISTRY

• Dr. A.V. Bharati presented three research papers in the international conference on Futuristic Materials and Emerging Trends in Forensic and Life Sciences (ICFM-2015). University Department of Chemistry, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur under the auspices of Indian Association of Solid State Chemists and Applied Scientist and in association with Institute of Forensic Science, Nagpur and S. K. Porwal College, Kamptee, was organizer of the International Conference. This conference was held on 5th-7th February 2015 at Hotel Centre Point, Nagpur:

- a. He presented on, 'Nitric Oxide Oxidation and Subsequent Absorption with water in Airlift Reactor'.
- b. As a co-author on, 'Direct oxidative esterification of iso amyl alcohols with different carboxylic acids using hydrogen per oxide as a novel catalyst'
- c. He presented on 'Synthesis and Biological Activities of Prominent Benzimidazoles: A critical Review'

• Ms. Sanjogta Meshram presented a research paper on, 'Direct oxidative esterification of Iso amyl alcohols with different carboxylic acids using hydrogen per oxide as a novel catalyst' in the International Conference on Futuristic Materials and Emerging Trends in Forensic and Life Sciences (ICFM-2015). University Department of Chemistry, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur under the auspices of Indian Association of Solid State Chemists and Applied Scientist and in association with Institute of Forensic Science, Nagpur and S. K. Porwal

College, Kamptee, was organizer of the International Conference. This conference was held on 05th-07th February, 2015 at Hotel Centre Point, Nagpur.

• Ms. Sanjogta Meshram's paper entitled 'Evaluation of Adsorptive Capacity of Bio adsorbent in Removal of Congo Red from Aqueous Solution' International Journal of Science and Research (IJSR), 4/2, February 2015, ISSN 2319-7064.

a. Dr. C. P. Pandhurnekar's paper entitled Studies on the new fuels with Santilli magnecular structure and their industrial applications, was published in AIP Conference Proceedings, 1648, pp. 510015 (2015); doi: 10.1063/1.4912720

b. Dr. C. P. Pandhurnekar presented two research papers in the International Conference on Futuristic Materials and Emerging Trends in Forensic and Life Sciences (ICFM-2015). University Department of Chemistry, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur under the auspices of Indian Association of Solid State Chemists and Applied Scientist and in association with Institute of Forensic Science, Nagpur and S. K. Porwal College, Kamptee, was organizer of the International Conference. This conference was held on 05th-07th February, 2015 at Hotel Centre Point, Nagpur. The details of the of papers which were presented are as follows:

• Volumetric and Viscometric Study of an anticonvulsant drug Sodium Valproate in Aqueous Medium at Different Temperatures, Mondal S, Dhondge S. S., Pandhurnekar C. P., Paliwal L. J.,



· Study of Removal of Ni<sup>2+</sup> ions by Adsorption onto Low Cost Fly Ash Adsorbent, Ajay K. Agarwal, Mahendra S. Kadu, Chandrashekhar P. Pandhurnekar, Ishwardas L. Muthreja, Himani N. Chopde

He also worked as the member of Local Organizing Committee in the Accommodation Committee during the conference. During valedictory function, he also received the "Award of Appreciation" for his research work by Dr. V. S. Sapkal, Former Vice Chancellor of R. T. M. Nagpur University, Nagpur and Dr. S. Wate, Director, CSIR-NEERI, Nagpur



· S.S. Butoliya's paper entitled "Non-isothermal degradation studies and ion-exchange properties of 4-aminosalicylic acid, urea and formaldehyde copolymer res" was published in J. Indian Chem. Soc., 92, January 2015, pp. 1-11.

## DEPARTMENT OF HUMANITIES

### FACULTY CORNER

· Dr. Deepshikha Mehra was VC's nominee at the interview panel for Assistant Professor at YCCE on 21st January 2015.

· Wildlife photograph taken by Dr. Deepshikha Mehra was invited and published in "the Tadoba Inheritance" Asia Tadoba Coffee Table book, eds. by Bittu Sahgal and Lakshmy Raman, published by Sanctuary Asia, Mumbai, ISBN 819069534-7, pp. 74 printed by Pragati Art Printers. Hyderabad.

· Dr. V.H.Asudani and Dr. Monika R Seth presented a research paper entitled, 'A comparative study between professional and non-professional course students: Social Adaptability' in a two-day International Conference on 'Educational Policy for Strong Nation' organized by Bhartiya Shikshan Mandal, University of Rajasthan, Agrawal P.G. College and Vidya Bharti Rajasthan in Jaipur on 17th and 18th January 2015.

· Dr. Monika R. Seth and Dr. Vinod H. Asudani's paper entitled, "Spiritual Quotient and Psychological Well-being Among Under Graduate Engineering Students" was published in a peer reviewed refereed monthly e-

journal, Journal of International Academic Research for Multidisciplinary, with an Impact factor 1.625, ISSN: 2320-50843, Volume 2, Issue 12, January 2015, Pg. 336-348.

· Prof. Akanksha Deshpande, Prof. Mouli Chowdhury and Dr. Vinod Asudani presented a research paper titled, 'Effective Public Speaking Intervention: Pre and Post Assessment' at Confluence VI, a two day International Conference on Teaching and Learning English as a Second Language, organized by Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur on 23rd and 24th January 2015.

· Prof. Rebecca Khemani, Dr. Vinod Asudani and Dr. Monika R. Seth presented a research paper entitled, 'Impact of Personality on Grammar Usage: A comparative study' at Confluence VI, a two day International Conference on Teaching and Learning English as a Second Language, organized by Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur on 23rd and 24th January 2015.

· Prof. Pratishruti Singh and Dr. Vinod Asudani presented a research paper entitled, 'Learning English through Reverse Gear' at Confluence VI, a two day

International Conference on Teaching and Learning English as a Second Language, organized by Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur on 23rd and 24th January 2015.

· Dr. Monika R Seth and Dr. V.H. Asudani presented a research paper entitled, "Practice of Gandhian Values among Engineering Students with special reference to RCOEM, Nagpur" in a two-day Interdisciplinary International Conference on 'Significance of Mahatma Gandhi's Methodology in 21st Century' organized by Gandhi study centre, New Arts, Commerce and Science College, Wardha on 30th and 31st January 2015.

· Ms. Pratishruti Singh presented a research paper entitled, 'Gandhian Leadership and management of National Movement in India' in a two-day Interdisciplinary International Conference on 'Significance of Mahatma Gandhi's Methodology in 21st Century' organized by Gandhi study centre, New Arts, Commerce and Science College, Wardha on 30th and 31st January 2015.

