

## SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT, NAGPUR

Ramdeobaba Tekadi, Gittikhadan, Nagpur - 440013  
Phone : 0712-22580011, Website : <http://rknec.edu>

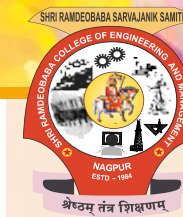


Shri Ramdeobaba Temple on Campus

# REFLECTION NEWSLETTER

of  
**SHRI RAMDEOBABA COLLEGE OF  
ENGINEERING AND MANAGEMENT**

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## LETTER FROM THE EDITOR

*Dear Readers,*

January to March 2016 was a quarter that had many publications, conference presentations, workshops conducted and attended, and many other extra-curricular achievements, which are enumerated in this issue of REFLECTION.

The highlight of the quarter was the activities that helped enhance the spiritual quotient of the students along with working on their technical and cultural capacities. The quarter saw organization of national and international conferences along with the organization of the mega event Ram Katha. Pratishruti, the annual cultural event was also conducted during this quarter. Many other capacity building workshops, activities to conserve environment, internships, etc also ensured a dynamic quarter.

I hope this issue of REFLECTION is an interesting read for you all

Enjoy reading.

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

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# Ram Katha

Shri Ramdeobaba Sarvajanic Samiti organized Ram Katha from 11 to 18th January 2016 in the premises of Shri Ramdeobaba College of Engineering and Management. It marked a large gathering of devotees from all over the region. The devotees had the honour of hearing the narration of the katha from Hon' Shri Vijay Kaushalji Maharaj (Vrindavan). Shri Vijay Kaushalji Maharaj is world renowned religious leader and orator whose discourses on the life and living of Shri Ram and Shri Hanuman as well as his knowledge of the Hindu scriptures is extensive and indepth. As a precursor to the event a press conference was organized by the team of the Ram Katha.

2016 is a historic year as the Ram Janam Shobha Yatra celebrates its golden jubilee this year. It is in this auspicious year that Ram Katha was organized. The bhoomipujan was done on 3rd January 2016. The Dwajaroohan and Vyaspeeth poojan was carried out on 9th January 2016 by Mahant Mahesh Giriji Maharaj.

The event was organized on a large scale. Transportation was arranged for the devotees from various parts of Nagpur city. Many free buses plyed for the devotees from specific routes. For senior citizens various provisions were made like availability of wheel chairs and medical aid at the premises of the Katha. Many committees were formed for the smooth conduction of the event.

The Vyaspeeth or the dias from where Shri Kaushalji Maharaj gave the discourse was decorated by Shri Sharad Ingle, the famous artist of Nagpur city along with his team. The event will be compered by Shri Umashakar Agarwal and Shri Ramesh Rajoriya.

## MOMENTOUS EVENTS



## PRATISHRUTI 2016

Annual cultural festival of RCOEM, PRATISHRUTI, was inaugurated in the college premises on 3rd March 2016 by Chief Guest Padma Bhushan Captain M S Kohli. The event was presided over by the Chairman Shri Banwarilal Purohit. The dais was shared by General Secretary Shri Govindlal Agarwal; Treasurer - Shri Ashokkumar Pachariwala; Principal - Dr. R. S. Pande; Dean - S. R. C. Prof. S. H. Deshmukh; Professor In-charge of Pratishruti - Mr. Gaurav Goyal, and Cultural Secretary - Mr. Siddharth Kohli.

The program began with lighting of the traditional lamp and presentation of a brief overview by Siddharth Kohli of various events and workshops conducted in PRATISHRUTI 2015. Dean SRC introduced the chief guest and spoke about various achievements. Principal Dr. R. S. Pande in his opening remark presented a report on the achievements and activities of the academic session 2015-16. He further emphasised on achieving quality in education, research, consultancy and innovation. He also stressed about the ever increasing placements of RCOEM, which has seen a jump of 41 percent in 2015-16. Chief Guest Padma Bhushan Captain M. S. Kohli in his speech explained about leadership qualities like ones knowledge bank, planning ability and the final execution. He also added that along with the combination of physical strength and mental endurance, faith will always take your achievements to a higher level. In his presidential address, Shri Banwarilal Purohit advised the students to make M. S. Kohli as their role model and achieve higher goals by keeping their simplicity and character intact. He also motivated the students to stay focused and keep the cultural strength of India united. Teacher in-charge of Pratishruti, proposed the vote of thanks and appreciated the efforts of the entire staff and students. Anurima Chakraborty and Ankush Sharma compered the event. The following days witnessed the final rounds of exciting events like Footsteps, Beat-Makers and Persona. The fest concluded with cultural night on 5th March 2016.



## MANAGEMENT INTERNATIONAL CONFERENCE

# MICON 2016

The Department of Management Technology organized 'MICON 2016', an international conference on 7th, 8th and 9th January 2016. The conference was organized in association with The Newcastle Business School, London Northumbria University, U.K and the National Institute of Personnel Management (NIPM). Based on the theme 'The Strategies in the present scenario for managing growth and competitiveness' the conference offered a platform for the brainstorming and exchange of ideas that would enable companies to drive growth and become globally competitive. A Pre Conference School was organized at DMT, RCOEM on 7th January 2016 as a pre cursor to the International Conference, MICON 2016, to be hosted on 8th and 9th January 2016.

The pre conference school comprised of exciting events such as a poster competition for students on the theme, 'Sustainable Development'. The event was inaugurated at the hands of Principal, RCOEM Dr. R. S. Pande. Around 20 teams of 3 members each enthusiastically participated in the competition. The posters displayed the creativity of the students who had depicted various themes for sustainable development such as bio-mimicry, bio fuel, and paperless health administration and also depicted the innovative practices followed by industries like Infosys in efficient use of energy. The second place was shared by Priyanka Paunikar of Raison College. The event was coordinated by Prof. Amir Khan.

A workshop on lean manufacturing was another interesting feature of the Pre Conference School. The workshop consisted of two sessions. The first session, 'Lean Manufacturing: Implementation and Benefits' was conducted by Mr. Sanjay Kulkarni, General Manager, TAL Manufacturing Solutions Limited, Nagpur and an expert in the area of lean manufacturing. The Second session was on 'Lean Manufacturing: Competitiveness' was conducted by Dr. Rupesh Pais, Associate Professor, DMT, RCOEM. The focus of the workshop was on methods of enhancing efficiency of MSMEs through application of

lean manufacturing concepts. Around 50 members from various industries participated in the workshop which was also attended by the students and the faculty members of DMT.

'MICON 2016', was inaugurated on 8th January 2016 by the chief guest Dr. Shankar Tatwawadi, Former Professor, Banaras Hindu University and Chief Advisor (international) Vijnana Bharti. The inaugural session began with the lighting of the traditional lamp by the dignitaries. The Head-Department of Management Technology, Dr. Neeta V. Shah presented the opening remarks and welcomed all the guests present. Sebastian Verra from Italy, Sydney Caplinger and Ellis Gillham from USA, Louis Fellmann from France, Guilherme Ferreira from Germany were the foreign student delegates who attended MICON 2016. Mr. Vikas Sharma Northumbria University, New Castle graced the occasion with their presence.

Chairman, National Institute of Personnel Management, Nagpur Chapter, Mr. Pradeep Zoting also graced the occasion and praised the efforts saying that the conference is a platform for showcasing innovation in respective sectors. Dr. R. S. Pande, Principal, RCOEM, guided the students, by making them aware that the world is driven by two dominant forces; technology and business. The Guest of Honour, G.P. Kundarji, CMD, MOIL Ltd. preached that the key to survival is being the BEST, elaborating on the true meaning of the word. B - behavioural approach, E - economic measures, S - Strategy, T - technological aspects. The Chief Guest for the event was Dr. Shankar V. Tatwawadi, former Professor, Banaras Hindu University concluded by saying that cooperation and teamwork are the two ma

The Vote of Thanks was delivered by Dr. Chandan Vichoray, Organizing Secretary, MICON 2016. He expressed his gratitude towards all esteemed guests, delegates, organizing team, sponsors students and faculty members.

The inaugural function was followed by 'InnoQuest', an innovation competition aimed at recognizing innovative practices by the industry in Product, Process, Service, System, Management, Supply Chain, Engineering, Logistics or any other area was held at DMT, RCOEM as a part of their ongoing International Conference MICON 2016. This competition was open for industries in Nagpur to share their innovative approaches in solving issues in various area of the industry with a purpose to increase productivity, reduce costs or increase overall efficiency. To qualify for the competition, the participating teams must demonstrate improved business results due to the introduction of innovative practices.

InnoQuest received overwhelming response from different industries like WCL, MOIL, Mahindra & Mahindra Ltd., TAL Manufacturing solutions Ltd., Ashok Leyland, Raymond's Ltd., Infocepts, and OCW. 16 groups participated in the event and presented their innovative practices. The event, which was held in two parallel sessions, was judged by Dr. Vinod Varghese from Reliance Industries, Mr. Ajay Jalan from JSW Ispat along with the panel from Academia comprising of Dr. Ishwar Keshwani and Dr. Rupesh Pais from RCOEM. Dr. V. S. Deshpande, Chairman, IIE, Nagpur Chapter lauded the efforts of the department and provided his valuable guidance and support in organizing the event.

The first and second prizes were won by two groups each as the competition was tough. Two groups from Mahindra & Mahindra Ltd. won the first prizes. The second prizes were won by MOIL team and the team from Raymond's Ltd. The prizes were given away by Dr. Vinod Padmanabhan, Works Director, Raymond's Ltd and Mr. Vikas Sharma representing Northumbria University, New Castle. Prof. Anant Deogaonkar, coordinator, 'InnoQuest' proposed a vote of thanks.

Two plenary sessions were organised on 9th of January. Mr. Sameer Kolte, Associate Director, KPMG, was speaker of first plenary session and second plenary session was

engaged by Dr. Hemant Trivedi, Former Director, PDPUSPM. Prof. Shravan Chandak, Prof. Samiksha Jain and Prof. Kimsy Gulhane was incharge of the plenary session. The plenary session was compered by Miss. Shirin Chimthanwala. The panel discussion was organised after the plenary session. Dr. Vinayak Deshpande, Director, DBM, Ex Vice-Chancellor, RTMNU, Mridul Chakravorty, HR-Head, TCS and Ninad Nandgaonkar, CA were among the panelist, who discussed on the theme of 'The Strategies in the present scenario for managing growth and competitiveness'. Dr. Abhijeet Agashe was the moderator and Dr. Swarnalata Philip was the coordinator of the panel discussion which was anchored by Miss. Rashmi Naidu.

The conference ended with the valedictory function. Chairman, National Institute of Personnel Management, Nagpur Chapter, Mr. Pradeep Zoting was the chief guest of the valedictory function. Dr. (Mrs.) Neeta V. Shah, Head-DMT, summarised the 3 day conference. Vice Chairman, NIPM, Mr. Vivek Nagbhirey, Honorary Secretary, NIPM, Suhas Birewar and Advisor, NIPM, Prof. S. D. Bhave were felicitated in the valedictory. Delegates and participant expressed their views and they were very happy the hospitality and deliberations of the conference. The valedictory function was compered by Dr. Gayathri Band. She also proposed the vote of thanks. Press and Media was handled by Prof. Pritam Bhadade and Dr. Swarnalata Philip.

The conference has received overwhelming response from both academia and corporate. People like Dr. G China Babu, SAP-Lead Consultant, Hyderabad, Mr. V K Khare, General Manager, Powergrid Corporation of India, Mr. Hemant Pande, Chief Manager (Mining), Gevra Area, South eastern Coalfields Limited also participated and presented their papers in the conference.

Shri Vinod Padmanabhan, Works director, Raymond's and Shri Dipankar Shom, Executive Director, MOIL Ltd. graced the occasion with their presence. Shri Govinlal Agarwal, General Secretary, RCOEM, Dr. R. S. Pande, Principal, and Dr. N. V. Shah, Head, DMT, RCOEM, Prof. Q. H. Jeevaji, Former Director, DMT were prominently present on the occasion. Sponsors for the conference were MOIL, SBI, LIC, Raymond and Friends Design Studio

## National Conference on Development in Civil Engineering and Technology for Smart Cities (DCESC 2016)



The Civil Engineering Department of the College in association with Indian Water Works Association, Nagpur Center, had organized a national conference on 'Development in Civil Engineering and Technology for Smart Cities (DCESC 2016)' on 19th and 20th February 2016 at Shri Ramdeobaba College of Engineering and Management. The conference was inaugurated by Mr. Shravan Hardikar (Commissioner, NMC) and Dr. S. R. Wate (Former Director, NEERI) at 10.30 am on 19th February 2016. Mr. Banwarilal Purohit (Chairman, RCOEM) presided over the inaugural function.

Dr. A. K. Sharma (Convenor DCESC 16, RCOEM) welcomed the participants and briefed them about the themes of the conference. He emphasized that any change without rigorous and thoughtful planning may lead to major economic and cultural downfall. Dr. R. S. Pande, Principal, emphasized the need of organizing such conferences for creating awareness among youth for participation in development of country. Dr. Satish Vate, as the Guest of Honour, highlighted the importance of research and development of materials and technology for usefulness of smart cities.

Dr. Mrs. K. S. Bhole (Convener DCESC16, IWWA) introduced the chief guest. During his inaugural address Mr. Shravan Hardikar explained the concept of smart City. He highlighted that it is about over all development of a city and it also implies contribution of citizens to make their city smart. He further said that there is a lot of talk about smart cities these days, but it is possible only when every individual acts as smart citizen.

Shr Banwarilal Purohit in his presidential speech stressed on the development of hawkers zone in the city, regularization of unauthorized layouts and slums, and need of utilizing the existing resources for betterment of citizens.

The conference was divided into five technical sessions based on various themes. The eminent personalities, who are involved in developments and planning of cities, delivered the key note address. Dr. Arun Chaturvedi (Head, Land Use Planning, Nagpur) delivered the opening key note on "Land Use planning for Smart City". Dr. Pawan Labhshetwar (Secretary, IWWA, Nagpur Center and Head of Water Technology and Management Department) talked about "Water Safety for smart cities". ShriTarun Shrivastava (Principal System Analyst, National Informatics Center, Nagpur) delivered his key note on "Role of National Information Centre in Town Planning". Dr. Vimal Gahlot (Executive Engineer, PWD, Research Wing, Bikaner, Rajasthan) presented his key note on "Sustainable Infrastructure Development in India: The Way Ahead". Dr. Samir Bajpai (Professor, NIT Raipur) delivered his lecture on "Environmental Concern for Smart Cities". Dr. Rahul Ralegaonkar (Associate Professor, VNIT, Nagpur) spoke about "Sustainable Construction Materials for smart Cities".

### ENNOVATE in RCOEM

Electrolitz Students' Society of EN organized National conference and Project Competition ENNOVATE 2016 on the eve of National Science day. The theme of the competition was "Science and Technology for Humanity". The objective of this competition was to provide platform for budding engineers to share their creative ideas on the development of technology to meet societal needs. The event was inaugurated by Mr. CBS Markam, Principal Director, Ordnance factory Institute of learning, Nagpur; and Mr. Virag Deshpande, Sr. Manager, Mahindra and Mahindra, Nagpur was guest of Honor. Dr. (Mrs.) A.A.Khurshid, Head of the department, Prof. B. M. Harads and Prof. Gouri Morankar, Convenor, ENNOVATE-2016, Pratik Bhutada, President, Electrolitz students society and Ahthesham Siddiqui, technical coordinator were present. Prof. B. M. Harads elaborated on various activities scheduled in the mega event like paper presentation, bread board competition, technical quiz and invited talk on IPR. Dr. Khurshid congratulated Electrolitz students' society for continuing legacy ahead

The five technical sessions were chaired by – Dr. Valsson Varghese (Professor, KDK College of Engineering, Nagpur), Dr. Pophli (Scientist, NEERI, Nagpur), Dr. Katpatal (Professor, VNIT, Nagpur), Dr. V. S. Landge (Professor, VNIT, Nagpur), Dr. S.V.Ambekar (Professor, YCCE, Nagpur). Twenty-five research papers from academic and research institutes were presented in the conference. Dr. Rajesh Gupta (President, IWWA) was the chief guest for the valedictory function. In his address he focused on the need of economic growth and improvement of quality of life of people by enabling the local area development and harnessing the technology, specialty technology that leads to smart outcomes. Dr. M. S. Kadu (Head, Civil Engineering Department) stressed the need for planning the cities to make them sustainably livable through the intervention of technology with the optimum cost. Dr. P. D. Pachpor, Organising Secretary, proposed the formal vote of thanks.

in technical arena. Mr. Virag Deshpande motivated student participants to think ideas create new things and innovate. Chief guest Mr. CBS Markam advised students to follow make in India concept in their lives to solve medical, societal and agricultural issues. The project exhibition was opened on February 27, 2016 from 10 am to 2 pm for visitors and students. Valedictory and prize distribution was held on Saturday 27 February at 4 pm. Prof. B. M. Hardas and Prof. (Mrs.) Gouri Morankar convened the event. Local organizing committee and student volunteers worked hard under the guidance of Dr. R. S. Pande, Principal and Patron of ENNOVATE-2016 and Dr. (Mrs.) A. A. Khurshid, Head of the department. The competition saw presentation of 50 UG projects, 12 Polythenic projects and two PG projects. 70 papers were presented by UG students, 4 by Polythenic students and 5 PG students.



