

REFLECTION

NEWSLETTER

OF

SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT

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LETTER FROM THE EDITOR

Dear Readers,

The second issue of REFLECTION for 2014 brings forth a quarter where various departments of the College undertook activities from April to June 2014. Like in the past this quarter included publications, conference presentations, workshops conducted and attended, sports and activities on environment conservation, and many other extra-curricular achievements.

The highlight of the quarter was WAD (Workshop on Aptitude Development), a biannual event, that brought together students from various colleges for a week to accomplish its long established goal of testing and building their aptitude. Among the many firsts that REFLECTION has accomplished, this issue for the first time features an article by students in Writers Corner'. The objective is to encourage students to share their research based articles so as to not only enhance their communication skills but also to polish their analytical and logical thinking.

Enjoy reading...

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

SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT

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Momentous Events

Workshop on Aptitude Development (WAD)



The Workshop on Aptitude Development (WAD), an eight day workshop, was inaugurated in the College on 23rd June 2014. The chief guest of the function, Dr Vinayak Deshpande, Pro VC RTMNU inaugurated the workshop. Shri Banwarilal Purohit, Chairman; Shri Govindlal Agarwal, General Secretary; Prof. Q. H. Jeevaji, Director DMT; Dr. V. S. Deshpande, Principal; Dr Rajesh Pande, Vice Principal; and Dr. Rashmi Shahu, Convener of WAD were prominently present. Over 155 delegates from all over India including delegates from USA participated in the workshop. Dr. Rashmi Shahu in her welcome speech introduced WAD and enumerated its aim which is to explore excellence within an individual in order to help him/her to achieve excellence. Dr. V. S.

Deshpande, Principal RCOEM explained the importance of overall development of student in today's environment. Dr Vinayak Deshpande, in his inaugural address, emphasized on the need for inculcating a positive attitude and also realizing that "everything lies in your hands". He also cited the examples of Dr Abdul Kalam to draw an analogy of how simple people can achieve great success in life. Shri Banwarilal Purohit stressed on simple living, high thinking and inspired the participants by quoting examples of Shri Lal Bahadur Shastri and Dr Abdul Kalam. The student Secretary, Nikhil Setia proposed the Vote of Thanks. Student Convener, Minal Jain gave the WAD 2013 report.

Writers' Corner

Vehicle Pooling: environment conservation or economic necessity? ¹

Sudip Banerjee ² and Rohan Dekate ³

We wish trees start to produce gold coins because this would be the only way to save environment. We know very well how badly the environment is getting affected due to increasing human interference or rather we should say 'destruction' and thus, its protection has become a serious issue. Still it is being neglected by humans. An issue that has been brought up frequently related to environment protection has been 'Vehicle Pooling

or sharing'. It is known that vehicle pooling saves fuel and reduces traffic. Yet pooling is not being widely adopted. Consequently it was imperative to find out the reasons why people do not want to pool? Those who do pool, are they pooling with environmental considerations in mind or have pure economic motives? With the aim to find out the answers to these questions, we conducted a pilot survey in one of the Malls of Nagpur.

¹ This article is based on a small pilot survey taken up by Sudip Banerjee, Rohan Dekate and Ashish Chandan of REEF (Ramdeobaba College Engineers for Environment Forum).

² 5th Semester student of Electrical Engineering. He is also Green Ambassador of REEF, the environment club of RCOEM.

³ 3rd Semester student of Mechanical Engineering. He is also Green Ambassador of REEF.