· Dr. Monika R. Seth's paper entitled, 'The Impact of Authoritarian and Indulgent Parenting Style on Educational Performance Of Learners At High School Level' was published in a peer reviewed refereed monthly e-journal, International Journal of Social Science and Interdisciplinary Research (IJSSIR), with an Impact factor 3.503, ISSN 2277-3630, Volume 4 (2), February 2015, Pg. 101-111.

· Dr. Monika R Seth and Dr. V.H.Asudani's presented a research paper entitled, "Social management" in two day International Conference on 'Enterprise Value Creation Through Creative Management Practices' organized by Tripude Institute of Management, Nagpur on 26th and 27th February, 2015

· Prof. Pratishruti Singh and Dr. Vinod Asudani gave a presentation on 'Expanding the Frontiers of Reality' on 'The Role of language in the Perceptual Processes with Reference to Alfred Korzybsky' at LAD Roundtable-2015 on 20th of March, 2015.

· Dr. Monika R. Seth's paper entitled, "A comparative

study between professional and non-professional course students: Social Adaptability" was published in a peer reviewed Bi-monthly, Bi-Lingual Research, International Journal of Humanities and Social Science Studies (IJHSSS), with an Impact factor 0.168, ISSN 2349-6959, volume 1, Issue-V, March 2015, pg no.26-31.

· Prof. Pratishruti Singh and Prof Akanksha Deshpande coordinated the Republic day cultural programme held on 26 January 2015 at the college.

· Dr V H Asudani was invited to deliver a guest lecture on 'Multiculturalism and the it's Role among Students' organized by the Department of Humanities, Priyadrashini College of Engineering, Nagpur on 25th February, 2015

· Dr. V H Asudani was invited as a resource person to conduct a workshop on 'Use of Modern Technology in Teaching-Learning Process of Commerce and Management faculty for Effective Teaching Practice' at G S College of Commerce, Wardha on 13th February 2015

· Dr. V H Asudani was invited as the Chief Guest at 'Saraswati sadhna Samaroh' to felicitate meritorious students. This programme was organized by Shri Nagpur Gujarati Brahma Samaj, Nagpur on 1st February, 2015

· Dr V H Asudani was invited as a resource person to deliver lectures in the 88th and 89th Orientation Programmes sponsored by the UGC and organized by UGC-Academic Staff College, RTMNU on the topic 'Multiculturalism and Role of Teachers' on 4th & 5th February 2015.

· Dr V H Asudani was invited as the Chief Guest to the programme 'Ek Shaam Desh ke naam', a programme organized by the New Bhopal Civil Thekedar Ekta Kalyan Samiti, Bhopal to mark Republic day of India on 26th January 2015.

· Prof. Pratishruti Singh was invited as the judge for the event 'Orator of the Year, Prerna 7' held on 28th January, 2015



- Prof. Pratishruti Singh was invited as a panelist to WAD for MCA 2015, organized by the Department of Computer Application, RCOEM held on 8th February 2015.
- Prof. Pratishruti Singh was invited as the judge for 'Big Fight, Aarohi-2015', a debate competition organized by VNIT, Nagpur at their annual fest on 22nd February 2015

- Prof. Pratishruti Singh was invited as the subject expert and as a panelist to Kendriya Vidyalaya, Ajni, Nagpur to conduct interviews for the selection of English language teachers, held on 7th March 2015
- Prof. Pratishruti Singh was invited as the subject expert and as a panelist to Kendriya Vidyalaya, Vayusena Nagar, Nagpur to conduct interviews for the selection of English language teachers, held on 17th March, 2015

## BEYOND ACDEMICS

### REEF (Ramdeobaba College Engineers for Environment Forum)

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

#### Installation of Core Team

REEF's installation ceremony was held on 10th January 2015. It was graced by the Principal of RCOEM Dr. R S Pande and Dr. V H Asudani, Head of the Department of Humanities. Teaching faculty of different departments, parents of REEFians and college students also attended the installation. The ceremony was organized in the Electronics Department Auditorium of the college. Dr. Deepshikha Mehra, the mentor faculty of REEF initiated the program with a brief overview about REEF. After the traditional lighting of the lamp the ceremony began with the presentation of REEF's annual report and all its activities in the past academic year presented by Rohan Dekate, Indrayani Thakare and Sneha Wilson. The outstanding REEFians were rewarded for their work by the Principal, Dr. R S Pande and HOD of Humanities Dr V H Asudani. The awardees included Pratik Gupta, Sneha Gupta, Aaditya Somani, Rohan Dekate, Omkar Kekre, Manas Agrawal, Madhulika Dolke, Srushti Mehatkar, Rohit Hazare, Harjot Singh Kahai, Radhika Kale and Vishakha Jaiswal.

The new Gold and Silver core members were also inducted and the secretaries for the 1st, 2nd, 3rd and 4th years were assigned. Radhika Kale then delivered the vote of thanks as the program coordinator. The ceremony was brought to an end by showing a short awareness video on the "Banning of Chinese Manjha" made by REEFians.

#### Environmental awareness activities

- Education tour – TATR: A group of 17 REEFians visited Tadoba Andhari Tiger Reserve (TATR), Chandrapur, Maharashtra on 13th February 2015 as an educational field trip.
- REEFians have started with EnviroQuiz - interactive online quiz- aimed at Facebook users. The quiz has been well received online as it regularly gets answers.
- REEFians made posters to mark important environmental days such as World Water Day (22nd March). These posters were put up on notice boards of all branches as well as around campus to spread awareness.
- **REEF blog called "REEFlog"** (<https://rcoemreef.wordpress.com>) has been initiated which provides a platform to REEFians for putting up and sharing their ideas, articles, poems and write-ups on environment or anything related to nature. REEFians have penned down their ideas on

multifarious topics such as encroaching the tiger corridors, desertification, carbon footprint, quality of air, bird-watching experience and many more. REEFlog is gaining popularity among masses and soon it is going to invite write-ups from outsiders on other topics as well.

- Nisargayan workshop: Nisargayan ('Nisarga' meaning 'Nature' and 'ayan' meaning 'moving towards') was a one day seminar with Mr. Dilip Kulkarni and Dr. Poornima Kulkarni. REEFians Rohan Dekate, Omkar Kekre, Manas Agrawal, Rohit Hazare and Madhulika Dolke had an opportunity to attend the workshop on 8th March 2015 at Shivaji Nagar Sabhagruha, Nagpur. The complete day was dedicated towards understanding what nature is, what is the role of mankind in it and how we are failing to do it? It helped REEFians to understand how the development strategies followed by most countries are wrong and why they should move towards a sustainable lifestyle that also drives economies without harming the environment.