## DEPARTMENTS

### ENGINEERING

Civil Engineering  
Computer Science Engineering  
Electrical Engineering  
Electronics Engineering  
Electronics Design Technology  
Electronics and Communication  
Industrial Engineering  
Information Technology  
Mechanical Engineering

### BASIC SCIENCES

Humanities  
Mathematics

### PHYSICAL EDUCATION & SPORTS

### POST GRADUATE PROGRAMMES

MBA  
MCA



## DEPARTMENT OF CIVIL ENGINEERING

### FACULTY CORNER

• The Department has completed a consultancy of Rs. 8.00 lakhs on 'Assessment of bearing capacity of foundation strata for the construction of seven storied residential complex and community hall at Police Head Quarters (Rural), Indora, Nagpur and residential quarters at Police Line Takli, Nagpur' for Maharashtra State Police Housing and Welfare Corporation Limited (MSPHW), Mumbai. It was carried out by Dr. M. S. Kadu, Dr. P. D. Pachpor, Prof. T. K. Rao, Dr. A. H. Padade, Prof. A. A. Mehta and Prof. V. J. Rajurkar.



• Prof. P. B. Kulkarni, Prof. P. P. Dahale, and Prof. Nikeeta Dethe's paper entitled "Effect of combination of sand, clay and lime on engineering properties of yellow soil", was published in International Journal of Research in Engineering Science & Technology, 2015.

• Prof. P.P. Dahale presented the following paper in International conference on recent trends in Engineering and Material Science held at Jaipur National University on 17th to 19th March 2016:

• "Engineering behavior of remolded expansive soil with lime and flyash"

• "Macro and Micro-structural studies of lime stabilized soil".

• Prof. S. V. Joshi and Prof. P. D. Pachpor presented a paper entitled "Development of eco-friendly geo-

polymer concrete-new approach to reduce global warming" in the 5th International conference on Global Technology Initiatives, Mumbai, 29th and 30th March 2016.

• Prof. A.K. Sharma, Prof. T. K. Rao, and Prof. P. D. Pachpor presented a paper entitled "Sustainable transportation planning- a way forward", at National conference on DCESC, Nagpur, 19-20 Feb 2016

• Prof. P D Hiwase presented a paper entitled "Study of modern technologies in construction industries", at CYNOSVRE-16, Nagpur, 21-22 March 2016.

• The following papers were presented at National conference on DCESC, Nagpur, 19-20 Feb 2016:

• Prof. S. V. Joshi and Prof. M. S. Kadu presented "Application of geopolymers concrete- a smart ecofriendly construction material"

• Prof. T. B. Gupta, Shubham Somwanshi, and Deepal Yadav presented "Adsorption Fundamentals"

• Prof. Ajay Agarwal, Prof. Pravin Kulkarni, and Prof. Eknath Gonnade presented "Grey Water Management: For Sustainable Smart City"

• Prof. Mahendra Kadu and Rajendra Dighade presented "Study of infrastructure leakage index with reference to Indian conditions".

• Shweta Rathi, Mohit Somani, and Rakesh Kumar Srivastava presented "Use of GIS in site selection of MSW divisional landfill: a case study of Allahabad division"

• Prof. T. K. Rao, Abhishek Singh, Amit Gupta, Ayush Kumar, and Shikhar Sharma presented "A study of transportation of Nagpur city".

### STUDENTS' ACCOMPLISHMENTS

• Abhishek Sharma and N. S. Agrawal presented paper entitled "Top down construction methodology in plunge column", in International Conference on Recent trends in Engineering & Materials Science (ICEMS-2016), Jaipur, 17-19 March, 2016.

• Mehul Rathi and N. S. Agrawal presented paper entitled "Comparison of Multistoried buildings G+10 by seismic and wind analysis", in International Conference at IBSS, Amravati, 30-31 March 2016.

• The following papers were presented in National conference on DCESC, Nagpur, 19-20 Feb 2016:

• Shubham Mahesh, Dimpanshu Namdeo, and V A Dakwale presented "Effect of metakaoline on concrete used for repair and strengthening"

• Shubham Somwanshi, Deepak Yadav, and T. B. Gupta presented "Adsorption Fundamentals"

• Anubhuti Gupta, Anushka Kumar, Kaustubhi Thakre, and Dr Mahendra Kadu presented "Smart water distribution networks".

• Aditya Lakhe, Akshay Subhash Tejankar, Manish Ashok Harwani and Prem Ganesh Gupta students of VI semester won 2nd prize amongst 43 teams in 8th National Civil Engineering Students' Symposium held at IIT Mumbai on 12th and 13th March 2016. They were that were selected for the final presentation, They presented a research paper on "The use of Permeable Concrete for Ground Water Recharge" The students group was mentored by Dr. Vaidehi A. Dakwale, Dr. S.V. Joshi, Prof. E. M. Gonnade, Prof. Sumeet Geete, and Prof. Nikhil Agrawal.



### CAPACITY BUILDING ACTIVITIES

• Civil engineering students association (CESA) organized an expert lecture on "Journey through Concrete Jungles" by Mr. C. M. Dordi, Professor IIT, Bombay for the students of the Department on 21st January 2016. Prof. V. A. Dakwale introduced the speaker to the students while Prof. P. D. Pachpor felicitated him. Mr. C.

M. Dodi who holds a wide experience in the field of cement industry shared his life experience with the students. He focused on the present scenario and importance of research in cement industry. He also explained the scope of Civil Engineers in this field and tried to persuade the students to take up research in the future. The vote of thanks was proposed by Prof. N. S. Kakwani.



- The Department organised an industrial visit to the Ultra Tech Cement Limited, Awarpur Cement Works (ACW) under the banner of Nagpur RCOEM IEI Students' Chapter (Civil Eng.) on 5th March 2016. Around 30 students participated along with faculty members. They gained knowledge about manufacturing of cement from various processes involved like collection of raw materials from the mines, crushing and grinding of raw materials, pulverization, heating in rotary kilns, packing, transportation and various effective pollution control measures being taken up by the industry. They were also briefed about the immense contribution of communication, managerial and soft skills in career building. The visit concluded with a fruitful interaction with the Unit Head Mr. G. Balasubramaniam. The visit was actively organised by the team of ACW, Mr. G. Balasubramaniam - Unit Head, Mr. D. R. Chowdhury-HOD (HR), Mr. S. K. Gupta- HOD (Civil), Mr. D. K. Kashyap- Officer (HR) Mr. Kiran Nichant- Asst. Manager (Civil), Mr. Niraj Tripathi- Officer (HR), Mr. Rahul C. Desai - Dy. Manager (Process).
- Prof. Nikita S. Kakwani (faculty advisor of the Nagpur RCOEM IEI Students' Chapter, Civil Eng.) conducted the visit successfully along with other faculty members Dr. V. A. Dakwale, Prof. Laxmi Gangwani, Prof. Mohd. Abbas, and Prof. M. S. Balwani.



#### BEYOND ACADEMICS

- Mr. Mayur Paliwal of VI semester Civil Engineering is selected in United Nation to work as Campus Ambassador for RIO 23+ program. Rio+23 WHS India Program Campus Ambassadorship is a prestigious leadership opportunity for students in colleges and universities across India. The role involves promotion of UNCSD and WHS objectives and bringing about enrolment in Rio+23- certification program through efficient collaboration with administrators and peers.
- Mr. Ayush Gupta VI semester BE Civil Eng. qualified for Indian Engineering Olympiad 2015-16 with 5th city rank and a score of 24.72.
- Mr. Prem Gupta VI semester BE Civil eng. qualified for Indian Engineering Olympiad 2015-16 with 6th city rank and a score of 24.41

#### CAPACITY BUILDING ACTIVITIES

##### BOS Meeting

- The meeting of Board of Studies in Civil Engineering was conducted on 8th March 2016. Head of the Department Dr. M. S. Kadu chaired the meeting. Dr. R. Daryapurkar, M.D., Lars Enviro Pvt. Ltd., Nagpur, Dr. R. Sonparote, Associate Professor, Civil Eng. Dept., VNIT, Nagpur, and Mr. Satish Raipure, Structural Designer and Consultant, Nagpur attended the meeting. Apart from minor modification in the content of few courses, proposal to start a short term course on "Entrepreneurship development program in Civil Engineering" was proposed by Prof. M.S. Tiwari and approved by the Board.



- Prof. A.K. Sharma, Prof. T. K. Rao, and Prof. P. D. Pachpor presented a paper entitled "Sustainable transportation planning- a way forward", at National conference on DCESC, Nagpur, 19-20 Feb 2016
- Prof. P D Hiwase presented a paper entitled "Study of modern technologies in construction industries", at CYNOSVRE-16, Nagpur, 21-22 March 2016.
- The following papers were presented at National conference on DCESC, Nagpur, 19-20 Feb 2016:

#### Workshop on Startups



- A two-day workshop on Startups in service sector in civil engineering "AUDACIOUS" was inaugurated by Shri Deepak Menaria, Director, Lemon Institute of Entrepreneurship. He gave details about the contents of document on startups of Government of India and asked the participants to choose the enterprise which has innovation as major component. Mr Vivek Naik, Managing Director, Blackcat Enterprises, shared his experience and the guru mantra for success of any enterprise - innovation, cost reduction techniques and continuous up gradation of technology. He urged participants to start working on startups during their education time itself. Workshop In charge, Prof M S Tiwari narrating the theme "Startup Projects in service

sector of civil engineering with small capital" which can be taken up by fresh civil engineers, told that the capital can be rolled five or six times thus creating a turnover of about Rs. 10-15 lakhs.

- In the basic sessions the participants were guided by Mr P. Kulanthavel, AGM, UCO Bank on bank finance schemes. Mr Prashant Mishra and Prof P D Pachpor spoke about government registrations and tendering and Chartered Accountant Mr. Sandip Jotswani spoke about Taxation. In the first project session Prof Uday Mujumdar and Prof Manoj Tiwari presented project profiles on automated pumping systems and sensor based safety and security systems under home automation category. Mr Rajoria of Krushi Kranti Kendra, gave details on landscape and gardening. In the second session Mr Pradip Mudle discussed business opportunities in Painting sector. Mr Praksh Ghushke spoke about possible Startups in water proofing and chemical treatment of structures. Architect Kishore Kokje spoke about opportunities in scientific plumbing.
- In the third session young entrepreneur Mr. Viraj Voditel stressed the need for improving soft skills and gave details about new business areas and building information system. Mr Vishal Parwate presented case study on cooling and ducting. Mr. Sarang Paranjpe spoke on opportunities in surveying and remote sensing. In the last session Mr. Devendra Ranade spoke on Startups in the area of solar systems and Mr. Shashank Kulkarni and Mr. Omkar Palandurkar spoke on construction materials. Mr. Amol Taori and Mr. Chirag Doshi, participants of previous year's workshops who have started their own enterprise, were also felicitated in the inauguration session. 195 students from various engineering and polytechnic colleges of Vidarbha attended the workshop.
- Dr. M. S. Kadu, Head Civil Department and Prof M. R. Jain, Incharge of EDC cell of the institution also guided the participants. Two hundred students from all over Vidarbha attended the workshop. Prof M S Tiwari, workshop Incharge with students' team of Ashutosh Thakur, Sachin Gupta, Devorat Kesharwani, Kunal Chaudhari, Abhinav Goyal, Vishal Mathya, Kamesh Gonnade, Hardik Sharma, Aman Agrawal, Yash Yadav, Nikhil Gattani, and Arya Agrawal worked hard for the success of the workshop

## DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

### FACULTY CORNER

- Dr. M. B. Chandak has been appointed as a member of Advisory Board of Computer Engineering of St. Vincent Pallotti College of Engineering and Technology, Nagpur for the year 2015-16.
- Prof. Ashwini Zadgaonkar and Prof. Neha Tirpude attended Infosys sponsored Campusconnect Faculty Enablement Programme on "Agile Methodologies" organized by RCOEM from 4th to 8th January 2016.
- Prof. V. K. Bongirwar and Prof. M. Wanjari attended "Train the Trainer" Program on "IOT" by Infocepts, Nagpur on 18th, 20th and 22nd January 2016.
- Prof. Khushboo Khurana attended an Online Course on Introduction to Big data from University of California, San Diego, Coursera on 1st January 2016.
- Dr. A. J. Agrawal and Prof. D. A. Borikar attended a Infosys Sponsored "Train-the-Trainer Workshop on Python" at Infosys Campus, Pune on 26th February 2016.
- Prof. S. Aote delivered an expert lecture on "Data Communication" for students of G. H. Raison College of Engineering on 8th March 2016.
- Prof. S. Aote delivered an expert lecture on "Advanced Topics in AI" for S. B. Jain Institute of Technology, Management and Research on 18th February 2016.
- Dr. Avinash J. Agrawal delivered an expert lecture on "Language Processor" for students of G.H.Raison College of Engineering, Nagpur on 5th February 2016.
- Dr. M. B. Chandak published a paper entitled "Role of big data in classification and novel class detection in data streams" in Journal of Big Data, March 2016 Volume 3, Issue 5, Online ISSN 2196-1115.
- Dr. M. B. Chandak published a paper entitled "Energy Efficient Self-Organization Wireless Sensor Network for Traffic Management in Smart Cities" in International Conference on Data Engineering and Communication Technology (ICDECT 2016); Aspire Research Foundation, Lavasa City, (published in AISC Series of Springer), 10th -11th March 2016.
- Prof. A. M. Karandikar's paper entitled "A Survey on Power Theft Detection" was published in International Journal of Innovative Research in Computer and Communication Engineering, Jan 2016 Volume 4, Issue 1, ISSN(Online): 2320-9801 ISSN (Print): 2320-9798.
- Prof. Devishree Naidu's paper entitled "Methodology for optimizing storage on cloud using authorized de-duplication- A review" was published in IRJET, IRJET e-ISSN: 2395-0056, p-ISSN-0072 Volume 3, Issue 2, February 2016.
- Prof. Abhijeet Raipurkar's paper entitled "Web Usage Mining- A review" was published in International Journal of Advanced Research in Computer and Comm. Engg Volume 4, Issue 12, Online ISSN 2278-1021.
- Dr. R. Hablani's paper entitled "Traffic sign analysis and Detection" was published in International Research Journal of Engg and Technology, Feb 2016, Volume 3, Issue 2, Online e-ISSN:2395-0056.
- The following papers were published in International Journal of Advanced Research in Computer and Comm. Engg, Feb 2016 Volume 5, Issue 2, Online e-ISSN:2278-1021.
  - Prof. S. Jain's paper entitled "A study of Image classification using Bof Model" was published in
  - Prof. S. Jain's paper entitled "A study of Gender Prediction Using Online Social Images".
- Prof. D. Borikar's paper entitled "A survey on Evaluating Sentiments by using Artificial Neural Network" in International Research Journal of Engg and Technology, Feb 2016 Volume 3, Issue 2, Online e-ISSN:2395-0056.
- Prof. D. Borikar presented a paper entitled "Dictionary based Approach to sentiment Analysis" – A Review in National Conference on Recent Trends in CS and IT, 26th and 27th February 2016.
- The following papers were published as a Review in International Research Journal of Engg and Technology, Feb 2016 Volume 3, Issue 2, Online e-ISSN:2395-0056.



- Dr. R. Hablani's paper entitled "An object Detection, Tracking and Parametric Classification"
- Prof. A. M. Karandikar's paper entitled "Prediction of Heart Disease Using Data Mining Techniques".
- Prof. T. Diwan's paper entitled "An optimized Parallel algorithm for Longest common subsequence using Open MP.
- Prof. P. Pardhi presented paper entitled "A Review on Vehicle detection for complex Traffic Conditions" in International Conference on Emerging Trends and Research in Engg Technology and science, 30th and 31st March 2016.
- Prof. T. Diwan's paper entitled "An Optimized Parallel Computation of Advanced Encryption Algorithm using Open MP-A Review" was published in International Journal of Advanced Research in Computer and Communication Engineering, Feb 2016 Volume 5, Issue 2, ISSN(Online):2278-1021.
- Prof. M. Wanjari's paper entitled "Review on Analyzing User Search Goals by Clustering Pseudo-Document" was published in International Journal of Innovative Research in Computer and Communication Engineering, March 2016 Volume 4, Issue 3, ISSN (Online):2320-9801.
- Dr. A. J. Agrawal presented the following papers in International Conference on Cyber security and IT Governance, March 19, 2016:
  - "Haming Problems from social Networking Sites using semi-supervised hearing approach"
  - "A Digital Forensic Investigation model for social Networking site"

### STUDENTS' ACCOMPLISHMENTS

- Tushar Sahay, Sagar Ayalani, Avnika Goyal, and Shriya Shivankar of Final year were the 1st Runner-up in Project Competition on "E-Governance" organized by Directorate of Technical Education, Nagpur and G.H. Raison COE, Nagpur on 18th January 2016. These students were felicitated by Chief Minister of Maharashtra Hon. Mr. Devendra Fadnavis. They also showcased their project in COMP-EX 2016 Nagpur Next- IT Based Project Competition organized by Vidarbha Computer and Media Dealers' Welfare Association.



Chief Minister. Hon. Shri Devendra Fadnavis with Final Year Students

- Rohit Nagbhidkar and Ramkrishna Kulkarni were awarded Vishwakarna Cup in "Genesis 2016"- National Level Project competition (Project titled "Gate Automation and Home Safety") organized by Dharampeth Polytechnic, Nagpur on 4th February 2016. They also bagged the 1st prize in Model Competition in Intercollegiate Competition on "Advanced Applications of Science" 2016 conducted by Tulsiramji Gaikwad-Patil College of Engg. and Technology, Nagpur on 27th February 2016. They are developing the project under the RGSTC-TIFAC-MSME Internship Scheme.



Rohit Nagbhidkar and Ramkrishna Kulkarni at "Genesis 2016"

- Piyush Bhatia from Final year, presented a paper entitled "3D Password: A Complex Authentication Mechanism" in "SPANDAN 2016- National Conference on advances in Engineering, Technology and Applied Science" 17th - 18th March 2016 at YCCE, Nagpur.
- Saurabh Khemuka, Ketki Kinage, Harshita Verma, and Gaurav Singh of Final year are doing live product research and development project at Hiplogik App Solutions for the session 2015-2016.