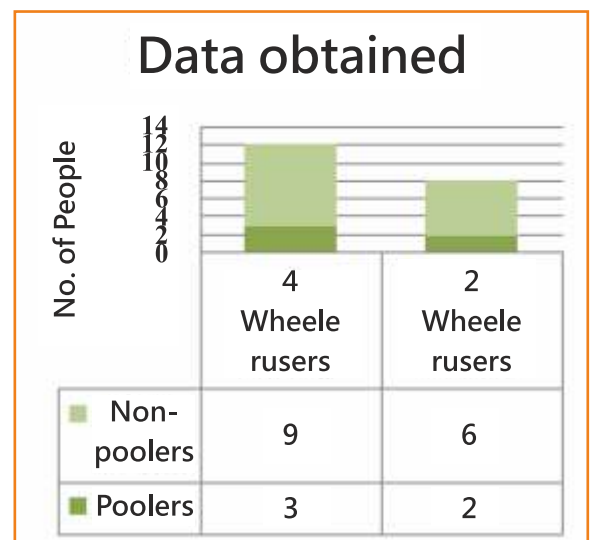
The study

In the pilot survey a small sample of 20 people (see chart 1) was randomly picked and a set of pre-defined questions on vehicle pooling were asked. The study brought out some interesting results which are only a reflection of the actual scenario on vehicle pooling. However, the results are only a reflection of what we ventured to find out. The results cannot be treated as conclusive. With the help of this pilot survey we intend to undertake a bigger research using scientific methods and a representative sample.

Results

The pooling percentage for the complete sample stood at mere 25 percent, that is, a whopping 75 percent did not pool.

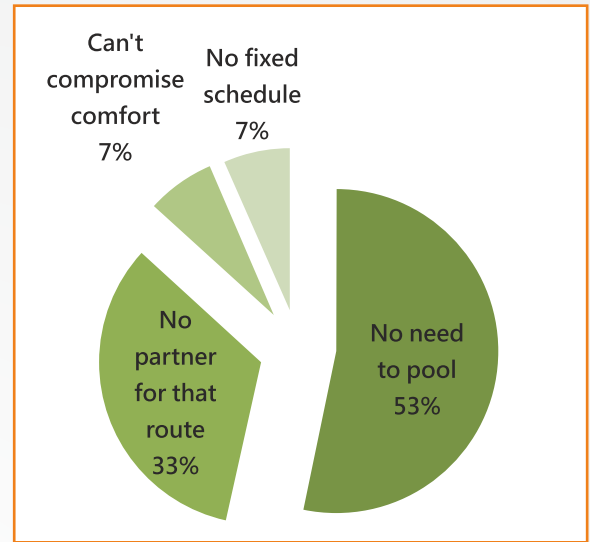
Chart -1: sample size



Reasons for not pooling

We got some interesting answers when we set out to find why people don't pool (see chart 2). A student very candidly admitted that he shares only when he falls short of money. That means, at the end of every month, he and his partner shared just to save money and not fuel. Another reason given by people was that they don't pool as they don't have a partner to pool with. We also observed that entrepreneurs and businessmen didn't feel the need to pool. All the entrepreneurs we spoke to were non-poolers and give the same reason "There is no need!" There were others who did not pool as they had no pooling partners in the route that they used. Some did not pool as they had no fixed timings. But there were others who did not want to compromise on their comforts thus did not pool. "Ego or status is a major reason why people don't pool", said one individual. Often, hierarchical differences pose as the reason of not pooling among employees of the same company. At this point, institutions play a vital role. One individual reported that his company provides a car for employees of the same locality. So, if institutions jump in and understand the need to pool, they can play a key role. Also, if public transportation is improved, it will benefit fuel saving. 'In USA, they have separate lanes for people who pool their cars. Similarly, Government should also promote such things in India', said an American-Indian tourist from New York.

Chart 2: Reasons for not pooling



Reasons for Pooling

Those who pooled were sharing the fuel prices not because environment conservation featured in their agenda but it was only to save fuel. This cleared the fact that a safe and healthy environment is the secondary need or sometimes not a need at all. The primary purpose remains money!

Lessons learnt

The lessons learnt through this survey point out that pooling, if it takes places, is only economic considerations, whether for an individual or an institution. But majority of the people do not even take it as an option. The survey, although only conducted among a small sample indicates towards the level of awareness among people. As humans it seems we have decided that environment and its protection would be lowest in our priority list. For students, environment still remains alien despite environmental studies being part of the school and college curriculum. We must understand that environment protection is a serious issue that is directly related to our lives. Whether it is extinction of rare animals, deforestation, decreasing tiger count of country, climate change or excessive

mining; it is already affecting our lives and if we continue it would affect us in the future too. The floods in Kedarnath valley, 2005 Mumbai floods are a few of the grim reminders of human misuse of nature.