- Makarsankranti Video: As REEFians are dedicated bird watchers they considered it a prime responsibility to create awareness about the brutal deaths of innocent birds during the festival of kite flying - Sankranti. Awareness videos were made on this theme with a purpose of making people aware of the massacre due to Chinese Manjha just for the sake of our enjoyment. The REEFians working on this project were Omkar Kekre, Rohit Hazare, Srushti Mehatkar, Madhulika Dolke, Taneesha Godre, and Mayuri Kotian. The videos were made in three different languages English, Hindi and Marathi. REEFians also took the initiative to discourage the use of Chinese manjha by uploading these videos on YouTube and spreading it on the social networks like Facebook and WhatsApp.

- Session on bird watching for students of CPS Dhabha: REEFians organised a bird watching session for students from 1st grade to 5th grade of Centre Point School, Dhaba, Nagpur at Gorewada Biodiversity Park on 28th March 2015. Before

beginning the trail, the kids were told about the basics and do's and don'ts of Bird Watching. Around 70 students along with their teachers and parents were part of the session. Initially students were divided in a group of 10. Various teams covered various spots of the park for one hour. In the end, the team who spotted maximum birds were declared as winners and were awarded. REEFian Rohit Hazare co-ordinated the activity.

- ebirds workshop – Rashtrabhasha Sankul, Nagpur, organized by Wild-CER and Bird count: REEF members attended the eBird workshop organized by Wild-CER in Nagpur. eBird is a website (<http://ebird.org>) created by the Cornell Lab of Ornithology of USA and it aims to connect bird watchers across the globe to provide with important data of birds and upload it on the website in the form of checklists. The speaker of the workshop was Mr. Rohit Chakravarty. The participants included Vatsalya Mathur (REEF alumni), Sneha Gupta, Omkar Kekre, Rohit Hazare, Mayuri Kotian, Taneesha Godre, Rohan Dekate, Srushti Mehatkar, Harjot Singh Kahai, Manas Agrawal and other bird watchers from Nagpur including veterinary students. Various experts like Dr. Tarique Sani, and Dr. Anil Pimplapurkar also attended the workshop. The participants were briefed about the working of eBird and how can they contribute to this website which is gaining popularity and is an important tool for monitoring birds, their migration and occurrence characteristics. REEF members have taken up the task of uploading all their birding checklists on eBird and their rank is 1st in Maharashtra with 211 species and 39 checklists. Their life list includes 257 bird species and 85 complete checklists uploaded on eBird standing 75th all over India.

- REEF continued with its awareness creation about environment through the social network site by uploading information on pollution, birds, waste management, and many other issues of concern related to environment on its facebook page <https://www.facebook.com/reef.rcoem>.

#### Environment Conservation Activities



· **Herbarium:** Herbarium is an ongoing project undertaken by REEF. Its main objective is make a biodiversity register of the flora of college campus. This will enable us to know what kind of diversity of trees and shrubs exists in the college. Also the herbarium will serve as a proof of the existence of certain plant species in case it gets extinct in the future. REEFians have consulted experts in taxonomy from Nagpur University to learn the process of making a Herbarium. This project began in February 2015 and had two main parts: Numbering trees and collecting samples. REEFians have numbered 864 trees and 35 species have been collected and preserved. Further REEFians intend to identify and study the distribution of various species found in the campus.

· **Manja Removal:** Every year during the festival of Makar Sankrant, the most prominent of all activities that the festival symbolises, is of kite flying. But today this tradition is proving out to be deadly for humans and birds alike. The abrasive manjha gets entangled into the trees when a kite loses a flight and acts as a deadly web for birds that fly past them without being able to notice. REEFians, concerned about this critical danger to birds removed the manjha from the bustling premises of Rajbhavan with the help of the authorities in order to maintain the green paradise for birds which is Rajbhavan. This activity took place for three days between 5th to 7th February. The collected manjha would be soon disposed away suitably after consultation for the most eco-friendly way to do so.

· **Bird houses installed:** REEFians undertook another bird conservation project of providing shelter to the birds by making bird houses for them. The houses were made of wood named Arjat which prevents the house in all the seasons from deteriorating. REEFians Arpit Agrawal with Manas Agrawal and Yash Mohbe took the initiative for this project. REEFians Aaditya Somani and Ashish Chandan actively co-operated with them in the completion of the project. There were a total of 7 bird houses installed in the college campus on 24th February 2015. Of the 7 houses, 2 houses were installed near Boys Hostel mess, 2 houses were installed behind canteen area besides the library

premises, 1 each in Ramdeobaba temple's garden, Administrative block's garden and near IT complex well were installed. All the places where the houses are installed are pollution free region at higher altitude with lots of greenery around where there is no disturbance of any human activity.

· **Bird race:** The Hong Kong and Shanghai Banking Corporation Limited (HSBC) and Yuhinaeco-media along with Wild-CER (Society for Wildlife Conservation, Education and Research) had organised Nagpur Bird Race on 4th January 2015. In a marked change from previous years this year onwards the Bird Race was declared to be a non-competitive event. Yet the competitors participated in it as a race to spot the maximum number of species found in and around Nagpur. The main objective of the bird race was to identify and record as many species as possible in a day and to signify the avifaunal diversity found in Nagpur region. It also called for bird conservation and stressing on their role in our ecosystem. REEFians participated in three teams and performed extremely well in the race. The teams were as follows:

o **Team A – Amur Falcon:** Dr. Deepshikha Mehra, Vatsalya Mathur, Madhulika Dolke, Harjot Singh Kahai.

o **Team B – Eurasian Hobby:** Sneha Gupta, Rohit Hazare, Srushti Mehatkar, Omkar Kekre.

o **Team C – Peregrine Falcon:** Sahil Dalvi, Manas Agrawal, Rohan Dekate, Mayuri Kotian, Taneesha Godre

Team A and Team B covered Gorewada Biodiversity Park, Mihan lake, Koradi Lake and Rajbhavan. Team C covered Ambazari Lake (Seed Center and Backwaters) and Rajbhavan as well. REEFians did birding for 12 hours from 5:45 AM to 6 PM. The species count went up to 150 which also included many rare findings. Team B stood 2nd and Team A stood 3rd in the race. The bird of the day - Tickell's Leaf Warbler was also bagged by REEFians. A photograph of the rare bird was also clicked by Sneha Gupta as proof. Dr. Deepshikha Mehra, the mentor faculty of REEF, and

Sahil Dalvi were in the organizing team of the race as well. It was an outstanding experience for everyone who participated and a great achievement for the winners.