- Toshal Patel, Vaishnavi Tatewar, and Shamali Nandanwar of Second Year reached the Semifinal of IT OLYMPIAD 2016 organized by CSI (Pune chapter) and Rotary club of Pune Pride.
  - Piyush Jain of Second Year attended "Moz Startup Web" at Consortium '16 at VNIT, Nagpur from 9th to 10th January 2016.
  - Sanjeet Tiwari of Second Year was a part of the Publicity Committee of Business Masterminds 2016 conducted by Entrepreneurship Development Cell, RCOEM from 23rd to 28th January 2016.
  - Piyush Jain of Second Year secured 3rd position in Crack Jack, Polaris 2k16 conducted by Department of Computer Science, RCOEM from 29th to 30th January 2016.
  - Ayushi Lalwani and A.Saheti Naidu of Second Year participated in ROBOCON 2016 (National Robotic Contest) conducted by MIT Academy of Engineering, Pune and Doordarshan India from 3rd to 5th March 2016.
- The following students brought laurels to the Department in GATE, TOFEL, CAT and GRE :**



Harshal Garg  
GATE Score – 654  
99.01%



Sarthak Shrivastav  
GATE Score – 611  
98.56%



Nidhi Singh  
GATE Score – 457  
94.94%



Prathmesh Gade  
GATE Score – 658  
99.04%



Ketaki Kinage  
GRE-324



Sagar Pawar  
GATE Score – 532  
97.16%



Saima Sayyed  
GATE Score – 476  
95.63%



Ishan Khaparde  
GRE-316  
TOEFL-100/120



Rashi Agrawal  
GATE Score – 430  
93.74%



Anurag Singh  
GATE Score – 400  
92.12%



Rajat Motwani  
CAT Score – 170.81  
98.43%



- Anand Singh and Sagar Pawar of Final Year and Mohit Saluja of Second Year reached the Semifinal of IT OLYMPIAD 2016 organized by CSI (Pune chapter) and Rotary club of Pune Pride.
- Shweta Singh of Second year participated in Workshop on Aptitude Development –UG- 2015 and bagged the 1st prize in Extempore conducted by Nagpur Institute of Technology, Nagpur from 25th December 2015 to 5th January 2016.
- Shweta Singh of Second year worked as a Student Organizing Committee member for Workshop on Aptitude Development –DIP- 2015 from 6th to 9th February 2016 and 4th – 7th March 2016.
- Mohit Saluja of Second year participated in Code-Relay, Polaris 16 conducted by Computer Science and Engineering Department, RCOEM, Nagpur from 29th to 30th January 2016.
- Khushboo Soni of Second year participated in Workshop on Aptitude Development 2016 conducted by RCOEM, Nagpur from 1st to 7th January 2016.

#### CAPACITY BUILDING ACTIVITIES

#### GUEST LECTURES

- Prof. Sheetal Vij, Assistant Professor from MIT, Pune delivered a lecture on "Interpersonal Skill Development" conducted under CSI Student Branch on 12th January 2016. The lecture was attended by 25 students of third year. She briefed the students about how to prepare effective technical presentations, verbal skills, non-verbal skills and corporate dress sense.
- Mr. Baisula Desuja, Mr. Gagandeep Kaur, and Anjali Choubey from Global Logic Pvt. Ltd. Nagpur delivered a hands-on session on "Android" on 27th and 28th January 2016 in Polaris 2016.
- Mr. Neeraj Chouriya from Persistent Systems delivered a hands-on Workshop on "Salesforce Technology" on 27th and 28th January 2016 in Polaris 2016.
- POLARIS 2K16: A Two-day Technical and Cultural Fest – POLARIS-2k16 (29th-30th January 2016) was organized by COMPUSYS (Student Society CSE), Computer Science and Engineering Department of Shri Ramdeobaba

College of Engineering and Management (RCOEM), Nagpur in association with Computer Society of India. The aim of the event was to encourage the students towards co-curricular activities and provide a platform to showcase their technical skills.



"Casopes 2016" Department Magazine Release at inaugural function of POLARIS2k16

- The event was inaugurated by the chief guest, Mr. Amit Kale, Director, Engineering at GlobalLogic India Pvt. Ltd., Nagpur on 29th January 2016. He illustrated the concept of digital disruption that occurs when new digital technologies and business models affect the value proposition of existing goods and services.
- Dr. R. S. Pande, Principal, RCOEM, delivered the presidential address motivating the students to participate actively in the upcoming events. The dignitaries along with Dr. M. B. Chandak, Head, CSE Department and Prof. D. Naidu, Professor in-charge of Polaris unveiled the departmental magazine, CASOPES.
- Technical workshops on ANDROID, MATLAB and SALESFORCE were conducted alongwith events like Code Relay, Crack Jack, Hot Heads, Lord of the Stage and Project Exhibition. The event concluded with a fun-filled cultural evening.

#### CSI (COMPUTER SOCIETY OF INDIA) FOUNDATION DAY CELEBRATION AT RCOEM

- Student Branch CSI of Shri Ramdeobaba College of Engineering and Management organized a COMPUTER SOCIETY OF INDIA FOUNDATION DAY on March 12, 2016. Guest for the inaugural function was Dr. U. A. Deshpande, Associate Professor and Associate Dean

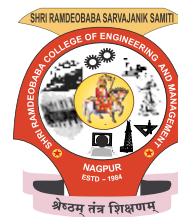


(IT), VNIT, Nagpur. Dr. U. A. Deshpande delivered an expert lecture on "Local Search and Optimization" and shared his experience about Genetic Algorithms with reference to Artificial Intelligence.

- A Computer Technology based Puzzle solving and Quiz competition were held for all CSI member students. Mr. Tejas Wate and Mr. Nikhil Barapatre won the first prize and Mr. Gaurav Khichi and Mr. Rushab Jain secured the second position in Quiz Competition. Mr. Nayan Jaiswal and Mr. Nikhil Barapatre won the first and second position in Puzzle Solving competition, respectively.

#### BEYOND ACADEMICS

- The CSE Department won the Dance Cup in Inter-Branch Dance competition at Pratishruti 2016.
- This year CSE Department received 1st runner-up Branch Cup Trophy for their performance in overall activities.



## DEPARTMENT OF ELECTRICAL ENGINEERING

#### FACULTY CORNER

- The biography of Prof. T. G. Arora was selected for publication in "Marquis Who's Who in the World". The same was published in the Who's Who in the World@ 2016 (33rd Edition).
- Prof. S. C. Rangari presented a paper entitled "Harmonic Content Testing for Different Stator Winding Connections of Five- Phase Induction Motor" in 6th International Conference on Power Systems (ICPS 2016), Indian Institute of Technology, Delhi, 4th -6th March 2016. This paper has been included in IEEE Explore database.
- Dr. M. M. Renge presented paper entitled "Power factor Improvement using Nine Switch AC-DC-AC converter" in 6th International Conference on Power Systems (ICPS 2016), Indian Institute of Technology Delhi and India Habitat Centre, New Delhi, 4th -06th March 2016.
- Dr. M. M. Renge presented paper entitled "Improved Performance of Series Z-Source Inverter for Motor Drive" in 6th IEEE student's Conference on Electrical,

Electronics and Computer Science 2016 organized by IEEE MANIT Bhopal from 5th-6th March 2016.

- Prof. M. Sahu's paper entitled "Simulation of Static Mode and Dynamic Mode of Microcantilever Structures" was published in International Journal of Advance Engineering and Research Development (IJAERD), Vol. 3, issue 3, pp. 126-129, March 2016, e-ISSN: 2348-4470, p-ISSN:2348-6406.
- Dr. D. R. Tutakne delivered an expert guest lecture on "DC Drives" on 2nd March 2016 organized by Ordnance Factory, Ambajhari, Nagpur.
- An expert guest lecture was delivered on "Closed Loop Controllers" on 2nd March 2016 organized by Ordnance Factory, Ambajhari, Nagpur.
- Dr. M. M. Renge delivered an expert lecture on the topic "Solar Driven Mechatronics System" held on 3rd March 2016 organized by Ordnance Factory, Ambajhari, Nagpur.

- Prof. M. V. Palandurkar delivered an expert guest lecture on "Introduction to Motors" on 2nd March 2016 organized by Ordnance Factory, Ambajhari, Nagpur.



- Prof. M. V. Palandurkar delivered expert guest lecture on "Single/Three Phase Controlled Rectifiers" on 23rd February 2016 organized by Dharampeth Polytechnique College, Nagpur. The event witnessed the participation from the students of Electronic and Communication branch.

#### STUDENTS' ACCOMPLISHMENTS

- The following presentations were made at ELECRAMA-2016 (The World Electricity Forum) organised by IEEMA, Bangalore. They received "Certificate of Special Recognition" from the organizers:
  - Ms. Aaisha Meraj Ali, Mr. Manoj Waghmare and Ms. Madhura Deshmukh of M. Tech. (PEPS) presented hardware project "Twelve Pulse Line Commuted Converter for Grid Interfacing of Solar Photovoltaic Array"
  - Ms. Medha Giri and Ms. Shefali Wasnik of M. Tech. (PEPS) presented hardware project "High Efficient Induction Motor Drive"



Receiving certificate from organiser



Receiving certificate from organiser

- Mr. Rahul V. Chakole, Mr. Anurag Khergade and Ms. Bhavika Shah of M. Tech. (PEPS) have presented hardware project "Energy Management System for Electric Vehicle using Super-capacitors." It was also mentioned in ELECRAMA-2016 daily news letter dated 13th February 2016.
- Ms. Medha Giri and Ms. Shefali Wasnik received the Best Hardware Project Award for their project "High Efficiency Induction Motor Drive" in National Conference on Clean Energy: Renewable Energy and Energy Conservation and Exhibition organized by the Institute of Engineers Nagpur Local Centre, Nagpur, during 5th-6th March 2016. This project was appreciated by Honourable Shri Nitin Gadkari, Minister for Road Transport Highways and Shipping, Govt. of India, Parivahan Bhavan, New Delhi.



- The following papers were presented at 6th IEEE International Conference on Power Systems (ICPS 2016,) organised by Indian Institute of Technology, Delhi, 04th -06th March 2016. These have been included in IEEE Explore database:

- Mr. Anurag Kherghade, student of M. Tech. (PEPS) presented "Closed Loop Control of Axial Flux Permanent Magnet BLDC Motor for Electric Vehicles" This paper was co-authored by Dr. S. B. Bodkhe.
- Ms. Afsana Sheikh, student of M. Tech. (PEPS) along with Prof. S. H. Deshmukh and Dr. D. R. Tutakne presented "High Frequency Switched Isolated DC to DC Converter".
- The following papers were presented in 2nd International Conference on Recent Trends in Electrical Engineering (ICRTEE- 2016) organised by Tulsiramji Gaikwad Patil College of Engineering and Technology, Nagpur, 22nd-23rd January, 2016.
  - Mr. Rahul Chakole, student of M. Tech. (PEPS) along with Dr. M. V. Palandurkar and Dr. M. M. Renge presented "Boost Controller using Supercapacitor for Electric Vehicle",
  - Mr. Manoj Waghmare, student of M. Tech. (PEPS) along with Prof. P. A. Salodkar, presented "A Single Phase Multilevel Inverter with Reduced Number of Switches".
  - Ms. Bhavika K. Shah, student of M. Tech. (PEPS) student along with Prof. S. C. Rangari, presented "Inverter Fed 3-Phase Induction Motor Using Third Harmonic Injection Technique".
  - Ms. Medha Giri, student of M. Tech. (PEPS) along with Prof. S. H. Deshmukh & Dr. D. R. Tutakne presented "A Novel Extinction Angle and PWM Controlled Three Phase Induction Motor Drive".
  - Ms. Shefali S. Wasnik, student of M. Tech. (PEPS) along with Prof. V. T. Barhate presented "To Monitor the Condition of Transformer using Wireless Module".
  - Mr. Anurag Kherghade, student of M. Tech. (PEPS) along with Dr. S. B. Bodkhe, presented "Axial Flux Permanent Magnet BLDC Motor for Electric Vehicles".
  - Mr. Vinay Awasthi, student of M. Tech. (PEPS) along with Prof. V. A. Huchche, presented "Compensation of Reactive Power using Custom Power device D-STATCOM".
  - Mr. Kapil Jangid, student of M. Tech. (PEPS) along with Prof. U. B. Mujumdar, presented "A efficient Controller for LED Lighting using Microcontroller".
- Ms. Aaisha Meraj, student of M. Tech. (PEPS) along with Dr. M. M. Renge presented "Twelve Pulse Line Commutated Converter for Grid Interfacing of Solar Photovoltaic Array".
- Ms. Aaisha Meraj, student of M. Tech. (PEPS) along with Dr. M. M. Renge presented "Twelve Pulse Line Commutated Converter for Grid Interfacing of Solar Photovoltaic Array".
- The following papers were presented in National Conference on Clean Energy : Renewable energy and Energy Conservation and Exhibition organised by The Institute of Engineers Nagpur Local Centre, Nagpur, during 5th - 6th March 2016.
  - Mr. Manoj Waghmare, student of M. Tech. (PEPS) along with Prof. P. A. Salodkar presented "A Single Phase Multilevel Inverter with Reduced Number of Power Elements".
  - Ms. Medha Giri, student of M. Tech. (PEPS) along with Prof. S. H. Deshmukh and Dr. D. R. Tutakne presented "A novel energy efficient combined extinction angle and PWM controlled three phase induction motor drive".
  - Mr. Kapil Jangid, student of M. Tech. (PEPS) along with Prof. U. B. Mujumdar presented "A development of efficient controller for LED lighting using microcontroller".
  - Mr. Rahul Chakole, student of M. Tech. (PEPS) along with Dr. M. V. Palandurkar presented "Charging and Discharging of Supercapacitor using Hardware Implementation".
  - Ms. Aaisha Meraj, student of M. Tech. (PEPS) along with Dr. M. M. Renge presented "Twelve Pulse Line Commutated Converter for Grid Interfacing of PV Panels".
- The following papers were presented in National Conference & Project Competition ENNOVATE 2016, during 26th-27th February 2016 organised by Department of Electronics Engineering, Shri Ramdeobaba College of Engineering & Management, Nagpur:

- Ms. Surbhi Kanojia, Mr. Ajay Singh Thakur, Mr. Shubham Fulbandhe and Mr. Brajesh Laddha, Final year students along with Dr. M. V. Palandurkar presented "Improvement in Energy Transaction in Supercapacitor by Series- Parallel Re-configuration"
- Ms. Shradha Achaliya, Ms. Sayali Shende, Ms. Priyanka Sharma, and Ms. Amruta Dubey, Final year students along with Prof. S. C. Rangari presented "Reduction of THD with Low Switching Frequency of Diode Clamped Multilevel Inverter"
- A guest Lecture was organized for second year students of the Department on "How to prepare for Placement and Other Competitive Examinations" by EESA on 15th Feb 2016. The lecture was delivered by Mr. Avinash Naidu, Director, Career Launcher accompanied by Mr. Arun Sahu, Marketing Manager, Career Launcher. Around 65 students were present for the lecture. The lecture was organized by Prof. G. N. Goyal, EESA Coordinator under the guidance of Dr. S. B. Bodkhe.
- The Electrical Engineering Students' Association (EESA) had organized a one day workshop on "AUTOCAD ELECTRICAL" for the Third year students in Electrical Computer Laboratory. Students were divided in two groups to conduct the workshop in two batches i.e. on 25th and 26th February. The workshop was conducted by personnel of Astral Informatics Pvt Ltd, Nagpur. Mr. Praful Baid - CEO, Ms. Ankita Jog - Trainer, and Mr. Vishal -Trainer. Seventy seven students attended the workshop in two batches. They were benefited with the basic knowledge to use the Autocad Electrical which will be useful for them to draw single line diagrams and 3-D structures. The workshop was coordinated by Prof. G. N. Goyal, EESA In-charge, and Prof. Mrs. P. A. Salodkar under the guidance of Dr. S. B. Bodkhe.
- A guest lecture was organized by Electrical Engineering Students' Association (EESA) for BE II, III and IV year students on 11th March 2016. The guest lecture was delivered by the Dr. A. R. Abhyankar, Associate Professor, IIT Delhi on "International Practices in Power Market in United State of America". Around 90 students attended the lecture and got an overview on technicalities of power market.



- A guest lecture was organized for third and final year students of Electrical and Civil Engineering departments on "Chasing the Excellence - The Shivaji Way" on 18th March 2016. The lecture, delivered by Prof. Sumant Tekade, was organized by Prof. G. N. Goyal, EESA Coordinator and Dear SRC, Prof. S. H. Deshmukh under the guidance of Dr. S. B. Bodkhe.
- A guest lecture was organized for third year students of the Department on "PLC and its Application" on 21st and 22nd March 2016. The lecture was delivered by Mr. Jayant Paranjape, Director, Rutum Technocrafts. This lecture is coverage of part of UG curriculum by industry expert and it was organized by Prof. P. A. Salodkar under the guidance of Dr. S. B. Bodkhe.
- The Electrical Engineering Students' Association (EESA) organized a Mini-project competition for students of B.E.(Electrical) Sem-IV. The objective of the competition was to make the students of second year familiar and comfortable with various aspects of circuit design, fabrication and testing so as to develop a liking for real-time systems. Mr. Kunal Tale of B.E. Final year and Mr. Mohammad Adnan of B.E. Third Year, the Technical

Coordinators of EESA organized this event with other students under the guidance of Prof. G. N. Goyal. The final round took place on 4th April 2016. Three projects were adjudged for the three prizes. The winners were Aditi Katyarmal, Sahil Verma, Parikshit Jha and Pirosh Patle.