We all do love to live in a clean environment but we rarely think about making a contribution to make our environment clean. It doesn't need big policies or sacrifices to contribute to environment. It just needs a change in the way of thinking and just a start. For example those who cannot find pooling partner and travel long distance can shift to two-wheelers as Four wheelers consume 2-3 times more fuel. Alternately, they can shuttle between two-wheelers and four-wheelers where they can use the two types of vehicles alternately. However, other than individuals, the government can also play an important role. The urge among individuals to save money can be used as "bait" by the government to provide protection to environment and reduce the use of vehicles. Incentives can be given by the government to those private institutions that do car pooling. This would also get added on the CSR activity of that institution. More importantly there is a need to use the mass media to create awareness among people about the need to car/vehicle pool.



Engineering

Department of CIVIL ENGINEERING

FACULTY CORNER

- Prof S. J. Modak's paper entitled "Determination of Transient vibration Response of a Portal Frame simulating short span Bridge" was published in *ELIXIER International Journal*.
- Prof. Nikita Kakwani's paper entitled "Optimal Upgrading of Water Distribution Network Redundancy." was published in *Journal of Water Resource Planning and Management*, 10.1061/ (ASCE) WR. 1943-5452.0000434, 04014043.

CAPACITY BUILDING ACTIVITIES

- A workshop on CAD software application for 2D and 3D design and drafting was organized by the Department from 1st April to 10th May 2014. It was conducted by Astral Informatics Pvt. Ltd., Nagpur for 3rd Year students and organized by Prof. H. P. Khungar and Prof. V. J. Rajurkar. Forty students of the Department participated in the workshop.

Department of COMPUTER SCIENCE ENGINEERING

FACULTY CORNER

- Prof. Vrushali Bongirwar and Prof. Ruchika Sinhal attended a two-week ISTE main workshop on "Computer Networking" under the National Mission on Education through ICT, MHRD, New Delhi, from 30th June to 5th July 2014. The workshop was transmitted live from IIT Bombay through internet (using A-View Software) at Computer Centre, Information Technology Department, YCCE, Nagpur (one of the remote centers).
- Dr. M. B. Chandak's following papers were published in various journals:
 - o Two papers - "Cluster Based Approach to Detect Effective service provided in MANET" and "An Approach for Word Sense Disambiguation using modified Naïve Bayes Classifier" in *IJIRCCCE*, 2/4, April 2014, ISSN (online) : 2320- 9890, ISSN (print) : 2320-9798
 - o "An Implementation on Detection of Trusted Service provider in Mobile Adhoc Networks" in *IJETT*, 11/2, 19th May 2014, ISSN: 2231-5381.
- "Document Clustering with Feature Selection using Dirichlet Process Mixture Model and Dirichlet

Multinomial Allocation Model" in *International Journal of Engineering Research and Applications (IJERA)*, pp.12-16, April 2014, ISSN: 2248-9622.

- Dr. A. J. Agrawal paper entitled "Information Extraction Using Discourse Analysis from" was published in *IITCS, Newswires*, 2014 ISSN: 2231 - 153X (Online), 2231 - 1939 (Print).
- Prof. Arti Karandikar's following paper were published in various journals:
 - o "Web Page Suggestion in Web Mining" in *International Journal of Engineering Research and Applications (IJERA)*, April 2014, ISSN: 2248-9622
 - o "A Review of Methods for Developing Business Rules Engine" in *IJARCCCE*, 3/3, 2014, ISSN (Online): 2278 - 1021, ISSN (Print): 2319 - 5940.
- Prof. Rashmi Welekar's following paper were published in various journals:
 - o "Handwritten Document Editor: A Review" in *IJIRCCCE*, 2/4, April 2014, ISSN (online): 2320-9801, ISSN (print) : 2320-9798.
 - o "Survey on Existing Techniques for Writer Verification" in *International Journal COMPUSOFT International*

Journal of Advanced Computer Technology Computer, 3/5, pp.773-776, May 2014, ISSN: 2320-0790.