· **Water fowl census:** REEFians were approached by Birds of Vidarbha to conduct a waterfowl census which was organized by BNHS (Bombay Natural History Society) and the Forest Department. Waterfowl census implies identification and enumeration of different species spotted near water bodies. REEF members comprising of mentor faculty Dr. Deepshikha Mehra, Sneha Gupta, Manas Agrawal, Harjot Singh Kahai, Srushti Mehatkar, Omkar Kekre and Rohit Hazare conducted the census at Wena Dam and Gorewada. A good number of waterfowl species were spotted. Notable amongst them was the spotting of approximately 5000 Red Crested Pochards at Wena Dam.

· **GBBC:** The Great Back Yard Bird Count is an initiative by eBird. REEFians Sneha Gupta, Harjot Singh Kahai, Omkar Kekre, Srushti Mehatkar, Rohit Hazare, Manas Agrawal and Madhulika Dolke participated in this event on the 8th, 9th and 12th of February. On 8th February, REEFians did observations for 3.5 hours in a patch of 0.5 km and spotted 42 species around college campus. On 9th February in 2 hours of spotting 33 species and on the 12th of February for 4 hours and spotted 45 bird species.

#### Research, Publications, and presentations

· REEFians Rohan Dekate and Madhulika Dolke also published their respective articles in the Technovision 9.0 magazine of the college.

· REEF members participated and have been adjudged as the winners of Wipro Earthian 2014, an international competition for schools and colleges. The winning team comprised of the team guide and mentor faculty of REEF Dr. Deepshikha Mehra, team leader Rohan Dekate, Aaditya Somani, Manas Agrawal, Vishakha Jaiswal and Radhika Kale. The college and REEFians have been awarded a prize money of rupees 1.5 lakhs and had been invited to

Bangalore for the prize distribution and CEP (Continuing Engagement Program) interaction on 7th and 8th of February respectively. They have emerged as a winner of this international competition among with India's other premier institutions like IISc Bangalore, IIM Indore, NIT Trichy, XLRI Jamshedpur, etc.

· Madhulika Dolke delivered a presentation in her class of 2nd Year Electronics and Communication as an Environmental Studies presentation. She explained why it is necessary to have a register of flora and fauna in the campus and how REEF is contributing in recording the diversity of the college campus effectively.

a. The subtopics were –

· What is GBBC?

· Why do we count birds?

· What is a herbarium?

· Why do we need a herbarium?

· Srushti Paryavaran Mandal is a non-governmental organization working towards the betterment of environment and wildlife in Central India. They had organised a photo competition cum exhibition on 16th, 17th and 18th of January at Lokmat Building. One of the photos taken by Dr. Deepshikha Mehra during the REEF's Tadoba educational tours was short listed and displayed at the exhibition. REEF had also donated the photos they clicked to this NGO as a contribution to their objective.

· Wagh Utsav, a photography competition and exhibition was organized and sponsored by VED (Vidarbha Economic Development Council) and Madhyadakshini. The competition invited 3 photographs from all the participants. The theme of the competition was "The Splendours of Tiger Country". The exhibition dated from 20th February to 22nd February 2015 at Ravindranath Tagore Art Gallery, Nagpur. Ms. Sneha Gupta from REEF bagged 3rd prize for her photograph of the tigress Maya which she had recently clicked in REEF's educational



trip to Tadoba, and was rewarded with a Nikon camera and a One day trip to TATR (Tadoba Andhari Tiger Reserve) in this competition.

#### Community service

· REEF students continued with their regular activity of teaching underprivileged students. Other than teaching them for 3 hours every day, REEFians also undertook counseling of some of the students for them to overcome their social inhibitions and bad group behaviors.

#### Drama Club

The Drama Club of Shri Ramdeobaba College of Engineering, Nagpur was formally established in January 2015 under the mentorship of Prof. Akanksha Deshpande. The club comprises 32 members specializing in production as well. This year the club members gave their debut performance in RTM Nagpur University's Inter-Collegiate youth fest, 'Yuvarang- 2015' and bagged 2nd position in the Skit presentation competition. Drama club also made its presence felt in the theatre circle; its members Nitish Chandra, Neelabh Trivedi and Nikita Iyer were cast as lead actors in the short plays series 'Canvas' produced by theatre guru, Vikash Khurana's Stagecraft.

#### Readers' Reverie

RCOEM Readers' Reverie a college level reading club conducted 'Youth Parliament' in association with Student's Representative Council on 9th February 2015 as a part of its offline activity for all B.E students. The event replicated Parliament proceedings where students from different branches proposed various bills. Dr V.H Asudani, Head Department of Humanities was the judge. Six Branches participated in this event wherein Civil Department bagged the first prize followed by Mechanical and Electronics Department securing second and third position respectively. Dr. Asudani congratulated the students for their enthusiastic participation and promised many more such activities in the future.

#### Other Activities

· Ath Tiwari, a national level orator and a student of 4th semester, Mechanical Engineering Department brought glory to the institution by winning one more major national level inter-collegiate debating competition organized by the Lokmat Yuvamanch Yuvanext of Lokmat Group. Ath Tiwari was awarded a trophy and a cash prize of Rs10, 000. He was guided and motivated by Dr.V.H.Asudani, Head, Department of Humanities and Prof.Pratishruti Singh, Department of Humanities.

Utkarsh rathi and Ath Tiwari, national level orators and students of 4th semester Industrial and Mechanical branch won the prestigious debate organized by Hindi Department, Morris College, Nagpur. They were guided and motivated by Dr.V.H.Asudani, Head, Department of Humanities and Prof.Pratishruti Singh, Department of Humanities.

## PHYSICAL EDUCATION

#### FACULTY CORNER:

· Dr. S Dogra presented paper on "Mahatma Gandhi and Women's Empowerment" in UGC sponsored two-day international conference on "Significance of Mahatma Gandhi's Methodology in 21st Century" on 30th and 31st January 2015. It was organized by Gandhi Study Centre, New Art's Commerce & Science College, Nalwadi, Wardha (M.S.). The paper was also published in the souvenir with ISBN NO.: 978-81-909640-7-4, pp.no. 79-81.

· Dr. S Dogra attended a one day state level seminar for "Designing Syllabus of Physical Education and Workload" on 23rd March 2015 in PGTD of Physical Education R. T. M. Nagpur University, Nagpur.

· Dr. Amit Anurag's paper entitled "Effect of Continuous and Alternate Pace Endurance on Selected Physical and Physiological Variables of Long Distance Runners" was published in Contemporary Research in India- A Peer reviewed Multi-Disciplinary International Journal, 04/4, ISSN: 2231-2137.