#### CAPACITY BUILDING ACTIVITIES

##### • Industry Visit

A one-day industry visit to Load Dispatch Centre, Ambazari was organized on 25th February 2016 for final year UG students. They were introduced to optimum scheduling and dispatch of electricity within a state, monitoring of grid operations, accounts of the quantity of electricity transmitted through the State grid and exercise supervision, control over the intra-state transmission system, real time operations for grid control, dispatch of electricity within the State through secure and economic operation of the State grid in

accordance with the Grid Standards and the State Grid Code. The accompanying faculty members were Prof. P. A. Salodkar, Dr. D. R. Tutakne, and Prof. S. V. Umredkar. The visit was organized by Prof. P. A. Salodkar under the guidance of Dr. S. B. Bodkhe.



Industry visit to Load Dispatch Centre, Ambazari, Nagpur

## DEPARTMENT OF ELECTRONICS ENGINEERING

#### FACULTY CORNER

- The faculty members of the Department provided the following services to industry/academia:

Industry	Nature of Activity	Area of Service	Faculty
Ordnance Factories Institute of Learning Ambazari	One week course on "Mechatronics" for Ordnance factory employees" from 29.02.2016 to 04.03.2016	System Modeling & Case Studies Electrical Actuating Devices PLC Ladder Programming Sensors Sensor & Signal Conditioning Industrial Automation using PLC	Prof. S. Balpande Dr. Mrs. J.P. Kalambe Prof. V. R. Rathee Prof. R.A. Deshmukh



Prof. R. A. Deshmukh during the talk on 3rd March 2016

- Prof. Vishal Rathee Mentored a group of students for ATMEL Design Contest Coimbatore, bagging the 1st position.
- Prof. Ankita Kumar and Shubham Anjankar carried out the following research activities :
  - presented a paper in International Conference on ICCCV 26-27th Feb 2016, Mumbai
  - "Electromagnetic Energy Harvester for Low Frequency Vibrations using MEMS" was published in Procedia Computer Science, Elsevier Volume 79, pp 785-792 DOI 10.1016/j.procs.2016.03.104

- "FPGA based Multiple fault Tolerance and Recoverable Technique using triple Modular Redundancy" in Procedia Computer Science, Elsevier Volume 79, pp 827-834 DOI 10.1016/j.procs.2016.03.109
- Shubham Anjankar "Design and Verification of Low power DA-Adaptive Digital FIR Filter" in Procedia Computer Science, Elsevier Volume 79, pp 367-373 DOI 10.1016/j.procs.2016.03.048
- Prof. Nikhil Damle completed a four-week online course on "Internet of Things" offered by KINGs College London in Association with Future Learn, from 8th Feb - 6th Mar 2016.

#### STUDENTS' ACCOMPLISHMENTS



Entrix 8.0 Processing's Released

##### • ENTRIX 8.0 Inaugurated at RCOEM

One week technical workshop for Second year students ENTRIX 8.0 was organized by Electronics Engineering Department from 19th January 2016. The workshop was inaugurated by Mr. Sandeep Darwhekar, Central India Electronics Association, Nagpur. Dr. R. S. Pande, Principal, RCOEM presided over the function. Dr.(Mrs.) A.A. Khurshid, HOD; Prof. B. M. Hardas and Prof. Gouri

Morankar, Convener, ENTRIX 8.0; Mr. Pratik Bhutada, President ELECTROLITZ Student society and Mr. Ahtesham Siddiqui, Technical coordinator ENTRIX 8.0 were present on the dais. Mr. Ahtesham, in his introductory remarks gave details of various sessions to be conducted in the week long workshop. Dr. (Mrs.) A. A. Khurshid spoke about the importance of such type of workshops in career building and requested the participants to design hardware projects. She also highlighted achievements of the Department. Principal Dr. R. S. Pande recalled his association with ENTRIX since its inception. He also congratulated Electrolitz student society for continuing the legacy ahead. Chief Guest Mr. Darwhekar advised students to learn fundamentals and participate in the technological revolution. About 130 students from RCOEM and various institutes participated in the workshop. Souvenir of ENTRIX 8.0 was also released on the occasion.



Winners of ATMEL DEC with Mentor Faculty and Head of Department

##### • Industry Training Programme

The following students have been going through or have completed training :

Name of the student	Institute / Organization / Industry	Duration
Vaibhavi Mehta	Hi-Tech Resistors Pvt. Ltd., Hingna, Nagpur	21st Dec 2015 to 7th Jan 2016
Prashansa Tinguria	Mahadev Industries, Hingna, Nagpur	1st to 15th Jan 2016
Sarang Kulkarni	Techwalnut Automation and Software Solutions Pvt, Ltd	15th Nov 2014 till date
Sanjay Agrawal	Techwalnut Automation and Software Solutions Pvt, Ltd	15th Nov 2014 till date
Awachit Raut	BARTI, Pune	8th Oct 2015 to 23rd Jan 2016

### • BSNL Platinum training

AICTE has entered into a MoU with BSNL to facilitate the technical institutions/engineering colleges across the country, to respond to the need of providing state of art telecom equipment based operational skills to engineering graduates under the Employability Enhancement Training Program (EETP) of AICTE. This skill based human capacity building program aims to provide competency based employability enhancement skills and hands-on skill training through BSNL Training Centres/Set Ups to the student community.

**Broadly, the learning of students shall be certified as below:**

- 1. BSNL Silver Certified Engineer:** Successful completion of Digital Switching System, Transmission Switching System and Telecom Support Infrastructure certificate programs in fifth semester.
- 2. BSNL Gold Certified Engineer:** Successful completion of Broadband Technology and Optical Fibre Technology certificate programs in sixth semester

**3. BSNL Platinum Certified Engineer:** Successful completion of Mobile Communication and IP Networking and Security certificate programs in seventh semester.

**Five students successfully completed BSNL Platinum training and now they are all BSNL Platinum Certified Engineers.**

- Senha Bharvesh VIII Sem Electronics Engineering secured II position in Abhyudaya16 Inter College Competition My-Point organized by Engineering India, IEI Nagpur
- Senha Bharvesh, Shatabdi Roy, NehaBabhale, Rashmi Dawande, and Suchdeep Juneja of Electronics Engineering secured represented RCOEM in Yuvarang RTMNU Youth festival in various cultural events.
- The students are encouraged to undertake and solve industry problems as their Final year project work. The following projects are being evaluated by the peer industries and are in their final phase of completion:

S. N	Project Title	Students	Guide
1	Wired Kit Ist	Vaishnavi Deepak Deoghare	Prof. M. S. Korde
		Saloni Deepak Shambhuwani	
		Vishakha Pravin Thakurdwarkar	
		Varshali Bharat Thakur	
2	Arm Controlled Omni-directional Hexapod	Stuti Banarjee	Dr. M. A. Hasamnis
		Surbhi Rajote	
		Sahil Dalvi	
		Saurabh Gupta	
3	Automatic Part Retrieval System	Sarang Madan Kulkarni	Prof. Ankita Kumar
		Saket Shyamsundar Penurkar	
		Rishabh Rajesh Nand	
		Sanjay Sunil Agrawal	
4	Design and Development of Coil Winder for HVAC Resistor	Rashika Surendra Gupta	Prof. A. P. Khanzode
		Swami Mukesh Mudgal	
		Shubham Subod Bang	
		Palash Omprakash Mohadikar	

S. N	Project Title	Students	Guide
5	Tracking of Shipment Using GSM Module	Abhiram Vinod Sagdeo	Prof. Nikhil Damle
		Abhishek Naresh Goyal	
		Nikhil Kamal Sahu	
		Murtaza Nuruddin -	
6	PCB Milling Machine	Abhishek Singh	Prof. Nikhil Damle
		Ashutosh Balki	
7	3 Axis CNC Router	Abhishek Thakur	Prof. Nikhil Damle
		Bhushan Chandrakant Charde	
8	Designing of Secondary Packaging Machine	Akhilesh Mahesh Rathi	Prof. B.M. Hardas
		Akshay Anil Singh	
		Akhilesh Jayant Khambre	
9	Biometric Secured Voting Machine	Akshay Gaoli	Prof. B.M Hardas
		Kartiki Chaudhari	
		Yash Agrawal	
		Ashwini Girhe	
		Archana Beni	
		Rashi Khurana	

• The following students participated in project model exhibitions and secured positions too :

S.N	SEM	Name of Student	Event	Position	
1	VIII	Ruchika Bothra	Ennovate, RCOEM	First	National Conference and Project Competition
2	VIII	Shagun Phafat	Ennovate, RCOEM	First	National Conference and Project Competition
3	VIII	Saurabh Jaiswal	Anveshan, NIT Nagpur and IEI Nagpur	First	National Conference and Project Competition
4	VIII	Shweta Dubey Karishma Nandekar Purva Langewar	ATMEL Design Contest	Top 12	National Project Competition

• Students of II/III/IV year participated in various National Level project/Paper presentation competitions like ENNOVATE (45), Electrocraft (5), Spandan (3), Ankeshan (2), Xplore (2), E-governance (4), Robotron (8) etc. Students also submitted their research papers in international conferences/international journals (15).

### CAPACITY BUILDING ACTIVITIES

Sr No	Name of Activity	Area	Target Audience	Faculty Coordinator
1	Workshop on Raspberry Pi from 1st to 5th Feb 2016	Embedded System	II Year Student	Ankita Kumar Shubham Anjankar
2	On-Chip peripheral Access of Xilinx Nexys Board from 16th to 17th Feb	Digital Design	M.Tech VLSI	Shubham Anjankar

**BEYOND ACADEMICS**

Industrial visits were arranged to provide the students the understanding of the working environment and processes within the industry. The students interacted with the industry officials and observed the working of these industrial units. A visit in this quarter was arranged for MGIRI, Wardha. The faculty coordinators were Dr. (Mrs.) A. A. Khurshid, Dr. (Mrs.) J. P. Kalambe, Dr. (Mrs.) R. R. Khandelwal, Prof. V. R. Rathee, and Prof. R. A. Deshmukh.



Industry visit to Load Dispatch Centre, Ambazari, Nagpur



## DEPARTMENT OF ELECTRONICS DESIGN TECHNOLOGY

**FACULTY CORNER**

- Prof. Vivek E. Khetade has been awarded Ph.D in Electronics Engineering from RTMNU, on "Synchronization in Globally Asynchronous Locally Synchronous (GALS) Soc".
- Prof. Anju Gupta's paper entitled "A Review on Prospects of Graphene in Communication" was published in International Journal of Trend in Research and Development (IJTRD), Volume 3, Issue 1 (February 2016 Issue).
- Prof Jitendra Zalke attended a Faculty Development program "3 day Hands on Workshop on Digital Signal Processing", at VNIT, Nagpur from 5th – 7th March 2016.
- Prof. Udayan S. Patankar presented a paper in IEEE Sponsored 3rd International Conference on Electronics and Communication System at Karpagam College of Engineering Coimbatore, Tamil Nadu – 641032, on 25th – 26th February 2016.
- Prof. Suvarna. K. Gosavi delivered a guest lecture on "Thermal Power Plant Control & Instrumentation" at National Power Training Institute, Nagpur on 16th - 18th March 2016.

**STUDENTS' ACCOMPLISHMENTS**

- Ankit Gadpayle, 6th Semester, Sneha Shrivastava, Vishaka Barai, Noopoor Misal, Vedant Sharma, 4th Semester participated in "AUB Robocon 16 (Asia Pacific Robotics Competition) at Balewadi Stadium, Pune from 3rd – 5th March 2016.
- Nishita Bamblani and Shreyasi Tembhurne, 4th Semester, participated in Workshop on Aptitude Development WAD-16 organized by RCOEM, Nagpur, 1-7 January 2016.
- Ruddhi Lad and Vedant Sharma, 4th semester, participated in Entrix 8.0 Technical Event organized by Department of Electronics, RCOEM, Nagpur, 19-25 January 2016.
- Gargi Ashtikar and Niharika Chavhan, 4th semester, participated in ENNOVATE Project competition organized by Electrolitz Student Society of Dept of EN, RCOEM, Nagpur, 26-27 February 2016.
- Nishita Bamblani and Vedant Sharma, 4th Semester, participated in NCOAT-NIRMITI -2016 Project Exhibition (Project Title - Gesture Controlled Humanoid Robot), Conducted in National Conference on Advance Technology NCOAT-NIRMITI - 2016 organized by PIET, Nagpur, 11-12 March 2016.
- Sanjeevan Pathak, 4th semester, participated in Techno Quiz conducted in National Level Technical event ELECRAMA2K16 organized by Priyadarshini College of Engineering under Tele Era and IEEE Student Chapter on 18th March 2016.

- Sanjeevan Pathak, 4th semester, participated in Shodh -16 A Project competition conducted in National Level Technical event ELECRAMA2K16 organized by Priyadarshini College of Engineering under Tele Era and IEEE Student Chapter on 18th March 2016.
- In the ongoing campus placement drive, following Final year students of the department have been placed so far in Infosys, Tech Mahindra, Capgemini, Accenture, Wipro, etc.

Name of Student	Name of Company
Zulqarnain J. Sabir	Wipro, Accenture, Infosys
Anjali Dhundele	Wipro, Accenture
Akansha Singh	Wipro, Infocept
Kedar Khapre	Infosys, Accenture
Prerna Sathe	Wipro, Accenture
Latasha Parasnani	Accenture
Amol Chavan	Tech M
M. Kushagra	Tech M
Darpan Agrawal	Accenture
Nidhi Shrivastava	Infosys
Pradip Vetal	Wipro
Shashwati Bhagat	Tech M
Nitya Jain	Accenture
Akshay Punyani	Accenture
Amruta Aparajit	Accenture
Ankita Gupta	Capgemini
Aanchal Chowrasia	Accenture
Bhavika Paidlewar	Accenture
Abhishek Singh	Infosys
Shubhani Patil	Accenture
Naveen Purohit	Accenture
Kalindi Vyas	Inautix

**CAPACITY BUILDING ACTIVITIES**

- A Guest Lecture on "Digital System Design and Verification" was organized by the Department for 2nd and 3rd year students of EDT on 26th February 2016.
- Industrial visit for 6th Semester students was organized to Maharashtra Remote Sensing Application Centre (MRSAC), NAGPUR on 19th March 2016. Prof. Deepali Shelke, Prof. Anju Gupta and Prof. Suvarna K. Gosavi accompanied the students during this visit. The students were benefited in terms of the technical details provided by Maharashtra Remote Sensing

Application Centre (MRSAC) on an important part Promotion of Remote Sensing and Geographic Information System, Resources Mapping Management and Monitoring, State Resources Information System, Data ware house and Dissemination, Technology Development, Promotion and E-governance.



Industrial visit to Maharashtra Remote Sensing Application Centre (MRSAC), Nagpur

**Alumni Student Mentoring Programme**

Department of Electronics Design Technology started Alumni Student Mentorship Programme to bring the students and alumni together in a mutually rewarding relationship. Alumni Student Mentorship programme uses an online platform to introduce students to alumni from different class years, programs, and industries. Under this programme the alumni mentor share personal experiences, and provide students a personal connection to executives and other alumni from around the world. The students can build their own network and gain new perspective on the possibilities open to them after graduation. Under this scheme alumni mentor can guide the students who are interested in the field of alumni to make their career in that direction. Under this

program we have arranged an Interactive Video conferencing with Mr. Raman Parthasarathy, alumni of EDT Department on 25th February 2016. Mr. Raman Parthasarathy is a Vice President of Strategy – Product and Business Development, Rivers and Technologies. The students interested in domain of Mr. Raman Parthasarathy attended the lecture. The lecture was based on the topic, "Data Management and Information Management". 10 students of Department who are interested in this field attended the Videoconference. Under this Mentoring scheme students will be in continuous touch through videoconferencing with the alumna Mentor, who will guide them in knowing and

exploring the opportunities in the field of their interest in the future.



Video conferencing with Mr. Raman Parthasarathy

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### FACULTY CORNER

- Dr. S. B. Pokle's paper entitled "Implementation of Adaptive Noise Cancellation Filter for Noise Cancellation Application" was published in International Journal of Novel Research in Engineering, Science and Technology, March 2016 Vol. 1, Issue 1, ISSN No: 2455-7935.
- Dr. R. D. Raut's paper entitled "Experimental study of different turbo coding rates for MIMO-OFDM system" was published in Journal of Measurement Science and Instrumentation, March 2016 Vol. 7 No. 1, ISSN : 1674-8042.
- Prof. Pradip Selokar's paper entitled "Linux Kernel on ARM 9" was published in International Journal of Reconfigurable and Embedded Systems (IJRES), Volume 5, No. 1, March 2016 issue. ISSN: 2089-4864 (Unpaid)
- Prof. Deepak G. Khushalani's paper entitled "Fabrication and characterization of MEMS cantilever array for switching applications" in International Journal of Microelectronic Engineering (ELSEVIER), February 2016, Vol. 157, Pages 78-82.
- Dr. S. B. Pokle and Dr. Rajeshree Raut were invited as session chairs for National Conference on advances in Engineering, Technology and Applied sciences 'SPANDAN 2016', held on 17-18 March 2016 at YCCE Nagpur.

- Dr. Rajeshree Raut was invited as session chairperson in technical session in 4th International Conference and 17th ISTE New Delhi MAH. Goa Section Faculty Convention held at Dr. Rajendra Gode Institute of Technology and Research Amravati, 2-30 March 2016.
- Prof. Anish Goel delivered guest lecture on "RTOS Concepts" in Electronics and Telecommunication Engineering Dept. at S. B. Jain Institute of Technology, Management & Research, Nagpur on 31st March 2016.
- Prof. Deepak Khushalani was invited as the guest speaker for the session "Hands on Microwind for backend VLSI" at J D College of Engineering and Management Nagpur in TECHNO LEAD- 2016 event held on 27th February 2016.