- Prof. Mangesh R. Wanjari's paper entitled "Predictive Hot set Identification in Social Networks: Approach" was published in *IJIRCCCE*, 2/4, April 2014, ISSN (online):2320-9801, ISSN (print):2320 9798.
- Prof. Devishree Naidu's paper entitled "Implementation of Enhanced Singly Linked List Equipped with DLL Operation an Approach towards Enormous Memory Saving" was published in *International Journal of Future Computer and Communication (IJFCC)*, 3/2, pp. 98-101, April 2014, ISSN 2010-3751, ISSN: 2010-3751, available online at www.ijfcc.org.
- Prof. S.C. Tirpude's paper entitled "An Approach to Single Document Text Summarization & Simplification" was published in *IOSR Journal of Computer Engineering*, 16/3, Ver II, pp. 42-49, May-June 2014, e-ISSN:2278-0661, p-ISSN:2278-8727,DOI number 10.9790/0661-16324249.
- Prof. Ruchika Sinhal's paper entitled "A Personalized Ontology Model for Web information Retrieval by Using Ranking SVM Algorithm" was published in *IJRIT*, 2/4, pp. 726-731, April-2014, ISSN:2001-5569, IF=1.738.
- Prof. Manjusha Dhabale and Prof. Abhijit Kamune's paper entitled "Gesture Identification Based Remote Controlled Robot" was published in *IJIRCCCE*, 2/4, April 2014, ISSN (online):2320-9801, ISSN (print):2320-9798.
- Prof. Pravin Sonsare's paper entitled "Palm print Security with Hiding" was published in *IJARCSSE*, 3/4, April 2014.

STUDENTS' ACCOMPLISHMENTS

- 4th semester students brought laurels to the Department with 23 students scoring a SGPA of more than 9.00. The first ten merit list holder from shift I included Ketaki Kinage (9.91), Rashmi Jakhotiya (9.91), Sarthak Shrivastava (9.69), Rohit Nagbhidkar (9.49), Sagar Ayalani (9.33), Rashi Agrawal (9.31), Yash Mehta

(9.29), Apurva Nimodiya (9.27), Sourabh Bajaj (9.27), and Neha Agrawal (9.16). From Shift II the toppers were - Suvridha Maheshwari (9.96), Anand Kumar Singh (9.84), Dipan Mirgani (9.69), Vivek Kumar (9.64), Saima Ali Sayyed (9.58), Prathamesh Gade (9.49), Vishal Kumar Yadav (9.13), Ashwini Barapatre (9.13), Hussain Ali (9.09), and Mamta Yadav (9.00). The overall result of Shift I & II is as follows:

SGPA	Number of Students
9.00-10.00	23
8.00-8.99	37
7.00-7.99	45
6.00-6.99	17
5.00-5.99	01
Less than 5.00	0

- Paras Jain and Abhishekh Parmar of Final year completed a summer internship programme on "REAL CISCO DEVICE" at PIET, Nagpur that was conducted from 16th June to 1st July 2014.
- The following Final year students completed summer internship at Biztime IT Solutions Pvt. Ltd, Bangalore in May 2014:
 - o Shrinivas Shukla, Rohit Totala, Akshay Patil completed a five-week training on "Employee Exit Automation".
 - o Shubham Rathi, Manasvi Gurnaney, Karisma Surana, Simran Jain, and Jhalak Agrawal completed a three-week internship on "Software strategic Planning system access requisition".
 - o Varun Jain, Shishir Sonekar, Hardik Agrawal, and Adarsh Mahodaya completed a four-week training on "Workforce Management Console".
 - o Pallavi Bisht, Prutha Ghumare, and Sumant Thakre completed a three-week training on "Employee Life cycle".