· Dr. Amit Anurag presented the paper entitle "Nature Cure: Naturopathic Medicine and Athletes" in UGC-Sponsored two-days International Conference on Significance of Mahatma Gandhi's Methodology in 21st Century, 30-31 Jan 2015, organized by Gandhi Study Centre, New Arts Commerce and Science College, Malwadi, Wardha (M.S) and the same was published in the proceeding with ISBN NO.: 978-81-909640-7-4

· Dr. Amit Anurag's paper entitled "Comparative study of Spinal Mobility between National Level Gymnast and Malkhamb Players" in Velocity International Journal of Physical Education, Sport, Health and Education, ISSN NO: 2348-9057, Volume 2, Issue 1.

· Dr. Amit Anurag was awarded for the contribution in Physical education and Sports at the Annual Felicitation program for different achievements and contribution in Sports Field organized by KHEL-KHILADI-KHEL at VHA, Nagpur on 29th March 2015.



## STUDENTS ACCOMPLISHMENTS



- College Football team secured 3rd position in Boys category in R.T.M Nagpur University level Football tournament from 22nd to 26th Feb 2015.
- Mr. Yash Asutkar (EN III) secured 3rd position in R.T.M Nagpur University Intercollegiate shooting tournament.
- Mr. Anmol Meshram (EC IV) secured 3rd position in

R.T.M Nagpur University Intercollegiate Best Physique Competition.

- Final List of Interuniversity (Color Holders) Players 14-15:

16 players from the college represented Nagpur University for different games in west Zone/ All India University Meet in the year 2014-15.

Sr. No	Name of Player	Branch & Year	Game	Level of Participation
1.	Shrutika Prachand	EN III	Chess	West Zone
2.	Vaishnavi Anand	MBA II	Badminton	West Zone
3.	Suvidha Maheshwari	CS III	Table- Tennis	West Zone
4.	Gauri Khapekar	EN IV	Table-Tennis	West Zone
5.	Chaitanya Rajan	MAM II	Table- Tennis	West Zone
6.	Krupal Lambat	EC II	Swimming	All India Uni
7.	Mayur Hulke	EN IV	Swimming	West Zone
8.	K. S. S. Govind	CS III	Basketball	West Zone
9.	Nikunj Chandak	MEC II	Basketball	
10.	Vihang Tapas	IND II	Basketball	
11.	Nidhi Agrawal	I Year	Basketball	West Zone
12.	Antra Mehta	I Year	Basketball	
13.	Anushree Mishra	EC III	Basketball	
14.	Resham Shrivastava	CS II	Basketball	
15.	Madhuilika Dholke	EC II	Basketball	
16.	Yash Asutkar	EN III	Shooting	

## BEYOND ACADEMICS

- Ms. Antra Mehta (B.E. First Year): Basketball Represented Maharashtra in 35th National Games at Kerala from 31st Jan to 14th Feb.
- Mr. Krupal Lambat (EC II) represented R.T.M Nagpur University SWIMMING (men) Team in ALL INDIA (MEN) Open Sea Swimming Championship held on 23th Jan 2015 at Mumbai.

- The Dept organized the Annual Athletic Meet 2014-15 on 16th and 17th Jan 2015. All the students and staff members enthusiastically participated in the event. The opening ceremony graced by Dr. Anil Karwande Principal IDCPE, Nagpur and Principal R. S. Pande.

	Best Athlete 2014-15	Men/Women	Branch & Year
Students	Saurabh Malve	Men	EN IV
	Sheena Thomas	Women	EN II
Staff	Prof. P.V. Chavhan	Men	EN
	Dr. Sunita Dhote	Women	MBA

Intra-Mural activities the Physical Education department organizes inter-branch tournaments known as Sports Cup throughout the session. The following was the results:

### Final Position of Inter- Branch Tournaments 2014-15

Sr.n	Games	MEN			WOMEN		
		Winner	Runner- Up	III Place	Winner	Runner- up	III Place
1.	Chess	CS	EC	EP	EC	EN	CIVIL
2.	Table Tennis		CIVIL	EDT	EN	CS	ENEC
3.	Badminton		EC	EN	EDT	EC	ENMBA
4.	Tag-Rugby		CS	MECH	EN	-	--
5.	Volleyball		EN	EC	MECH	EN	ECIT
6.	Football	EN	MECH	CS	-	-	-
7.	Cricket	EN	CIVIL	CS	MCA	CS	EDT
8.	Basketball		IND	CS	EN	CS	ECIT
9.	Athletics	EN	EP	MBA	EN	CIVIL	EC
10.	Throw ball		-	-	-	EN	CSEC



**Sports Cup Overall-Championship 2014-15**

Sr no	Trophies	Men/Women	Winner
1	Sports Cup	Men	EN
2	Sports Cup	Women	EN
3	Fair-Play award	-	EP

Sr no	Best sportsperson of Year 2014-15	Men/Women	Branch & Year
1	K. S. S Govind	Men	CS III
2	Vashnavi Anand	Women	MAM II

NSS

- Youth week were organized from 12th to 18th January in collaboration with Vivekanand group.
- NSS Unit of RCOEM organized Republic day program on 26th Jan 2015
- From 27th to 30th Jan 2015 the mega social intercollegiate event of NSS Prerna -7.0 shades of India were organized by NSS Unit. On 1st day the opening ceremony were marked with the presence of Mr. Varun shrivastava as the chief guest of the programme and Principal Dr. R.S Pande. The first round of Orater of the year also started on the same day. On second day quacker, brain teaser was organized. 3rd day were marked by blood donation camp in collaboration with Hedgaewar blood bank. On the last day a cleanliness drive and health checkup camp were organized in pawangaon village which is around 25 km away from the college.