### STUDENTS' ACCOMPLISHMENTS

- EC department student were awarded prizes for various events held during Inter College Branch Activities for session 2015-16:
  - 1) 1st Prize in Fair-Play Award.
  - 2) 1st Prize in Solo-Dance Cup. & 2nd Prize in Group Dance cup.
  - 3) 2nd Prize in Placement Cup.
  - 4) 3rd Prize in Music Cup, Drama Cup & Poetry Cup.

- Mr. Harshal H. Baheti 3rd year student of the department was honored with "Athlete of the year" award for 2015-16 session.

### CAPACITY BUILDING ACTIVITIES

- The Department organized a three-day workshop on "Communication Systems Development using Arduino Board" from 28-30 March 2016 for 3rd year Electronics and Communication Engineering students in which 25 students participated. Prof. Chetan Waghmare was the co-ordinator of the workshop.



## DEPARTMENT OF INFORMATION TECHNOLOGY ENGINEERING

### FACULTY CORNER

- Dr. D. S. Adane's paper entitled "Models and Issues in Data Stream Mining", was published in International Journal of Computer Science and Applications, Vol. 9, No.1, Jan - Mar 2016, ISSN: 0974 - 1011.
- Dr. D. S. Adane and Prof. A. V. Chandak attended a three-day "Train The Trainer" Workshop on Internet of Things (IoT) conducted at Infocepts, Nagpur by Mr. Swapnil Deshmukh, Technical Director, Infocepts, on 18th, 20th and 22nd January 2016.
- Prof. A. V. Chandak and Prof. P. J. Assudani attended a Faculty Enablement Program on "Software Testing" conducted by Infosys Limited, Pune from 4th to 08th January 2016 at Shri Ramdeobaba College of Engineering and Management, Nagpur.
- Prof. A. V. Chandak attended a Lecture on "Programming,

Machine Learning and Startup ecosystem in Pune" organized under ACM Nagpur at Persistent System Ltd. on 30th January 2016.

- Prof. C. B. Thakkar attended a One week Faculty Development Programme on "Machine Learning with R" organized by Department of Information Technology, YCCE, Nagpur held at YCCE, Nagpur from 4th to 9th January 2016.
- Prof. A. V. Chandak, Prof. K. A. Jain and Prof. P. Patel attended a Faculty Induction Program on "Bridging the gaps between Industry needs and Acedemics" at Persistent System Ltd. On 4th February 2016.
- Prof P. J. Assudani attended the 19th National Conference on E-Governance held at Hotel Le-Meridian, Nagpur from 21st - 22nd January 2016



**STUDENTS' ACCOMPLISHMENTS**

- Sumeet Khobragade and Aditya Sharma, VIII semester, presented a Project titled "Privacy Preserving Optimal Meeting Location Determination on Mobile Devices (Android)" and secured 2nd Position in National Conference and Project Competition ENNOVATE 2016, held at Shri Ramdeobaba College of Engineering and Management, Nagpur from 26th – 27th February 2016.
- Disha Rathod, Priyanka Jagyasi and Shreya Barahate, VIII semester, presented a Paper Titled "Talk and Play" and secured 2nd position in National Conference "CSEISMIC-2016" held at Rajiv Gandhi College of Engineering and Management, Nagpur from 12th – 13th March 2016.
- Hina Shivhare, Noureen Khan and Srishti Jaju, VIII semester, presented a paper entitled "Doctionary- An Android Application to find Doctors in Nagpur" and secured 3rd position in National Conference on Tech-Shindig 6.0, held at Priyadarshini Indira Gandhi College of Engineering, Nagpur 25th -27th February 2016.
- Urja Upadhyay and Kewal Kalantri, VIII semester, presented a paper entitled "Automatic Text Summarization for Hindi Language" and secured 1st position in National Conference SPANDAN-2016 held at Yeshwantrao Chavan College of Engineering, Nagpur 17th - 18th March 2016.
- Prakash Pandey, Tushar Godhwani, and Viresh Dhawan, VIII semester, presented a paper entitled "Real time data analytics with Apache Storm" and secured 3rd position in National Conference Techyazd-2016 held at Wainganga college of Engineering and Mangement, Nagpur 21st March 2016.
- Mr. Sarthak Sharma and Ms. Priyal Kulkarni of Final year got GRE score of 320/340
- Ms. Priyal Kulkarni of Final year got TOEFEL score of 112/120
- Mr. Yogit Tembhurney of Final year got SNAP percentile of 89.7782

**CAPACITY BUILDING ACTIVITIES**

Department of Information Technology in Association with Infosys, Pune organized a one-week Faculty Enablement Program on "Software Testing" held from 4th

- 8th January 2016, at Shri Ramdeobaba College of Engineering and Management, Nagpur. The Subject experts who conducted the sessions were:

1. Ms. Vidya Paliwal, Principal-Education and Research at Infosys Ltd, Pune.
2. Mr. Anuj Jagoo, Lead -Education and Research at Infosys Ltd, Pune



- 37 students of third year and 2 faculty members of department attended "Tieto Curriculum-to-Career Industrial training" at Tieto Software technology Solutions, Pune from 18th - 21st February 2016. The training was conducted on the following topics:
  - Corporate culture and team building
  - Effective Communication and Presentation Skills
  - Personal Interview and Group Discussion.
  - Latest Industry trends.
  - Software Development Life Cycle.
  - Application Development, Maintenance and Testing.
  - Documentation, Quality Control and Processes.
- An Alumni meet of IT Department was held in Pune on 20th February 2016. Two faculty members namely Prof. P. V. Kokardekar, Prof A. V. Chandak and 15 Alumni of IT department working in Pune attended the meeting.



- A lecture was conducted on "Aptitude Development" for second and third year students on 27th February 2016 by a team of Career Launcher, Nagpur.
- An Alumni interaction session was held on 24th February 2016 for third year students. Ms. Shubhada Jambhekar, 2008 batch alumni interacted with the students.
- A lecture was conducted on "Preparation of GATE exam" for second year students on 17th February 2016 by a team of ISE GATE Academy, Nagpur.

**BEYOND ACADEMICS**

- Raunak Singhvi, IV semester, won Second Prize in an event "Natalin Trilingual Debate (Hindi)" held under MiRAAS (National Inter -University Cultural Festival) at New Delhi from 16th – 18th February, 2016.
- The Department won the Placement cup for the highest number of placements in the college during the year 2014-15.
- Himanshu Maheshwari and Rishabh Rastogi, IV and VIII semester, stood as Runner-Ups in Inter Collegiate Table Tennis Competition.



- Riddhi Kakadiya, VI semester was Runners-up in Inter Collegiate Women's Basketball Tournament.
- Sneha Jiddewar, VI semester, was Runners-up in Inter Collegiate Women's Volleyball Tournament.
- Women's Cricket team of IT Department won the Inter-Branch Women's Cricket Tournament. The Team members were: Anuja Fole (VIII semester), Priya Nagdev (VIII semester), Riddhi Kakadia (VI semester), Aditi Deshmukh (IV semester), Apoorva Kulkarni (IV semester), Sanika Aloni (IV semester), and Megha Rajput (IV semester)



- Students of Information Technology stood FIRST in YOUTH PARLIAMENT conducted by the Literary club of College on 9th January 2016. The team of students included - Raunak Singhvi, Dhavala Sourabh, Purva Bamb, Viddhesh Dharpure, and Seena Saboo

## DEPARTMENT OF INDUSTRIAL ENGINEERING

### FACULTY CORNER

- Dr. V.S. Deshpande was felicitated and was conferred with the "Scroll of Honor" in the All India seminar on "Quality Progress 2016" held on 20-21st Feb 2016 at The Institution of Engineers (India), Nagpur Local Centre.
- Dr. V.S. Deshpande received the best paper award (second) for paper entitled "Improvement of workflow and productivity through application of MOST in the All India seminar on "Quality Progress 2016" held on 20-21st Feb 2016 at The Institution of Engineers (India), Nagpur Local Centre.
- Dr. V.S. Deshpande received best Paper award titled "Reorganization of layout in a furniture Manufacturing industry through a systematic layout planning" in the All India seminar on "Quality Progress 2016" held on 20-21st Feb 2016 at The Institution of Engineers (India), Nagpur Local Centre.
- Prof. S. M. Randiwe received the Best Technical Paper Award at Indian Foundry Congress -2016 held at IIF Coimbatore, 29-31 Jan 2016. The same paper is published in Indian foundry Journal in the March Volume. Title of the paper is "Experimental Investigation of Computer aided titanium casting for customized implant manufacturing".
- Dr. V. S. Deshpande et al's following paper were published and presented:
  - "Formulation and Comparison of Experimental based Mathematical Model with Artificial Neural Network Simulation Model for Optimal Performance of Cotton Pre-Cleaning Machine", in International Journal for Innovative Research in Science and Technology, January 2016.
  - "Casting Weight Optimisation" in International Journal of Innovations in Engineering and Technology, February 2016.
  - "Applications of MOST - A case study" in International Journal of Innovations in Engineering and Technology, February, 2016
  - "Investigation of Musculoskeletal disorders in sewing

machine operation-Literature Review" in Industrial Engineering Journal, February 2016.

- "An Approach for improvement of overall equipment effectiveness in a steel industry", at All India Seminar on Quality Progress, Nagpur on 20-21 Feb, 2016
- "Ishikawa & why? why? analysis on shifting in casting" at All India Seminar on Quality Progress, Nagpur on 20-21 Feb, 2016
- "Manufacturing throughput time per piece (MTTP) reduction using lean production system (LPS): A case of small scale industry" at All India Seminar on Quality Progress, Nagpur on 20-21 Feb, 2016
- "Process Improvement in Foundry Industry through Kaizen" at All India Seminar on Quality Progress, Nagpur, 20-21 Feb, 2016
- "Improvement in Nozzle Utilization of Flux Cored Arc Welding Torch in Medium Scale Fabrication Industry" at All India Seminar on Quality Progress, Nagpur, 20-21 Feb, 2016.
- Dr. Rashmi Shahu presented paper entitled "The NIOSH lifting equation for manual lifting and its applications: A literature review" at All India Seminar on Quality Progress, Nagpur, 20-21 Feb, 2016
- Prof. Sachin Pund attended one week STTP on "Advanced Engineering Optimization Through Intelligent Techniques (AEOTIT)" held by the department of Mechanical Engineering, Sardar vallabhbai National Institute of Technology (SVNIT), Surat, 21-25 March 2016.
- Dr. V. S. Deshpande was invited as a Judge for Quality progress, IEI All India seminar - February 2015
- Dr. V. S. Deshpande and Prof. M. P. Joshi visited MSRTC (Maharashtra State Road Transport Corporation) central workshop at Dapodi Pune on 12th march 2016 for conducting time and motion study.



### STUDENTS' ACCOMPLISHMENTS

- Anuja Pandey, IV Sem Mtech, received best paper award (second) for paper entitled "Improvement of workflow and productivity through application of MOST" presented in the All India seminar on "Quality Progress 2016" held on 20-21st Feb 2016 at The Institution of Engineers (India), Nagpur Local Centre.
- Vinayak Shete (IV Sem Mtech) et al.'s paper entitled "Casting Weight Optimisation" was published in International Journal of Innovations in Engineering and Technology, February 2016.
- Anuja Pandey (IV Sem Mtech) et al.'s paper entitled "Applications of MOST - A case study" was published in International Journal of Innovations in Engineering and Technology, February 2016.
- The following papers were presented at All India Seminar on Quality Progress, Nagpur on 20-21 Feb, 2016:
  - Ajay A Joshi (IV Sem Mtech) presented "Manufacturing throughput time per piece (MTTP) reduction using lean production system (LPS): A case of small scale industry"
  - Vinayak Kamlakar Shete (IV Sem Mtech) presented "Process Improvement in Foundry Industry through Kaizen".
  - Nityam Karn and Sushmita Deshpande (Final year) presented "Reorganization of layout in a furniture Manufacturing industry through a systematic layout planning". It also received the best Paper award.
  - Nityam Karn and Sushmita Deshpande, Final Year were ranked first for Case study competition for Engg entitled "Design and Improvement of workstations for office Furniture manufacturing Plant" in the All India seminar on "Quality Progress 2016" held on 20-21st Feb 2016 at The Institution of Engineers (India), Nagpur Local Centre.
  - Jibraan Sheikh, Chetan Tidke, and Jaffer Ali (Final Year) presented paper entitled "An Approach for

improvement of overall equipment effectiveness in a steel industry" at All India Seminar on Quality Progress, Nagpur on 20-21 Feb, 2016

- Manish Pakhrani and Rishabh Prasad (Final Year) presented paper entitled on "Improvement in Nozzle Utilization of Flux Cored Arc Welding Torch in Medium Scale Fabrication Industry" at All India Seminar on Quality Progress, Nagpur, 20-21 Feb, 2016.
- Following Final year student appeared for GATE 2016

Name	Gate Score	AIR
Rahim malik	461	231
Pranjal Warambhe	494	188
Vivek Tiwari	409	312

- Utkarsh Rathi, Third year, represented Nagpur University in National Youth fest Feb 2016 and secured 3rd Position in Debate and First position in overall Literary Cup organised by All India University Association and Ministry of Youth affairs.
- Aditya Kukde, Varun Kinkhede, Saeel Ghube (second year) were winners of Priyadarshini Football Tournament, S. B. Jain Football Tournament, and stood third in inter branch football cup held at RCOEM.
- Aditya Kukde, Varun Kinkhede, and Saeel Ghube (second year) stood second in Inter branch relay competition, held at RCOEM.
- Antara Mehta (Second year) participated in 65th Senior National Tournament in Jan-16 in Mysore. She represented Maharashtra team.
- Antara Mehta and Nidhi Agarwal (Second Year) participated in National Sport Meet at Priyadarshini College, Feb 2016 and was awarded a gold medal in basketball for the year 2015-2016. They also represented Nagpur University twice in basketball for session 2015-16 held in Jaipur and Nanded.
- Rahim Malik (4th year), Pranjal Warambhe (4th year), Dhawal Bajirao (4th year), and Rinkesh Jeswani (2nd year) participated and were the semifinalist team in an international simulation competition "SIMIO" under the guidance of Prof. D.R. Zanwar. 142 teams participated consisting of 460 students from all over the world.



**CAPACITY BUILDING ACTIVITIES**

The Industrial Engineering Society organized the following lectures and workshops for the capacity building of the students:

- Guest Lecture on 29 January 2016 by Mr. Tarun Thapar on "OPPORTUNITIES FOR HIGHER STUDIES" was organized for 2nd and 3rd Year students. Mr. Thapar discussed about the issues students face for higher studies and provided solutions. The lecture was very interactive and informative. Prof. Yogesh Deshpande (IES Incharge) gave the vote of thanks.



- Guest Lecture on 12 February 2016 by Mr. Saurabh Mohta (MD, True Form Pvt. Ltd) on Molding Processes where Mr. Mohta oriented the students with the basics of molding and elaborated on the insights of Molding Processes. The lecture helped the students to know the current practices adopted by industries in molding process.
- Workshop on "Modern Manufacturing Techniques" on 10th March 2016 by Mr. Imran Haque from Indo German Tool Room (IGTR), Nagpur. Around 70 students participated in the workshop which began with a welcome speech by Prof. Yogesh Deshpande. Dr. I. P. Keswani and Dr. D. R. Zanwar addressed the gathering. Mr. Imran made the students aware about the modern manufacturing techniques. The workshop was very effective and Mr. Imran's guidance helped students to know about MMT. The workshop ended with a vote of thanks by Prof. Ambarish Deshpande.



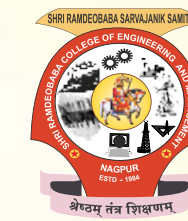
- **Guest lecture on 18th March 2016 by Mr. Milind Chittak on Heat Load Calculation** was about detailed analysis of Energy management and Heat load Calculation. Touching upon the vast untapped energy potentials, he outlined the increasing dependency of people on petroleum products. The lecture was very informative and interactive.



- Anuja Pandey, MTech IV Sem, conducted a one day workshop on "MDAT Software-Application of MOST" for faculty of Industrial Department on 16th February 2016.

**DEPARTMENT OF MECHANICAL ENGINEERING****FACULTY CORNER**

- Dr. V. V. Shukla authored a book entitled "Engineering perspectives in Renal Artery Stenosis and Stenting", published by Sara Publications Gujrat, ISBN Number: 978-1-63040-149-8.
- Prof. S. S. Joshi's paper entitled "Investigations of Different Liquid Based Spectrum Beam Splitter for Combined Solar Photovoltaic Thermal Systems", was published in the SCI Indexed unpaid Journal of Solar Energy Engineering, ASME Trans., vol-138, Issue-2. ISSN 0199-6231, January 2016, impact factor of 1.9.
- Prof. S.A.Patil's paper entitled "Two Phase Thermosyphon - A Review of Studies" was published in International Journal of Engineering Sciences and Research Technology, Vol-1, Issue-5, PP182-193, ISSN: 2277-9655 January 2016, impact factor of 3.78.
- Dr. M.M.Gupta and Dr. D. R. Zanwar conducted a training programme for MOIL employees on "Microsoft Project" (MS Project- 2013) and Exploring CPM and PERT, 2nd to 6th January 2016, at MOIL Bhavan, Katol Road Nagpur.
- Dr. V. V. Shukla and Prof. Rahul Waghmare's paper entitled, "A Plant Layout Design for a Bamboo Furniture Industry" was published in International Journal of Scientific Research in Science, Engineering and Technology, ISSN 2394-4099, January 2016, impact factor of 3.62.
- Prof. S.S.Joshi and Prof. R.S.Dixit's paper entitled "Performance Investigations of Hybrid Solar Photovoltaic - Thermoelectric (Hybrid PV-Te) System" was published in The International Journal for Scientific Research & Development, ISSN: 2321-0613, Vol. No. 04 Issue No. 01, PP: 475-477, March 2016.
- Prof Y. M. Sonkhaskar chaired the technical session and judged the students at national level paper presentation competition held at NIT Nagpur on 22nd March 2016.