CAPACITY BUILDING ACTIVITIES

• Parent-Teacher Meet

The Department organized the Meet on 5th April 2014 for parents of 4th and 6th Semester students. The Meet began at 10.00 a.m. Parents were given booklets that highlighted the achievements of the students and the activities organized by the Department. Dr. M. B. Chandak, Head of the Department, met the parents of those students who were academically weak. The parents were given the general feedback by class

teachers on the academic performance of their children. They also discussed the problems and suggested improvement in the subjects with the respective subject teachers. The mentors of the students and the parents also met to discuss the general performance of the wards and the pros and cons. A feedback form was filled by the parents through which suggestions for ways for improvement were sought. This was followed by high tea.

Department of ELECTRICAL ENGINEERING

FACULTY CORNER

- Dr. M. M. Renge's paper entitled "Wavelet Modulus Maxima for Single Switch Open Fault in Multilevel Inverter" was published in *International Journal on Electric Power Component and System*, 42/09, pp. 889-900, ISSN 1532-5008, June 2014, Taylor & Francis.
- Prof. G. N. Goyal and Ankita Pande's (M. Tech. IV semester student) paper entitled "Designing of Impedance Network of Z Source Inverter for Different Control Methods" was published in conference proceedings of International Conference on "Industrial Automation and Computing (ICIAC 2014)", April 2014.
- Dr. M. M. Renge delivered an expert lecture on "AC & DC Drives" in a one week course on "Operation and Maintenance of Plant and Machinery for JWM/NGO/NIE" on 16th June 2014 at Ordnance Factory, Ambajhari, Nagpur.
- Prof. Vinay Barhate delivered a lecture on "Engineering as a Carrier" at a event "Badhate Kadam" organised by "Nagpur Nagar Maheshwari Sewa Sangh" on 29th June 2014 at Chitnavis Convention Centre, Nagpur.
- Prof. N. M. Deshkar delivered an expert lecture on "Electrical System as Special service for Architect" on 7th April 2014 to the students of Institute of Design and Architecture Studies, Hudkeshwar.

- Dr. D. R. Tutakne was invited twice for expert lectures on "Advanced Power Electronics" for M Tech (EPS) in BIT Ballarpur on 24th and 31st May 2014.
- Dr. D. R. Tutakne delivered an expert lecture on "Soft Starts Electric Motors" on 24th May 2014 at Ordnance Factory, Ambajhari, Nagpur. He also gave a demo of the kit that was assembled in the Department by Final year students in a project undertaken under his guidance. Staff members of all the ordinance factories in Nagpur participated.
- Prof. G. N. Goyal delivered an expert lecture on "Energy Audit" in Faculty Assistance Programme at Ordnance Factories Institute of Learning, Ambajhari, Nagpur on 14th June 2014. It was attended by graduate engineers and diploma holders employed at different plants of Ordnance Factories of India.



STUDENTS' ACCOMPLISHMENTS

- Students of the Department performed well in the following competitive examinations:
- o The following students scored well in GRE/ GMAT/ TOEFL, which are exams meant for higher studies abroad

Name of the student	Name of the Examination	Score
Mr. Devajeet Rajawat	TOEFL	114 out of 120
Mr. Devajeet Rajawat	GRE	330 out of 340
Mr. Shrirang Indurkar	GRE	313 out of 340
Mr. Jayant Thadani	GRE	307 out of 340
Mr. Anshul Rathi	GRE	284 out of 340

- o The following students scored well in Symbiosis/ NICMAR/ CET/ CMAT/ XAT competitive exams which are meant for further studies in management:

Name of the student	Name of the Examination	Score/Result
Mr. Shantanu Deshmukh	CMAT	265 out of 400
Mr. Mohit Vaswani	CMAT	248 out of 400
Mr. Vivek Paldiwal	CMAT	220 out of 400
Ms. Niharika Agrahari	CMAT	196 out of 400
Mr. Nitin Bellani	CMAT	145 out of 400
Mr. Sagar Dongre	CMAT	108 out of 400
Ms. Amrita Kodwani	CMAT	81 out of 400
Mr. Paresh Parashar	XAT	86 percentile
Mr. Nishant Kumar	XAT	32.33 out of 85