POST GRADUATE PROGRAMME

DEPARTMENT OF MANAGEMENT TECHNOLOGY

FACULTY CORNER:

- Dr. Neeta V. Shah, Head DMT chaired a session in International Conference on Evidence Based Management, (ICEBM), organized by Department of Management, Birla Institute of Technology, at Pilani campus, held on 20th and 21st March 2015.
- The following faculty members were awarded Ph.D:
  - o Dr. Abhijeet Agashe was awarded in "Formulation of a 'Fieldbased Data Model for Functioning of a Work station of Flour Grinding System Emphasizing Ergonomic Considerations and optimization" (Engineering).
  - o Prof. Prashant Chhajer was awarded in "Study of Long Term Investment Plan of Selected Businessmen, Professionals and Senior Executives in the city of Nagpur, with Special reference to NPS" (Management).
  - o Prof. Ruchi Sao was awarded in "An Empirical Study of Work Life Balance of Married Working Women in Nagpur Region" (Management).
- Dr. Kanchan Naidu's following papers were published:
  - o "Case study on 'Scaling Through Scarcity" was published in International journal of logistics & supply chain management perspectives (ISSN: 2319-9032 (PRINT) ISSN: 2319-9040 (ONLINE); IF-2012: 3.562, IF-2013: 5.074)
  - o "A study of Tricks and Traps of Scarcity Marketing to Trigger Impulse Purchases" was published in International Journal of Financial Footprints (ISSN 2319-6262, Vol. 3 and No. 2. March, 2015 issue)
  - o "An analytical study of the performance of oscillators for index futures" was published in SCMS Journal of Indian Management , Peer Reviewed in the

Vol. XII, Number I, (January – March, 2015)

· The following papers were presented in a UGC sponsored One day National Conference on "Issues, Challenges and Innovations in Management" organized by G S College, Nagpur on 10th March 2015:

o Dr. Kanchan Naidu and Dr. Anil Sarda presented "Study of SCORES: An innovative mechanism of SEBI for protecting Investor's Interest"

o Dr. Kanchan Naidu and Prof. Vandana Gandhi presented "Analytical study of relationship between crude oil prices and companies profit".

· Dr. Sunita Dhote presented "Productivity Analysis of National Bank for Agriculture and Rural Development (NABARD)- 2009-10 to 2013-14" in a UGC sponsored One day National Conference on "Dynamics of Indian Banking Sector: Emerging Trends, Challenges & Opportunities" organized by G S College of Commerce and Economics, Nagpur on 24th February 2015

· Dr. Ruchi Sao's paper entitled "Study On Factors Causing Workplace Ostracism In Management Colleges At Nagpur" was published in NOVUS Journal Bearing, ISSN No. 2277-2170 Volume 4, 2015.

· Dr. Gayathri Band and Dr. Neeta V Shah presented a paper entitled "Study of Consumer Buying Behaviour With Respect To Tea In Nagpur and Wardha Region" in the International Conference on Evidence Based Management, (ICEBM), organized by Department of Management, Birla Institute of Technology, at Pilani campus, held on 20th and 21st March 2015.

· Dr. Gayathri Band presented a paper entitled "Study of Financial Performance Pre And Post Merger of HDFC Bank and Centurion Bank of Punjab" in the National Seminar organized by NIT Graduate School of Management and Department of Business Management, RTM Nagpur University on 31st January 2015. It was also published in IGNITE 2015 (ISSN 2394-269X, Vol 1, No.1, Jan-2015)

· Dr. Gayathri Band presented a paper entitled "Rural



Development and Banking: Perspective into Schemes for Development" in a UGC sponsored One day National Conference on "Dynamics of Indian Banking Sector: Emerging Trends, Challenges & Opportunities" organized by G S College of Commerce and Economics, Nagpur on 24th February 2015.

· Dr. Sunita Dhote and Dr. Manish Shah presented a paper entitled "Critical Study of interest rate risk and liquidity risk management of selected public and private sector bank" in the National Seminar organized by NIT Graduate School of Management and Department of Business Management, RTM Nagpur University on 31st January 2015 which was also published in IGNITE 2015 (ISSN 2394-269X, Vol 1, No.1, Jan-2015)

· Dr. Prashant Chhajer, Prof. Vandana Gandhi and Prof. Vishal Mehta presented the following papers at International Conference on Evidence Based Management, (ICEBM), organized by Department of Management, Birla Institute of Technology, at Pilani campus, held on 20th and 21st March 2015:

o "A Comparative study of Returns Generated by Nifty, Mutual Fund and Gold ETF's with Target Rate for a Given Horizon Period" in the

o "A Study of Market Efficiency in Commodity Spot and Future Indices in India" in the International Conference on Evidence Based Management, (ICEBM)

· Prof. Tinu Agrawal, Prof. Pritam Bhadade, and Prof. Shraavan Chandak attended UGC sponsored 3 days Workshop on Research Methodology organized by IMT, Nagpur from 23rd to 25th March 2015.

#### STUDENTS' ACCOMPLISHMENTS

· The following papers were presented in International Conference on Technology and Business Management, hosted by AIMS International at Al Ghurair University, Dubai, UAE from 23rd to 25th March 2015. These papers were also published in the conference proceedings:

o Jayesh Goyal, Dr. Kanchan Naidu and Dr. Neeta V Shah presented "Study of Faculty turnover in Engineering Educational Institutes in India"

o Devang Kusumgar, Dr. Kanchan Naidu, and Dr. Neeta V Shah presented "Study of Corporate Social Responsibility with Special Reference to Selected Indian Automobile Industry".

o Shirin Chimantanwala, Dr. Kanchan Naidu and Dr. Neeta V Shah presented "Development and Growth of Women Entrepreneurship in India".

o Deepika Chhajer, Dr. Kanchan Naidu, and Dr. Neeta V Shah presented "Study of Impact of Celebrity Endorsements on Consumer Buying Behaviour"

#### CAPACITY BUILDING ACTIVITIES

##### 'SAMVAAD-2015'

The Department organized 'SAMVAAD-2015' to discuss avenues to strengthen symbiotic relations and to have a meaningful interaction between industry and academia. The event was conducted on 27th March 2015. Twenty-nine industry professionals participated. The delegates attended the meet where from L&T, WCL, Reliance Cement, OCW, PIX Transmission, Zim Laboratories, Star Circlips, Bindal Packaging, Visaka Industries, Anancon Labs etc. During the Meet the panelist discussed about improving the relations amongst industry and institute.

#### BEYOND ACADEMICS

##### "Jashn"-Let's live it together at DMT

The Department organized a one-day event "Jashn" on 10th January 2015 which included a drawing competition and cultural program. Orphans and differently abled children participated in this event. Around 100 children participated in the morning for

drawing competition organized at DMT. The children were divided in three age groups. Group I painted their imagination on the topic 'Environment', Group II painted their dreams of becoming lawyers, professionals, astronauts etc. under the topic 'My Dreams' whereas Group III touched upon social issues of female infanticide, dowry, environment pollution, road safety and many more in the topic 'Social Problems' given as themes for drawing. Mr. Ashok Kalkar and Mrs. Neha Munje were the judges for the drawing competition who faced a tough task in deciding the winners. Prizes were distributed to winners of all the three groups separately. The drawing competition was followed by a cultural program which was organized in the evening at Gurunanak Sabhagruh where children performed dances and also sang various songs. Children from Blind association were the center of attraction and they received standing ovation from the audience for their extremely well-coordinated performance. The Gurunanak Sabhagruh was packed with audience. The children from Roshan Balsadan, Sarojini Chari Memorial Children's Home, Home for Age and Handicapped Snehasadan, Shri Shraddhanand Anathalaya, Yuva Jyoti, Kamaltai Balsadan, Shrikisan Mukh-Badhir Sanstha and Rashtriya Drushtihin Punarvasan Sanstha participated with utmost enthusiasm. All the children were provided with pick up and drop transportation facility, breakfast, tea, lunch, snacks, chocolates, dinner and complementary gifts by DMT. Certificates of participation were given to all participants.