**STUDENTS' ACCOMPLISHMENTS**

- In the campus recruitment drive in this quarter, 56 Final year students of the department were placed. Students have received offer letters from the following companies, TAL Manufacturing solutions limited(4), ITC Infotech (10), Shapoorji Pallonji & Co. Ltd.(3) Infosys (21), Wipro(13), Accenture(25), Tech Mahindra (3), Inautix (2), Capgemini(3), and Nice Software Solutions(1). The numbers are bound to increase, with some companies yet to visit.
- Rupak Ghawghave of Final year got placed in ARAI (The Automotive Research Association of India, Pune under the ministry of Heavy Industries and Public Enterprises Govt. of India) at the HR meet organized at SAE INDIA BAJA 2016 competition held at NATRX, NATRIP facility Pithampur near Indore from 16th to 23rd February 2016.
- Vaishak P and Prasad Dharmadhikari of Final year got placed in Voltas Limited during the Job Junction drive held under the banner of ISHRAE Nagpur chapter on 28th January 2016.
- Rajat Oksiya of Final year secured marks in GATE 2016 examination with marks with a score of 768 in GATE 2016 examination with All India Rank of 1026 and has received interview call from BPCL.
- Hrishikesh Sathe of Final year scored 329 marks in the GRE exam and is hopeful of getting admission for M.S in top ranking universities globally.
- Soumitra Dhabolkar of Final year scored 98.6 percentile in the CAT 2016 examination and has received interview calls from many IIM's and top management schools of the country.
- Saurabh Dubey of Final year scored 315 marks in the GRE exam and is hopeful of getting admission for M.S in top ranking universities globally.

- Himanshu Dixit of 2015 batch scored 97.55 percentile in the CAT 2016 examination and has interview calls from many IIM's and top Business schools of the country.
- Sanket Gomekar of Final year scored 319 marks in GRE exam and is applying for M.S in the top ranking universities in the world.
- Prasad Dharmadhikari of Final year secured 62.79 with a score of 688 with All India Rank of 2635 in the GATE 2016 examination.
- Saurabh Dubey of Final year scored 315 marks in the GRE exam and is hopeful of getting admission for M.S in top ranking universities globally.
- Shubham Baranwal of Final year scored 308 marks in GRE exam and is applying for M.S in the top ranking universities in the world.
- The students of our College successfully participated in the finals of SAE India Baja 2016 competition held at NATRAX test tracks at the NATRIP facility, Pithampur near Indore from 16th to 23rd February 2016. This was our second participation at SAE BAJA. The experience gained at BAJA 2015 helped the team. This year the vehicle cleared the technical inspection, static test, participated in all the dynamic tests and took part in the final endurance run. Our college team secured 61st position amongst 400 teams that initially participated for the virtuals. Moreover at the HR meet organized at the event one of the final year student Rupak Ghavghave got placed in ARAI (The Automotive Research Association of India, under the ministry of Heavy Industries and Public Enterprises Govt. of India) with a package of Rs. 11.02 Lacs per annum CTC (after completion of 2 years probation). Also 3rd year mechanical engineering students, Rohan Dekate has been selected for an internship at Mahindra and Mahindra.
- Following are the student members of Team BAJA Impulsifiers: Abhishek Mishra (Captain), Rupak Ghavghave, Digvijay Turkar, Gajendra Munot, Sanket Gomekar, Shubham Hardas, Shubham Pogle, Ritesh Yadav, Ishant Goyal, Rajat Oksiya (Final year Mechanical) Saurabh Trivedi, Akshay Kumar Singh (Final year Industrial), Mayank Mohoni (Final year

Electronics) Siddharth Singh, Shyamlee Mishra, Ankesh Thakur, Aditya Shahu, Laukik Nishane, Sarthak Bajpai, Rohan Dekate, Ankita Shiwal (3rd year Mechanical) Vedant Lohbare (3rd Year Industrial), Ruchika Kushwaha (3rd Year Electronics), Parikshit Dumbhare (2nd Year Industrial). Faculty Advisors: Prof. Bhushan C. Bissa (Mechanical Engineering Dept.), Prof. Ganesh Sethiya (Industrial Engg. Department)

- The students of Robotics Club of RCOEM successfully participated in the nationals of ROBOCON 2016 organized by MIT Pune at Chhatrapati Shiv Krida Sankul Balewadi, Pune from 3rd to 5th March 2016. The team started working for the competition from December and was successful in fabricating the "HYBRID Robot", and "ECO Robot" required for the competition, by the end of February. The team cleared the technical inspection and competed with the likes of IITs and NITs and other reputed technical institutes from across the country. The students gained a lot of practical exposure and applied their skills and creativity in designing and fabrication of the Robots. The following were the student members of the team: Mitesh Agrawal, Digvijay Turkar, Mandar R. Deshmukh, Pratik Shivhare, Harsvardhan Rai, Mrudul Khuley, Fazian Khan, Gayatri Wagh, Rishab Gupta, Harjot Singh, Bharat Kungawani, Akshay Katpatal, Kevin Teny Roy, Pragya Mahadhule, Vaibhavi Mehta, Gouri Andhare, Nikita Singh, Babita Daswani, Harshal Bhusari, Aditya Bangde, Radhika Agrawal, Shreyashi Mahurkar, Ankit Badukale, Parag Vhora, Kaushik Pande, Nidhi Buhraja, Ayushi Lalwani, A. Saheti Naidu, Vinay Ajmera, Ravishree Burugkar, Sumit Dandekar, Ankit Gadpayle, Vishakha Barai, Sneha Shrivastava. Faculty incharge: Prof. P.B. Shiwalkar.
- Neelabh Trivedi, Nithish Chandra and Anubhav Gupta performed in a play titled "Gumnam Hai Koi", organized by Stagecraft Theaters at IMA hall Nagpur on 18th and 19th February 2016.
- Neelabh Trivedi, Nithish Chandra, Arunima Charaborty, Anubhav Gupta, Rajat Agrawal, Bharat Khungwani and Ajinkya Paliwal won the 3rd prize at "Yuva Rang" theatre competition organized by R.T.M. Nagpur University on 26th February 2016.

### CAPACITY BUILDING ACTIVITIES



- The Department in association with MECHASSO organized a technical extravaganza - VORTECHX 2016 from 11th to 13th February 2016. VORTECHX '16 was a premier technical event that provided a platform for technocrats of Vidarbha and adjoining regions.



- The event was Sponsored by Manganese Ore India Limited (MOIL, Nagpur), co-sponsored by Manmohan Chemicals Pvt. Ltd. and Navratna Industries, Nagpur. "Where Innovations Converge" - the theme of the event stood true to its name with workshops like Power Plant Familiarization, BrainWave controlled Bot, CNC and Tool Design Simulation, Automobile Workshop, and events like Quizzup, War of Goals, LensArc, Jugaad (ED Cell) etc. which were designed keeping in view means and measures to enhance, exchange and expedite knowledge. Many key note speakers and eminent

personalities from premier institutes have been invited to share their experiences with the new generation of engineers and giving a whole new dimension to the field. A perfect blend of engineering knowledge and business protocol in order to enhance the capabilities of present day engineers was the major attraction of the event. VORTECHX proved to be new platform for all the passionate engineers to ignite their potential and add a golden feather to their caps. Following sessions were conducted as part of the event:



- Robotics workshop on "Brain Wave Controlled Robot" was conducted in the main auditorium. In the two day workshop the participants were introduced to EEG (Electroencephalography) and microcontroller based robots. The fundamentals of brain waves and their applications were explored during the workshop. The participants learned about the various types of Microcontroller, Sensors, Actuators, programming of IDE. The workshop was conducted by the technical experts from ARK Techno solutions, Mumbai. A brain wave controlled robot kit was provided to each team consisting of four participants. Prof. P.B. Shiwalkar and Prof. Rahul Waghmare along with student volunteers worked hard towards successful conduction of the workshops.
- A two day Automobile Engineering Workshop with hands on practical exposure was conducted. In all 65 participants from various engineering and technical institutes from Vidarbha took part in the workshop. The workshop was divided into three sessions each on I.C engines, automotive brakes use of CAD software's in automobile design. A quiz was also organized for the participants, which evoked tremendous response and ignited the minds of the participants. The first session on I.C Engines was conducted by Mr. Vijay Kumar

Bhamri of DIGMA Pvt. Ltd Nagpur. His daylong session gave insights on the basics of I.C engines, its components and their manufacturing process and quality control. Live demonstration on disassemble of 4-stroke and 2-stroke engine kept the students involved and the practical exposure multiplied their interests and quest for knowledge. The participants were spellbound to see the components along with an audio visual presentation explaining its working and other technical details. The second session of Design of Automotive Brakes was conducted by Prof. Ganesh S. Sethiya of Industrial Engineering Department, RCOEM. The basics of brake design and details of the various types of brakes along with their working was explained and the participants saw various brake components. In the last session Mr. Rahul Naidu of Dysmech Consultancy Pune, explained the use of CAD software in the design of automobiles and other mechanical components, he also discussed a case study of development of aSports by using one of the CAD softwares. The participants had a very good learning experience. Ashutosh Klinkar, Soumitra Dhabolkar., Dhruv Koti, Gajendra Munot, Tirath Singh Puni and other students worked hard towards successful conduction of the workshop.



• A CNC workshop was organized in which experts from the industry and academia enlightened the participants about the working of various modules of a CNC machine. The following experts conducted the various sessions of the workshop Mr. Sachin Jain Director Vishwashanti Udyog Nagpur, Dr. I.P.Keswani Professor and Head Industrial Engineering Department RCOEM, Mr. Chandrakant Zoting Director, Fourways Distributors Nagpur, Mr. Imran Haque Head, IGTR (Indo German Tool Room) Nagpur and Prof. Mohan Trivedi Department of Mechanical Engineering. The

participants learned about the basics of CNC, CNC programming, CAM module, CNC Tooling and its details, CNC tool design and advance approaches towards tool design. The students also had hands on training experience at the CNC machines available in the college workshop.



#### INDUSTRIAL VISITS

- Industrial visit was organised for the students of IV semester, B.E at Hydraulic Power Plant, Pench (Totladoh) 80 MW x 2 on 15th February 2016 and the students were accompanied by Dr. M. M. Gupta, Prof. Y. M. Sonkhaskar, Prof. A. M. Andhare, Prof. S. S. Joshi, Prof. R. M. Waghmare and Prof. R.S. Dixit.
- Industrial visit was organised for the students of VI semester, B.E at Truform and Kapilansh DhatuUdyog, Kamptee Road, Nagpur on 19th February 2016, and the students were accompanied by Dr. G. R. Potey, Prof. N. P. Gudadhe, and Prof. R. M. Waghmare.
- Industrial visit was organised for the students of VI semester, B.E at Reliance Power, Plot No 50 D/3, MIDC Butibori, Nagpur - 441122 on 19th February 2016, and the students were accompanied by Prof. R. M. Waghmare and Prof. N. A. Bhawe.

#### Acrex 2016

The members of ISHRAE Students chapter, RCOEM attended and explored South Asia's Largest Exhibition on Air Conditioning, Ventilation, Refrigeration and Building Services i.e. ACREX 2016 held at Bombay Convention and Exhibition Centre, Goregaon East, Mumbai on 25th -27th February 2016. A large range and variety of industrial, domestic products and instruments were exhibited. The

students came across the latest technologies being practiced in HVAC industries through seminars and interactive workshops. The visit to the exhibition was of great use to the students where they experienced and understood the latest trends being followed in HVAC industries. Total 25 students (UG and PG) were accompanied by Prof. A. M. Andhare and Prof. S. S. Deshmukh

## BASIC SCIENCES

### DEPARTMENT OF HUMANITIES

- Dr. V.H. Asudani authored a book titled, Cheque book (and other stories), English translation of Sindhi story book by Vasdev Mohi published by White Falcon, Chandigarh, 2016 ISBN-978-1943851-70-6.
- Dr V H Asudani authored a book titled Made of Ice English translation of Sahitya Akademi Award Winning Collection of Poems by Vasdev Mohi published by Sahitya Akademi, New Delhi (2016) ISBN-978-81-260-4713-0.
- Dr V H Asudani was invited as the Chief Guest at JUNOON event of Prerna 8, the annual event of the NSS Unit of the college
- Dr V H Asudani was invited as a guest to the farewell function for Std XII th students of Baba Nanak Sindhi Hindi High School and Junior College, Nagpur
- Dr V H Asudani was invited as the keynote speaker in the programme on 'Skills development' at Wainganga College of Engineering and Management, Nagpur on 8th January, 2016
- Dr V H Asudani was invited to deliver a guest lecture on Humanitarian Engineering in Faculty Development Programme by Rasoni Academy of Human Excellence, Nagpur on 11th February 2016.
- Dr V H Asudani was invited to deliver a guest lecture on 'Women Empowerment' at Women's College of Management, Bhopal on 5th March 2016
- Dr V H Asudani chaired a session in a three-day International Conference on Global Warming and Education organized at Indira Gandhi National Tribal University, Amarkantak from 8th-10th March, 2016
- Dr V H Asudani presented a paper entitled 'Impact-Education' in 3 day International Conference on Global Warming and Education organized at Indira Gandhi National Tribal University, Amarkantak from 8th-10th March, 2016
- Dr V H Asudani was invited to preside over Two Day State Level Art, Literature and Industry Convention for Differently-abled People organized by Ministry of Social Justice, Government of Maharashtra at Nagpur on 26th and 27th March, 2016
- Dr MR Seth, Ms Naina Jagyasi and Dr VH Asudani jointly published a paper entitled Use of Internet and E-Shopping in Vol 5, January 2016 issue of International Journal of Science Technology and Management
- Dr. M. R. Seth was felicitated by University Women's Association of Nagpur for being awarded PhD by RTMNU. She also became a life member of the association.
- A research paper authored by Pratishruti S. Singh, entitled 'Voyaging The World of Comics and Cartoons to Understand the Shakespearean Fool: An Innovative way of Teaching-Learning Shakespeare', was published in Volume 4, Issue 1, 2016, Pg No 124-127, in Research Journal of English Language and Literature (RJELAL), A Peer Reviewed (Refereed) International Journal, Impact Factor: 4.26, ISSN No. 2395-2636 (Print) 2321-3103 (Online)
- Ms. Pratishruti S Singh presented a paper entitled, 'Theorizing 'Cooperation' for Realizing Gandhian Vision of Making the World Liveable' at Two Days Second UGC Sponsored Interdisciplinary International Conference

on "Be the Change You Want To See In the World": Mahtama Gandhi (29th & 30th January, 2016) Organized by Gandhi Study Centre, New Arts, Commerce & Science College, Wardha, Maharashtra (India). The paper was published in conference proceeding bearing ISBN No.- 978-93-85882-06-7

- Ms Pratishruti S Singh edited the book entitled 'The Instant Receipt to Happiness' (Kindle Edition), authored by Satyam Singh, a student of 6th Semester, IT branch and sold by Amazon Digital Services, Inc
- Ms Pratishruti S Singh was invited as a panelist to WAD-2016 on 6/1/2016
- Ms Pratishruti S. Singh was invited as a judge to 'Yuvarang, Inter-collegiate Cultural Competition' organized by Rashtrasant Tukdoji Maharaj Nagpur University from 25th -27th February 2016 to judge the events of Western Solo and western Group singing competitions
- Ms Pratishruti S Singh was invited as a panellist to WAD for MCA- 2016 on 11th March 2016

- Ms Pratishruti S Singh was invited as the judge for the event 'Orator of the Year, Prerna 8' held on 13th February, 2016
- A research paper was published by Ms Rebecca Khemani, entitled 'A Comparative Study on Gender Difference in Attempted Suicide on the Basis of Personality Traits, Emotional Maturity and Depression' in the E-Journal, The Criterion: An International Journal (IJSER) with impact factor:3 and bearing ISSN no. 2229-5518
- Ms. Rebecca Khemani presented a paper entitled, 'You are as Healthy as You Think' at Two Days Second UGC Sponsored Interdisciplinary International Conference on "Be the Change You Want To See In the World": Mahtama Gandhi (29th & 30th January, 2016) Organized by Gandhi Study Centre, New Arts, Commerce & Science College, Wardha, Maharashtra (India). The paper was published in conference proceeding bearing ISBN No. 978-93-85882-06-7
- Ms Rebecca Khemani was invited as a panellist to WAD for MCA- 2016 on 11/3/2016



REEF's 4th Annual Installation Ceremony

**Shri 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 :



Green Ambassadors of REEF at REEF's fourth Installation Ceremony

On 25th February 2016 REEF's 4th installation ceremony was conducted in EN auditorium. The occasion was graced by Dr. Rohan Chakravarty, an environment cartoonist by profession; Dr S.D. Mohgaonkar (Dean - Second Shift); Dr. V.H. Asudani, HOD, Humanities Dept; REEF's Mentor Faculty - Dr. Deepshikha Mehra, parents, teachers, and students.



The traditional lamp lighting  
by the Chief Guest Dr. Rohan Chakravarty



REEFians performing Street Play  
"Ab toh maan ja... Jaanlewa hai Manjha"

The ceremony began with the lighting of the traditional lamp and sapling plantation by the Chief Guest. Dr. Deepshikha Mehra then introduced the new gold core and silver core members. Certificates and badges were presented to them. Lifetime awards to the active alumni of REEF along with long serving REEFians and special awards to the most promising REEFians were also given. A presentation on REEF's Annual Report was then given by Rohan Dekate and Nilu Pandey. It was followed by an informal presentation by Aaditya Somani and Nihal Reddy on aspects like how REEF has helped to develop

the skills and personality of REEF members to become better human beings and more environmentally conscious individuals and how in small ways each one of us can create a difference. Parents also shared how REEF has brought change in their children's lives.

The street play "Ab toh Manja, jaanlewa hai manjha" was also performed for the parents and guests. As part of the concluding session, the Chief Guest Mr. Rohan Chakravarty gave a presentation on his cartoons that are a satire on the depleting condition of the environment and failed policies. He also spoke on the need for protecting and conserving environment. Dr. Chakravarty also encouraged REEFians to keep up the work they were doing. The ceremony concluded with a vote of thanks by Vishakha Jaiswal, Coordinator of the installation. Refreshments were served and feedback was taken from parents on the event.

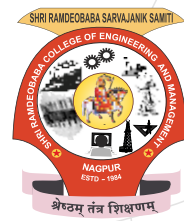
**Street Play: "Ab toh Maan ja...  
Jaanlewa hai Manjha!"**



REEFians performing the street play in the college campus



REEFians performing the street play at Poonam Chambers



**Street Play Competition - JAAGAR** : On 27th February 2016, REEF members participated in a city level street play competition organized by Rotary Club of Nagpur North Hills in association with Art Planet. They presented the street play 'Ab toh maan ja...Jaan leva ha Manjha' and secured first prize in the second category under the theme 'Nylon Manjha'. Radhika Kale, Nilu Pandey, Nihal Reddy, Sonal Jaiswal, Rohan Dekate, Raksha Mahajan, Srushti Mehatkar, Rohit Hazare, and Omkar Kekre were part of the competition.



REEFians performing the street play in JAAGAR



REEFian Radhika Kale accepting the award on behalf of the winning REEF team by the competition judges

**Manjha Removal :**



REEFians with the Manjha collected at Rajbhavan

Even after the day of Makar Sankrant (14th January) the menace of manjha continues as it loosely hangs on tree branches, electric wires, poles, on the roads and in water bodies. It continues to pose a threat to humans and animals, especially to birds as it causes permanent damage to their wings, legs and other body parts. Many a times it's fatal. In order to sensitize citizens on the menace of nylon manjha, REEFians presented a street play titled 'Ab Toh Maan Ja...Jaanleva Hai Manjha'.

The play was staged in the college premises of RCOEM and Poonam Chambers on 23rd January and in Maharajhbagh Zoo on 24th January. Through the play, the students showed that nylon manjha is indestructible owing to its non-biodegradable nature and how humans and birds are affected by it. Dean (2nd Shift) of RCOEM, Dr. S.D. Mohgaonkar, faculty members of RCOEM, students and eminent bird conservationists like Nitin Marathe, Avinash Londhe, and Ashish Tiwari were present to watch this play in RCOEM campus. Radhika Kale was the overall co-ordinator and Director of the play. Nilu Pandey, Utkarsh Singhai, Nihal Reddy, Rohit Hazare, Raksha Mahajan, Rohan Dekate,

Sonal Jaiswal, Omkar Kekre, Srushti Mehatkar, Radhika Kale, Aditya Khedkar, Purvashree Waldey, Smita Sreeram, Shubhalaxmi Joshi, Pratyaksha Jha, Udayann Dayanand, Daniyah Ammarah and Ojaswara Pathak contributed in the play by scripting it or acting in it.



REEFians performing street play at Maharajh Bagh



REEFians removing entangled Manjha from the trees at Rajbhavan premises after Makar Sankranti

Every year after the festival of kites -Makar Sankrant, REEF members take the initiative of removing nylon threads used for kite flying from the trees in Raj Bhavan. The traditional cotton kite threads have been replaced with the abrasive nylon strings that get entangled into the trees and act as a deadly web for birds that fly past them without noticing it. These are non-biodegradable, thus remain on the trees for long. REEFians, concerned about this danger, removed the manjha from the premises of Rajbhavan with the help of the authorities in order to maintain the green paradise for birds. This activity was conducted on 31st January and 2nd February 2016 where REEFians went to Rajbhavan according to their slots and removed manjha from the trees along the nature trail and in the deep woods. This was coordinated by Rohit Hazare and Ashish Chandan.

**Earth Hour Exhibition**



Dr. Deepshikha Mehra and REEFians during Earth Hour Exhibition in college campus

Earth Hour is a worldwide grassroots movement uniting people to protect the planet. It is organized by WWF and focuses on spreading awareness and inspires people to make Earth a sustainable planet. REEFians on 19th March 2016 observed Earth Hour in the campus and conducted various activities throughout the day. It included:



REEFians Shivani Virulkar, Radhika Kale and Vishakha Jaiswal explaining the concept of vertical garden from reused PET bottles





Dr. Deepshikha Mehra and Dr. S. Dogra discussing the flex at Earth Hour Exhibition

- Jugaad from Kabaad':** They collected 'use and throw pens' from the campus and made some creative and decorative products like pen stands, lamps, etc.
- A workshop was also conducted on "recycling of PET bottles" by REEFian Vishakha Jaiswal in which students and teachers were taught how to reuse PET bottles to make a vertical garden. These were presented to the Principal of RCOEM as well as hung in the main garden of the college.
- A flex was put up in the college campus depicting the "red activities" which pose a threat to earth and its resource on one side and on the other side "green activities" which promote sustainable use of earth's resource. Based on these activities students and teachers were asked to judge themselves how much of their day-to-day activities are "red" or "green". Feedback from the teachers was also taken in a recycled notebook made out of discarded blank papers.
- Along with this, REEFians also collaborated with major food joints of Nagpur like Khichdiwala, Hideout, Fuel Station, Pestro's Shack etc, and asked them to support Earth Hour, by switching off their lights from 8.30 to 9.30 PM. REEFian Nilu Pandey negotiated with the food joints for this activity. REEFians also interacted with the restaurant customers present during the hour and explained why they should observe Earth Hour.



"Jugaad from Kabaad"  
Creative items made from use and throw pens

### Waste Paper Management



REEFians donating notebooks made from old assignment and journals to New Residency School, Sadar

REEFians Saket Dharmik (coordinator), Purvashree Waldey, Aditya Khedkar, Ojaswara Pathak Smita Sreeram, and Himanshu Gunde collected old assignment notebooks, journals, and blank papers from different faculty members made notebooks and notepads. The notepads were presented to the Principal, HODs and faculty members of RCOEM. The notebooks were donated to New Residency School in Sadar to underprivileged students. REEFians also interacted with Mohd. Mubin and the teachers of the school, who applauded REEF's initiative.

### Educational Trips

**Pench Tiger Reserve, Maharashtra:** REEFians Aaditya Somani, Vishakha Jaiswal, Radhika Kale and Apurva Bhiwapurkar went to Pench along with Dr Deepshikha Mehra from 19th to 20th February 2016. The highlights of the trip were the sightings of Asian Paradise Flycatcher, Malabar Pied Hornbill, Emerald Dove, Scaly Breasted Woodpecker, Streak Throated Woodpecker, Jackal and a Tiger.



A group of 28 REEFians along with the mentor faculty, Dr. Deepshikha Mehra visited Satpuda National Park as a part of the annual educational trip from 23rd to 27th March 2016. The trip included night safari of buffer zone, nature walk in the core area and boat ride to explore the flora and fauna of Satpuda National Park and Tiger Reserve. 92 bird species along with mammals were sighted. The highlights of the trip were the sighting of rare birds like Indian Skimmer, River Lapwing, Common Redshank, Peregrine Falcon, Egyptian Vulture, Eurasian Spoonbill and mammals like Leopard, Malabar Giant Squirrel, Sloth Bear, Small Indian Civet, and Crocodile. The trip turned out to be knowledgeable and informative. The following REEFians visited Satpuda Tiger reserve- Dr Deepshikha Mehra, Vatsalya Mathur, Aaditya Somani, Vishakha Jaiswal, Radhika Kale, Ashish Chandan, Apurva Bhiwapurkar, Rohan Dekate, Omkar Kekre, Srushti Mehatkar, Rohit Hazare, Bhagyashree Girhe, Harjot

### Satpuda National Park And Tiger Reserve



Singh Kahai, Madhulika Dolke, Mayank Bagadia, Mayuri Kotian, Monali Daburkar, Akashdeep Singh, Purvashree Waldey, Udayann Dayanand, Atharva Mangrulkar, Anshul Sanghi, Ojaswara Pathak, Saket Dharmik, Gauri Chandak, Aditya Khedkar, and Himanshu Gunde. The trip was handled by Wild Ventures, a wildlife adventure agency from Nagpur.

### Waterfowl Census



To carry out a scientific study the number of winter migratory birds migrating to Vidarbha region, the Forest Department, Bombay Natural History Society (BNHS) and Birds of Vidarbha had jointly conducted the Waterfowl Census in two phases - 20th of December 2015 and 10th of January 2016. REEFians participated in both the phases. Six teams participated in the second phase.

In the second phase of the census, teams were led by Omkar Kekre, Rohan Dekate, Mayuri Kotian, Harjot Singh Kahai, Srushti Mehatkar and Rohit Hazare. Monali Daburkar, Purvashree Waldey, Vishakha Jaiswal, Radhika Kale, Nidhi Khadka, Apurva Bhiwapurkar, Mayuri Kotian, Atharva Mangrulkar, Ojaswara Pathak and Himanshu Gunde were present for the Waterfowl Census. A good number of waterfowl species were spotted. The locations covered during the census were Wena lake, MIHAN, Koradi, Ambazari Lake, Gorewada Lake, Police Line Takli and Agroforestry.

### Seminar at India Peace Center, Nagpur



REEF members with Mr. Bikram Grewal



Dr. Deepshikha Mehra with the speaker and other members who attended the seminar at India Peace Centre, Nagpur

On 30th January 2016, REEFians Srushti Mehatkar, Rohit Hazare, Madhulika Dolke, Omkar Kekre, Nihal Reddy along with Dr. Deepshikha Mehra and REEF alumnus Supriya Kawadkar attended a seminar in India Peace Center, Nagpur. The key note speakers of the seminar were Bikram Grewal and Prerna Bindra. Mr Grewal in his seminar talked about the history of ornithology, its origins in ancient mythology, the Vedic era, the Mughal era and its journey since time immemorial. Ms. Bindra enlightened the audience about threats to wildlife with special reference to tiger corridors and role of development in breaking these corridors. She also shared her experience as a conservationist and encouraged others to contribute in their own capacity.

### 10th Annual Nagpur Bird Race, 2016



Winning team Rohit Hazare (Team Leader), Adyant Lilhare, Utkarsh Singhai and Nihal Reddy at 10th Annual Bird Race 2016

The Hong Kong and Shanghai Banking Corporation Limited (HSBC) and Yuhina Eco-Media along with Wild-CER (Society for Wildlife Conservation, Education and Research) had organised Nagpur Bird Race on 7th February 2016. 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 stressed on their role in our ecosystem.

### The REEFians participated in two teams, namely

- Pied Falconet, led by Rohit Hazare. The members of the team included Utkarsh Singhai, Adyant Lilhare and Atharva Mangrulkar.

- Collared Kingfisher, led by Supriya Kawadkar. The members of the team included Rohan Dekate, Udayann Dayanand, and Himanshu Gunde.
- Pied Falconet won the bird race by identifying 145 species in a single day beating the team in second place by a close 3 species.

### GBBC

#### (Great Backyard Bird Count) 2016

The Great Backyard Bird Count is an initiative by eBird, where bird watchers of all ages count birds to create a real time snap shot of where birds are. In 2016, the total checklists submitted to eBird were 162,052 including 5,689 species and total number of individual birds counted were 18,637,874. Dr. Deepshikha Mehra conducted the count of RCOEM on 12th and 13th February. REEFians participated in this event on the 14th and 15th of February 2016. On both days birding was done for two hours. A good number of species were spotted in and around the RCOEM campus. Dr Deepshikha Mehra, Omkar Kekre, Srushti Mehatkar, Rohit Hazare, Madhulika Dolke, Rishika Agrawal, Harjot Singh Kahai, Nidhi Khadka, Purvashree Waldey, Udayann Dayaanand, Ojaswara Pathak, Smita Sreeram, Raksha Mahajan, Mayuri Kotian, Himanshu Gunde, Utkarsh Singhai, and Saket Dharmik participated in GBBC.

### Bird Watching and Awareness Session with CPS, Dhabha Students

On 28th February and 6th March 2016 a birding trip was organized for the students of Center Point School Dhabha to Gorewada Biodiversity Park. In the introductory birding session, REEFians taught the kids the basics of bird watching and helped them to identify common birds to make it easy for them to understand. Informative and interactive games were also played with them to make them understand about bird behaviour and ecology. REEFians Omkar Kekre, Srushti Mehatkar, Rohit Hazare, Rohan Dekate, Harjot Singh Kahai, Madhulika Dolke, Raksha Mahajan, Himanshu Gunde, Purvashree Waldey, Nihal Reddy, Udayann Dayanand, Smita Sreeram, Saket Dharmik, Nidhi Khadka, Supriya Kawadkar, Vishakha Jaiswal, Radhika Kale, Mayuri Kotian,

Utkarsh Singhai and Ojaswara Pathak were accompanied by Dr Deepshikha Mehra for this birding session.



School children of CPS Dhabha, their parents and teachers along with REEFians during birdwatching and awareness session at Gorewada National Park

### All General Meet (AGM)



All REEFians attending Annual General Meeting at Balsadan, Nagpur

Annual General Meet (AGM) was organised on 17th January 2016 coordinated by Vishakha Jaiswal and Rohan Dekate. All the REEF members were guided by the mentor faculty Dr. Deepshikha Mehra about the aims and objectives of REEF. The domain heads and coordinators discussed the future course of action with other REEF members.

Also the activities and initiatives that were successfully completed last year were discussed. New REEFians were rewarded with stars as a token of appreciation regarding their consistency, dedication, hard work, and good performance in various activities held in the year 2015.

### Herbarium

A meeting of this domain was held on 31st January 2016 and further procedure and ideas were discussed with REEFians. The campus was divided into 6 different blocks. Each block was assigned to a group of four REEFians. These are being monitored regularly on various parameters.

### Community Service

REEF members have been imparting free education to underprivileged kids at Balgram, Nagpur from April 2012. This initiative taken in 2012 is now a full functioning domain led by REEFians Vishakha Jaiswal, Sneha Wilson and Bhagyashree Girhe.



REEFians Vishakha Jaiswal, Nidhi Khadka, Smita Sreeram, Purvashree Waldey, Akashdeep Singh Bhatia and Aditya Khedkar explaining personal hygiene to the kids

Another aspect of lifelong learning taken up was teaching the students topics of their syllabus through activities. Omkar Kekre led one such interactive activity which was meant to teach the kids about the basics of Parliamentary Affairs and how the electoral process works.



REEFian Omkar Kekre explaining parliamentary activities to the kids through an Interactive Session

REEF's long term objective with the Balgram students is also to sensitize them towards environment. Thus, students of Balgram were involved in REEF activities such as the Manjha Awareness Campaign where they were a part of the street play. REEF also asked them to draw what they would like to improve in their vicinity in terms of environment

### Wireless Camera Trap



Camera Trap Project made by REEFians

REEFians Aaditya Somani, Vishakha Jaiswal and Radhika Kale, Final Year students of Electronics Engineering Department under the guidance of Dr. Deepshikha Mehra collaborated and completed their Final Year project with their project guide from EN department Mr Mayank Thacker and team member Shatabdi Roy on Wireless Camera Trap. The need for environment conservation has been felt for long but the technology for its conservation has not been easily forthcoming. This project was a small step towards the larger goal of innovation for conservation. Its objective was to bring a change in wildlife monitoring in general and camera trap in particular. This has been the first time in RCOEM that a technical and a non-technical department have collaborated on a project, i.e. Dept. of Electronics and Dept. of Humanities.

## DEPARTMENT OF MATHEMATICS

Prof. B R Chide delivered a guest lecture on "Curve tracing" at Dr. Babasaheb Ambedkar College of Engineering and Research, Nagpur, on 29 March 2016.



## DEPARTMENT OF PHYSICAL EDUCATION

### STUDENTS' ACCOMPLISHMENTS

RCOEM won the overall championship in Udaan 16- the invitational intercollegiate tournament for engineering colleges by winning Football, Table Tennis (M), Chess (W), Basketball (M&W) and Volleyball (W) matches.

### BEYOND ACADEMICS

- Sports Cup Annual Athletic Meet was organized on 8th and 9th Feb 2016. All branch students and faculty participated enthusiastically to make the event successful.
- Inter branch Cricket boys and girls was organized in which Civil were winners in boys category and IT in Girls category.
- Inter branch Football Final (M) was won by Electronics Engineering.
- Inter branch Volleyball Final (M) was won by EP branch

### NSS

- **Seminar on Traffic- Awareness:** The police department and the NSS unit organized a one day seminar on traffic awareness for the First year students in RCOEM on 7th Jan 2016.
- **Ramkatha:** The Ramkatha conducted by RCOEM from 11-18 January 2016 fulfilled its objective in instilling faith of people in religion, good work and fellow people. The atmosphere during this period was pious and serene. More than 250 volunteers of the NSS and SRC group took painstaking efforts to make this event a successful endeavour.
- **Republic Day celebration**
  - **Old-Garment Distribution:** On 5th Feb 2016 the NSS unit donated clothes to the needy and poor

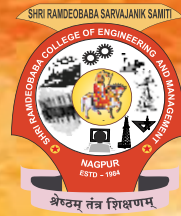
people. As it is an effective way for giving back to the society and also small initiative to spread happiness. This discourages wastage of resources and also supports the needy

- **Prerna 8.0 :** NSS unit of RCOEM conducted its annual event Prerna 6.0, a four daylong event from 15th to 18th Feb 2016. The main aim of this programme was to create social awareness among technocrats by the means of various inter-collegiate competitive events and guest lectures by eminent personalities. The following activities took place:

- Orator of the year- where the participants immersed themselves in spinning a web of words to catch the interest of the audience, on the topics given to them ten minutes before their speech.
- Junoon-Succeed against all odds: This event was to showcase the talent of specially abled children. The word "Junoon" itself means passion.
- Brain-Teaser- This was an event where the participating teams were given witty questions and puzzles to solve. This was basically a fun filled event which was enjoyed by all the participating team members. The event was a huge success with more than 100 teams participating.
- Blood-Donation- The second day glided by with the successful organization of a Mega Blood Donation Camp, held in collaboration with 'Dr Hedgewar Blood Bank' gaining a healthy response from the students and teachers
- Health check-up and cleanliness drive: The event took place in a village called Anjangaon near Nagpur. Around 250 villagers took part in the event and got benefited. The team had a dentist, Gyanic, and eye specialist. The cleanliness drive was held in parallel with the health checkup.