Dr. Vinayak Deshpande, Honorable Vice-Chancellor, RTM Nagpur University was the chief guest. In his address he appreciated the students of RCOEM for their closeness to society and their efforts for bringing happiness to the lives of the specially-abled children. Shri Banwarilal Purohit, Chairman, RCOEM, Shri Govindlal Agrawal, General Secretary, RCOEM, and Dr. R. S. Pande, Principal, RCOEM graced the function with their presence and encouraged all the participants with their kind words of motivation. Shri Banwarilal

Purohit congratulated DMT for giving a message of simple living and high thinking by organizing an event for specially-abled children. Dr. Neeta V Shah, Head, DMT presented the opening remarks. She emphasized on the joy of sharing. Mr. Mantra Mangesh and Mr. Chetan Deshmukh were the esteemed judges for the cultural program. The first prize winner of cultural program was Shrikisan Mukh-Badhir Sanstha and the second prize was won by the Home for Age and Handicapped Snehasadan. Ms. Shirin Chimthawala, Mr. Abhijeet Paunekar and Mr. Yash Kapoor, students of DMT anchored the program. Prof. Prashant Chhajer, Faculty in-charge, DMT forum proposed the vote of thanks. Mr. Akash Kundra, President, DMT-Forum and his team coordinated event "Jashn – Let's live it together" under the guidance of Prof. Prashant Chhajer, Dr. Gayathri Band, Prof. Vandana Gandhi and Prof. Vishal Mehta. All the Faculty members of DMT extended their whole hearted support to make this event a success.



## DEPARTMENT OF COMPUTER APPLICATIONS

### FACULTY CORNER

· The following paper were published in International Journal for Engineering Applications and Technology (IJFEAT), February 2015, ISSN: 2321-8134:

o Prof. Pranali R Dandekar's paper entitled "Introduction to Forensic Email Miner Analyze"

o Prof. Deepali O. Bhende's paper entitled "Trends in protection of IPR in computer software".

· Prof. Anand Padwalkar's paper entitled "Designing an Application for Recovery of Data in Cloud Environment: A problem definition" in International Journal of Advance Research in Computer Science and Management Studies. (IJARCSMS), February 2015, with ISSN 2321-7782, ISSN (Print) 2347-1778, Vol. No. 03, Issue No. 2 pp 291-293

· The following papers were presented in 4th National Conference PANACEA-2015 at Department of Management, Datta Meghe Institute of Engineering Technology and Research, Salod (Hirapur) Wardha on 24th March 2015:

o Prof. Pravin Karmore presented two papers - "Issues and Challenges in cloud computing paradigm" and "The Unique Challenges of Test Automation of Embedded systems"

o Prof. Satyajit Uparkra presented "Capacity Planning for the Big data Project"

o Prof. Satyajit Uparkra and Prof. Lalit Agrawal presented "Allocation of Transcoding Resources in a Digital Library Environment".

o Prof. Lalit Agrawal and Prof. Satyajit Uparkar presented "Stream Processing for Big Data- A Survey".

o Prof. Aprana Gurjar and Prof. Rupa Patel presented "Extractive & Abstractive Text summarization a

contrasting approach towards creating text summaries".

o Prof. Anand Padwalkar presented "Study & Analysis of Recovery of data in cloud environment: A Survey".

o Prof. Prajakta Pande presented "A review of sip methodology for communication over mobile".

· Prof. Anand Padwalkar presented a paper entitled "Designing an Application for Recovery of Data in Cloud environment: A Literature Review" in 2nd National Conference Innovations in IT and Management (NCI2TM-15) at Sinhgad Institute of Management & Computer Application, Pune on dated 27th – 28th February 2015.

· Prof. Deepali Bhende presented a paper entitled "Trends in protection of IPR in computer software" in National Conference on Research in Cloud and Cyber Security, NCRCCS – 2015 at Department of Computer Science, RCOEM, Nagpur on 21st February 2015.

· Prof. Punam Khandar presented a paper entitled "An Approach to Recommender – Based Audio Query for Optimized Result" in 3rd National Conference on Recent Trends in Information Security at G. H. Rasoni College of Engineering, Nagpur on 30th and 31st January 2015.

· Prof. A. Thakare and Prof. V. Vardhan were invited to review the Online Educational Software "PEER BUDS" on 18th January 2015 at KloudData, MIHAN, Nagpur.

· Prof. Sachin Upadhye presented a paper entitled "Software Multi Mobile Agent System (SMMAS) for Combinatorial Auction using DPHE" in National Conference on Advanced Research Trends in Sciences NCARTS-15 at G. H. Rasoni College of Engineering, Nagpur on dated 2nd-3rd January 2015.

### CAPACITY BUILDING ACTIVITIES

Industrial Visit to RTTC, BSNL, Nagpur

· The Department of Computer Application organized a local industrial visit to RTTC-BSNL, Nagpur, on 28th March 2015. Ninety-nine students of MCA IV Semester visited the Regional Telecom Training Center of BSNL. They visited five parallel laboratories based on SWG, Broadband, Optical Fiber Cable, AC Plant and Battery Power Plant, where overall telecom communication infrastructure was discussed. A special visit to BTS section was also conducted where functioning of GSM-BTS and MSC was discussed. The visit was coordinated under the guidance of Prof. Shruti Rakhunde, Prof. Anand Padwalkar and Prof. Aparna Gurjar.

### "Golden Dreams" – An ED Cell Initiative

Department of Computer Application and Information Technology organized "Golden Dreams" – An ED Cell Initiative for the students who are interested to opt for entrepreneurship. The event was held on 27th March 2015 in IT department. The event was inaugurated by Chief Guest Mr. Mukesh Ashar and Dr. D. S. Adane, Head, Department of Computer Application. The faculties from both the departments were present at the occasion. Mr. Mukesh Ashar from Lemon Ideas was accompanied with a team of three members. Manish Upadhyay, Snehil Maheshwar and Kshitij Kolhe. Mr. Mukesh Ashar started the session. He explained how small ideas can be a reason to become a successful entrepreneur. He started from what is an entrepreneur and covered the qualities required to become an entrepreneur. He discussed about the journey of an entrepreneur from inception to success. Mr. Ashar's session was very helpful to the students also he motivated students by showing an inspirational video at the end.