## POST GRADUATE PROGRAMMES



## DEPARTMENT OF MANAGEMENT TECHNOLOGY

### FACULTY CORNER

The Following papers were presented in 'MICON 2016', an International conference on 7th - 9th January 2016 (ISSN : 2347 - 9558):

- Dr. (Mrs) N. V. Shah presented on "The Effect of Technology Change on Product Life Cycle: A Study in a Manufacturing Unit"
- Dr. Abhijeet Agashe presented on "Financial Inclusion in India: Need of the Hour and the Way Ahead"
- Dr. Chandan Vichoray presented on "A Study of Effect of In-Store Promotions by Branded Apparel stores on Impulse Buying Behavior: A Study with reference to Consumers in Non-Metro Cities in Maharashtra".
- Dr. Rajiv Khaire presented on "Analytical Study to understand the job characteristics approaches and its impact on motivation of Employee Working in private GSM Telecom Companies operating in Vidarbha Region".
- Dr. Gayathri Band presented on "The consumer Choice: SUV Over Sedan"
- Dr. Anup Ranade presented on "Evaluation of Agriculture Advances of SBI (2012-14)"
- Dr. Sunita Dhote presented on "Corporate Social Responsibility: A Case Study of HDFC Bank"
- Prof. Pritam Bhadade and Prof. Shravan Chandak presented on "A Study on Role of Colors in Shaping Brand Personality"
- Dr. Kanchan Naidu presented on "Analysis of different call options to minimize risk"
- Dr. Bhagayashree Bhakane, Prof. Poonam Rathi, and Prof. Rujuta Joshi presented on "A Proposed Model For Communicating Employer Branding for SMEs".

### STUDENTS' ACCOMPLISHMENTS

- Tejas Asre of VI Semester MAM won the 1st prize in Quiz-a-tete, a business quiz competition conducted by IMT-Nagpur, in association with QuizWiser on 30 January, 2016
- Madhur Shetye, Anuja Dekapurwar, and Ashwini Rabde were 1st VNIT- Business Plan winners, conducted on 23rd and 24th Jan 2016 Consortium on "Kaizan a change for better- providing eco-friendly solutions for start-ups on issues related to energy, environment and efficiency."
- Madhur Shette and Shilpa Nikos were the winners of elocution competition on topic "Nagpur Metro, transforming Nagpur" conducted by Department of Management Technology in association with Nagpur Metro Rail Corporation Ltd., on 6th February 2016.
- Poonam Mishra of MBA secured "Most Confident" position in "Why should I Hire you" at Edudition 2016 on 24th and 25th February 2016 conducted by Tirpude Institute of Management Studies.
- Priya Bijapurkar and Shirin Chimthanwala of IV Semester MAM were the 1st winners of the Poster Making Competition.
- MBA II Semester team of DMT, Jyoti Singh, Pooja Agarwal, and Nupur Chauhan were the 3rd winners of poster making competition.

### CAPACITY BUILDING ACTIVITIES

#### DMT organized Industrial Motivation Campaign

- The Department of Management Technology organized industrial motivation campaign in association with MSME Development Institute of Nagpur. The students from various Engineering Branches and Management Department (MBA & MAM) participated in the event. Dr. Neeta V. Shah Head-DMT addressed the student with opening remark continued with first session on start-up financing, conducted by CA Ninad Nandgaokar, followed by session on various schemes of Government of India like Mudra loan for start-ups conducted by Mr. Ratnakar Sonkusare, Chief

Manager and Mr. Shrikant Belokar, Relationship Manager of Bank of Maharashtra, finally Ms. Parineeta Pandhram, Asst. Director, MSME Development Institute address students regarding schemes of MDI for the startups. Dr. Sunita Dhote co-ordinated the event.

- Department of Management Technology organized an elocution competition in association with the Nagpur Metro Rail Corporation Limited on 6th February 2016. The topic of the elocution is "Nagpur Metro, transforming Nagpur". Dr. Sunita Dhote co-ordinated the event.

## DEPARTMENT OF COMPUTER APPLICATIONS

### FACULTY CORNER

- Prof. Satyajit S. Uparkar and Prof. Pranali R. Dandekar presented a paper, "Identification of Influencers in Social Networking site using Graph Database" and **received best paper presentation award** at TEchEd-16, 2nd annual international conference organized by Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur, 22nd -23rd January, 2016.
- Prof. Satyajit S. Uparkar presented a paper, "Application of Self Organizing Map using MATLAB" at International Conference on Medical Informatics ICMI-2016 organized by Department of Radiation Oncology, AIIMS, Bhubaneswar, 26th-28th February 2016.
- Prof. Satyajit S. Uparkar also delivered a session on "Basics of Engineering Mathematics using MATLAB, fundamental of Matrices, Transformation and Graphical Representation", in Two Days workshop on "Basics of MATLAB and its application for Engineering Problems" organized by Priyadarshini College of Engineering, Nagpur. Dated 18th -19th January 2016.
- Prof. Punam Khandar, Prof. Mohini Upasani and Prof. Pranali Dandekar presented three papers "Improved Association Rule Mining with Positive and Negative Integration", "General Structure Design for Fast Image Processing Algorithms Based upon FPGA DSP Slice" and "Histogram: An Approach towards image Retrieval" in

International Conference on Research and Recent Trends in Engg. and Tech. on 18-19 Jan 2016 organized by Sai Poly College, Kinhi Jawade, Yavatmal. These were published in the International Journal on Recent and Innovation Trends in Computing and Communication, Volume: 4 Issue: 1, ISSN: 2321-8169.

- Prof. Pravin Karmore delivered seminar on "Programming in C Language" at Engineer's English School and Junior College, Kukde Layout, Nagpur on 27th Feb 2016.
- Prof. Punam Khandar presented papers "Improving Music Recommendation: Content Based Approach" and "Audio Fingerprinting System: An Approach " in International Conference on Modern Trends in Engineering, Science and Technology on 9th and 10th April 2016 organised by Vishwatmak Om Gurudev College of Engineering, Shahpur, Thane (Dist).
- Prof. Abhishek P. Nachankar presented paper on "Analysis of Attentive Dynamic Load Balancing Algorithm to Improve the Performance of Distributed Systems", organized by R K R Engineering College, Bhimavaram, Andhra Pradesh on 27-28 Feb 2016.

### CAPACITY BUILDING ACTIVITIES

- A three day workshop on aptitude development was conducted for the students by the department of computer application from 9th to 11th March 2016. Dr. Preeti Voditel, convener of MCA WAD'16 and Head, Department of Computer Application stated the importance of personality development for students and also briefed them about the various events to be conducted in MCA WAD'16. Various events like aptitude tests, Extempore, Create an Ad etc were conducted. Sessions on various topics like Effective Public Speaking, PI Techniques, Resume Writing, Group Discussion Techniques, Vedic Mathematics, Competitive English and Effective Public Speaking were conducted by invited experts. On the concluding day of the workshop HR experts were called from various companies to judge the preparation of participants in terms of facing personal interviews in companies and performing group discussions on random topics. The valedictory function was held on the last day of the workshop, on 11th March 2016 at 5.00 p.m.



Dr. Preeti Voditel delivering the inaugural address to the students



Mr. Javed Khan Rana delivering a session on Effective Public Speaking



Ms Beena Mathews delivering a session on Competitive English and Effective Public Speaking



HR Expert from company conducting GD/PI session

- Expert lecture was organized on "Google Adwords" by Mr. Rahul Joshi, Business Operation Analyst, Accenture India Limited, Hyderabad on 23rd March 2016 for second year as well as first year MCA students. Lecture was coordinated by Prof. A. Thakare, Prof. K. Roy, Prof K. Peshwani, and Prof. M. Vairalkar.
- 134 students of MCA final Year of session 2015-16 were placed for Internship program in various IT companies like Siemens Technology and Services Pvt. Ltd., Capgemini Consulting India Pvt. Ltd., Kratin Software solutions Pvt. Ltd, KloudData Pvt. Ltd, Kizora Software Pvt. Ltd., SmartData Enterprises Pvt. Ltd, Novatech Software Pvt. Ltd., MOIL Ltd, and Swarna Pragati Housing Microfinance Pvt. Ltd. etc. Internship drives were conducted by the Department of Computer Application in December and January. Drives were arranged and coordinated by Prof. A. Thakare, Prof. K. Roy, and Prof K. Peshwani.
- The Department of Computer Application had organized a workshop on "Android and Mobile Application", in collaboration Kratin solutions Pvt. Ltd. Nagpur on 31st January 2016. Kratin is a technology solution provider company, specialized in healthcare focusing mobile as a primary technology stack. It has clients in USA, Europe and Israel. The workshop was targeted for second year students. Mr. Satin Katiyar, CEO Kratin solutions Pvt. Ltd. explained the importance and career opportunities with Android App development in today's smart world. He then made a group of students and every group was assigned a unique Android Application. Every group demonstrated the importance of the application with the help of a skit. Mr. Satin Katiyar and his team executed the workshop successfully. Workshop was coordinated by Prof. Abhijeet R. Thakare, Prof Kaushik Roy and Prof. K. Peshwani.



Student Interaction with Mr. Satin Katiyar, CEO, Kratin solutions



Skit Performance in workshop on Android and Mobile Application

- The department had also organized a workshop on "Google Ad words" on 23rd March 2016. Mr. R. Joshi, Business operation Analyst, Accenture, Hyderabad addressed 86 Students of MCA, Sem- II and IV. He explained Google's advertising system. Prof. A. Thakare, Prof. M. Vairalkar and Prof. K. Peshwani coordinated the event.



## TRAINING AND PLACEMENT DEPARTMENT

In this quarter, the Department organized a campus drive where the following companies were visited the campus and gave offers to the students of RCOEM :

Date	Name of the Company	No. of offers
14-Jan-2016	TPG Consuting	1
16-Jan-2016	Future Supply Chain	11
30-Jan-2016	Global Logic	3
01-Feb-2016	Simens	7
03-Feb-2016	L & T Technology	14
01-Mar-2016	Phronesis	1
29-Mar-2016	Infocepts Project Selection	21

### • Alumni Connect Program by Accenture

Accenture conducted Alumni Connect Program on 23rd March 16. During the program, third year engineering students interacted with college alumni working in Accenture and got opportunity to get career guidance from the successful alumni. Various events such as Tree plantation and Fun Run were conducted by Accenture on this occasion.



### • Placement Officers Meet

In order to further increase placements and build strong linkage with industries, Prof. S. R. Kulkarni from Mechanical Engineering Department attended Placement Officers meet on 29th March 2016 at Wipro Pune.

### • Infosys Spark Function

Three faculty members, one from EN, EC and IT Departments, Prof. Reena Rahate, Prof Gauri Morankar and Prof. Purshottam Asudani along with 64 students of our college attended academia interaction program named "SPARK", conducted by Infosys Pune on 23rd March 2016.

### • Training on Java by ITC Infotech

ITC Infotech conducted Java training from 6th February 2016 up to six consecutive weekends for students offered by ITC Infotech.

**BEYOND ACADEMICS****IEEE Bombay Section Skill and Knowledge Enhancement Programme (SKEP)**

- Skill and Knowledge Enhancement Programme (SKEP) of IEEE Bombay Section is an IEEE region 10 Professional Activity, which was organized on 15th and 16th January 2016.
- Main goals of SKEP include professional skills development, imparting technical expertise to develop viable applications, disseminating useful knowledge from current fields of interest to the beneficiaries and inculcating technical and logical thinking among the student community. SKEP sessions were conducted by invited experts on the state-of-the-art topics from among the research, academic and industrial areas. The intended audience were students, faculty and IEEE members. On 15th January speaker were Dr. Narendra Bawane from S. B. Jain Institute of Technology, Management and Research, Nagpur and Anand Khobragade, Senior Scientist from Maharashtra Remote Sensing Applications Centre, Nagpur. They delivered lecture respectively on Speech processing and neural networks and Machine learning and satellite image processing.



- On 16th January speaker were B. Satyanarayana from Tata Institute of Fundamental Research (TIFR), Mumbai and Mrs. Ashwini Kotrashetti from Don Bosco Institute of Technology, Mumbai. They delivered lecture respectively on Trends and Technologies of VLSI devices and Smart Cellular Handset Antennas. Professionals are expected to benefit from this continuing education and skill upgradation programme. In addition, this program seeks to motivate and inspire the young student community and endow them with a rare insight into what the industry has to offer and its expectations, thus helping them ease their entry into corporate life.

**IEEE Bombay Section Branch Counselors' and Students Chair Meet**

IEEE Branch Counselors' and students chair Meet for the Nagpur region was organized on 5th March 2016 at the College. Prof. Kiran Talele, student activity chair of IEEE Bombay Section and Mr. Gandhar Suryavanshi, the young professional member of IEEE Bombay Section presided over the meeting. The IEEE Branch Counselors

and representatives of various colleges were present at the meeting, the agenda of which was to strengthen local IEEE network and discuss matter related to Student Branch formation and smooth functioning of the same. The Counselors deliberated over ways to accelerate IEEE activities in and around Nagpur. Prof. K. Talele pointed out the importance of forming a local network under IEEE so that the various student branches can support each

other. The representatives of the branches were introduced. He also motivated the present members to be part of WIE (Woman in Engineering) which included technical workshop, managerial planning and humanitarian projects. To make IEEE renowned, supervision and constant work is required. The topics included by the dignitaries in their lectures were:

1. Dynamic role of branch counselor in making IEEE student branch vibrant by Prof. K. Talele
2. Effective planning and organizing student centric technical events by Dr. R. R. Khandelwal.
3. Opportunities for Students Branches by Mr. G. Suryavanshi
4. Internship and entrepreneurship development by Prof. K. Talele
5. Demonstration of Online Tools by Prof. K. Talele and Mr. G. Suryavanshi

- Also the presentation of achievements by each IEEE Student Branches was presented by office bearers of respective branches. The event was highly interactive and was a direct communication between section and student branches.

- In the final segment of the meeting, certificate of participation was distributed to the participants.
- Akansha conducted the proceedings and Student Chair Bhavesh Chordiya proposed the vote of thanks. Student Coordinators Bhavesh Chordiya (Chair), Kritika Joshi (Treasurer), Prerana Shrivastava (Joint Secretary), Simran, Surbhi, Swapnil, Vinay, Pratik, Faiyaz, Santosh, Tanmay, Sumedh, and Aditya coordinated the event successfully.



- Guest lecture by eminent speaker Dr. Durga Mishra (Lecturer of IEEE Electron Devices Society (EDS)) Professor, Department of Electrical and Computer Engineering, New Jersey, USA

The guest lecture was organized on 6th February 2016 where Dr. Mishra spoke on "More Moore or More than Moore: CMOS High-k Gate Stacks to Nanotechnology". His current research interests are in the areas of nanoelectronic / optoelectronic devices and circuits. He is currently a Distinguished Lecturer of IEEE Electron Devices Society (EDS) and serving in the IEEE EDS Board of Governors. He served as the EDS SRC Chair for North America East (Regions 1, 2, 3, and 7). He received the Thomas Collinan Award from the Dielectric Science and Technology Division of Electrochemical Society (ECS). He is also the winner of the Electronic and Photonic Division Award from ECS.

The presentation was very much enlightening, stimulating and engaging that Faculty members, UG and PG students lost all track of time. He presented the material on the new innovations in a way that everyone could understand.



**TEMPLE NEWS**

S NO	EVENT	DATE	REMARKS
1	New year	1.1.2016	Celebrated inside the temple
2	Baba ki Duj	11.1.2016	Maha arti and churma prasad distributed
3	Dashami	19.1.2016	Maha arti and prasad
4	Magh ki Badi Duj	10.2.2016	Jamma and bhajan by Shri Pankaj Upadhhaya
5	Magh ki Badi Dashmi	17.2.2016	Aarti & prasad
6	Visitor	19.2.2016	NIT Chairman Shri. Shravan Hardikar
7	Visitor	5.3.2016	MD Vikram Deshpande, Bharti Airtel
8	Mahashivratri	7.3.2016	Bhakti Sangeet by Studetn under the guidance of Shri Bhave sir
9	Baba ki Duj	10.3.2016	Maha arti and churma prasad distributed
10	Dashami	18.3.2016	Aarti and prasad
11	Holi Dahan	23.3.2016	Holi Dahan at 8:15 night
12	Holi Milan	24.3.16	Aarti and prasad
13	Every Saturday		Sunder-Kand



**RCOEM**

**Newsletter Team**

**EDITOR AND COORDINATOR**  
Dr. (Ms.) Deepshikha Mehra,  
Dept of Humanities

**NEWSLETTER DESIGNING & PRINTING**  
M/s Print Tech, Nagpur

**COMPILER AND COORDINATOR**  
Dr. (Ms.) Gayathri Band,  
Dept of Management Technology

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**Ram Katha**

Shri Ramdeobaba Sarvajani Samiti organized

11 to 18th January 2016 in the premises of Shri Ramdeobaba College of Engineering and Management.