Parent Teacher Meet on 14th March 2015

The Parent Teacher Meet was organized by the

Department which the academic performance of the students was discussed with the Parents. They were given handouts that highlighted the achievements of the students and the staff and the activities organized by the Department. Dr. D. S. Adane, Head of the Department met all the parents and took their feedback and suggestions for overall improvement. Parents appreciated the faculty members of the concerned subjects for their teaching efforts and guidance provided to their ward and expressed complete satisfaction about the department.

Poster Presentation on Wireless Communication and Network Security

The Department organized a Poster Presentation event for MCA II year students on 14th March 2015. The topics covered in the event were based on various areas of Mobile computing, Wireless Communication, Network Security and Data Mining. Students from MCA II year both shifts, prepared the posters on various topics like Wireless Applications, Cellular Concepts, GSM architecture, Cloud Computing and Network Security. Dr. M. B. Chandak, Head CSE and Dr. S. B. Pokle, Head EC, along with Dr. D. S. Adane, Head of Department of Computer Application appreciated the hard work of the students. Various faculties from CSE and IT Department also visited this event and gave valuable suggestion to the students. Prof. Shruti Rakhunde and Prof. Anand Padwalkar coordinated the event.

### STUDENTS' ACCOMPLISHMENTS

· Internship Recruitment For Student's

Total 138 final year students of department of computer application were placed in various software companies for internship, out of these 10 percent of students have already received the confirmation of placement from these companies namely L&T Infotech, SMARTDATA, Kratin Software Solution Pvt. Ltd., Auckland Systems Pvt. Ltd.



Reshma Poduwal, Komal Madan and Revati Khare of MCA II Yr. Shift II students won the Third Prize in National Level Project Competition, Techno Kiran 2015, at Radhikatai Pandav College of Engineering, Nagpur, getting Rs. 7000 as cash prize.

· Parithosh Yadav of MCA I Yr. Shift I student won First Prize in Project Competition in National Level Technical Symposium, PRAYUKTI-2015 at Vilasrao Deshmukh College of Engg and Technology, Nagpur.

· MCA Department Girls' cricket team won first prize in Branch cup Cricket of PRATISHRUTI-14. Rupali Charpe, Ekta Kalamkar, Diksha Paunikar, Mamta Yadav, Nikita Chawan, Swati Mishra, Shrutika Tembhurne, Chetna Chambhare and Ashwini More were the team players.

## DEPARTMENT OF T AND P

The following companies came for Campus Interview process:

Date	Name of Company	Result/ Status
26/2/2015	Amdocs	Result awaited
18/2/2015	Idea Cellular Ltd	3 Selected, 3 waitlisted
21/2/2015	Sunflag Iron & Steel Co	7 Selected
14/3/2015	Windworld	Result awaited
5/2/2015	Hasan Juma Baker, Oman	2 selected
27/2/2015	Diffusion Engineers Ltd	Final Interviews awaited
07/01/2015	Excellon Software Ltd.	Final Interviews awaited

### Project Selection Drive

Date	Name of Company	Status
26-27 March 2015	Infocept Pvt. Ltd.	Confirmed

Other activities conducted

· The Dept helped in getting sponsorship from various organizations for the Technovision 9.0 organized on 11th and 12th Feb 2015. Thu, Persistent gave Rs. 50,000, BSNL gave Rs. 10,000, and WCL provided Rs. 10,000.

· It also helped in getting Shri Rajiv Ranjan Mishra, Chairman-cum-Managing Director of WCL as the Chief Guest for the Technovision 9.0 and Mr Jain an alumnus and CEO Mahagun Developers as Chief Guest for Pratishruti event.

· It conducted various competitive exams like DGMS, DRDO, and NID at the college with significant revenue generation for the college.

· It facilitated training of students selected by ITC Infotech Ltd.

· It facilitated campus Connect Foundation Programme of the students selected by Infosys

· It conducted a seminar on 'Career in Indian Airforce' by Command Education officer Air force Maintenance Command Nagpur, March 2015.



## BEYOND ACADEMICS

## ALUMNI ASSOCIATION

## Visit of RCOEM Alumni

An Alumnus from 2008 batch (Electronics Engineering), Mr. Swachhand Chavan, Assistant Commissioner, currently serving Indian Revenue services (IRS), visited Electronics Engineering Department on 26th February 2015. He was greeted at the department by Dr.A.A Khurshid, HoD, EN, and Mrs. Mridula Korde, Secretary, Alumni Association, RCOEM. Mr. Chavan interacted with 3rd year students and gave his valuable guidance for various UPSC examinations including, IAS (Indian Administrative Service), Engineering Services Examination, and other posts and career options available with government sector. Mr. Chavan took questions from students regarding career options/ UPSC preparation and guided them for further self-help.

## RCOEM Library

A book exhibition was organized by Central Library Department on 14th and 15th January 2015 in RCOEM. The exhibition was inaugurated by Dr. R. S. Pande, Principal RCOEM.

Prof. S. V. Joshi, Chairman Library Committee and other committee members were also present. Publishers like M/s Venus Book Center, Book World, Allied Publishers, AGB Publishing and Prime Book Shop participated in the exhibition.

**TEMPLE NEWS**

The following programmes were held by the Ramdeobaba Temple committee in the first quarter of 2015:

PROGRAMME	DATE
New Year Celebration	1/1/2015
Visit: Shri Shiv Prasad, Indian Institute of Science, Bangalore	17/1/2015
Badi Duj, Magh Mela: Abhishek, New Poshak & Jamma Jagran by Shri Umesh Sharma	21/1/2015
Prasadi by Shri. Manoj Sharma	22/1/2015
Viram Deoji Birthday, Basant Panchami celebrated	24/1/2015
Dashami Badi: Bhajan Sandhya by Ramdev Kirtan Sangam	29/1/2015
Visit: Shri Naresh Kumar, C Engg CPWD	7/2/2015
Visit: Shri Rajiv Ranjan Misra, Chairman cum MD, WCL	11/2/2015
Mahashivratri: Bhakti Sangeet by RCOEM Music Group	17/2/2015
Duj: Celebrated, Jamma Jagran by Dinesh Sharma	20/2/2015
Holi Dahan	5/3/2015
Duj and Gudi Padwa Celebrated	21/3/2015
Gangaur puja by Mahila Mandali	22/3/2015
Ram Navmi : Ram Janam Celebrated	28/3/2015
Every Saturday : Sunderkand	