- Ms. Guneet Khanuja, Ms. Oindrilla Chakraborty, Ms. Prerna Suryawanshi, Mr. Aafaq Khatib, Mr. Adarsh Shukla, Mr. Deepak Gupta, Mr. Deepak Jain, Mr. Devajeet Rajawat, Mr. Gaurav Thatte, Mr. Paresh Parashar and Mr. Sorabh P. Singh scored well in GATE.
- Mr. Shantanu Deshmukh got a score of 89.57 percentile and Mr. Nishant Kumar scored 217 out of 450 in CAT Examination.



Department of **ELECTRONICS ENGINEERING**

FACULTY CORNER

- Prof. M. B. Damle undertook the following activities in this quarter:
 - o He has been elected as Executive member in IETE (Institution of Electronics and Telecommunication Engineer) Nagpur Centre from June 2014 to June 2016.
 - o His paper entitled "Domino based ADC for digital Synthesis" was published in the conference proceedings of international conference - ICIAC-2014 at Jhulelal Institute of Technology, Nagpur on 12th and 13th April 2014.
 - o He attended seminar on "Fiber to the Home (FTTH) and Broadband Communication" organized by IETE Nagpur centre on world Telecommunication day on 17th May 2014 at BSNL Nagpur.
 - o He attended seminar on "Information Technology and Computer Science Engineering Megatrends" by Dr. Narendra Choudhary, Director - VNIT, Nagpur at Govt. Polytechnic Nagpur on 2nd April 2014.

- Prof. S. V. Admane delivered a guest lecture on "Introduction to MATLAB and Simulink" on 16th and 17th June 2014 at ADCC Infocad Pvt. Ltd., Nagpur.
- Prof. N. S. Damle and Prof. B.M. Hardas attended AICTE sponsored short term course on "FPGA Prototyping Using Verilog" at IIT Kharagpur from 16th to 28th June 2014.
- Prof. N. S. Damle and Prof. B.M. Hardas attended one day workshop of "Comsol - Multiphysics" at Hotel Dua International Nagpur.
- Prof. Suresh Balpande's paper entitled "MEMS Based Bridge Health Monitoring System" was published in the proceedings of 10th IRF International Conference held at Pune in June 2014.

STUDENTS' ACCOMPLISHMENTS

- Seventeen students of VIII Semester have been placed in Infosys Tech. Ltd and 2 in Syntel, Pune through the campus placement process conducted in June 2014.

Department of **ELECTRONIC DESIGN TECHNOLOGY**

FACULTY CORNER

- Prof. Anju Gupta attended a three-day INUP familiarization workshop on "Nanofabrication" organized by IIT Bombay from 26th to 28th May 2014.

STUDENTS' ACCOMPLISHMENTS

- Rachit Varma and Shivani Jha of 4th Year EDT undertook the following activities in this quarter:
 - o They completed eighteen days training at Honeywell Automation India limited on DCS and PLC from 2nd to 20th June 2014
 - o They undertook five days training at Rashhiya Chemical Fertilizers on Automation System and Field Instrument from 23rd to 27th June 2014.
 - o Their paper entitled "The Analysis of Crucial

parameters determining the performance of RTOS" was published in *International Journal of Engineering Research and Applications (IJERA)*, 4, pp. 41-45, ISSN no. 2248-9622.

- Arnab Samant's (4th Year EDT) paper entitled "Interfacing of PIC18F252 microcontroller with real time clock via I2C protocol" was published in *International Journal of Engineering Research and Applications (IJERA)*, 4/7, ISSN no. 2248-9622)
- Eight students of 4th Year EDT underwent summer training at Railway Anagement Unit, Mahagenco KTPS limited, Western Coalfields Limited and Computer Greaves Limited.
- Seven students of 3rd Year EDT participated in Workshop on Aptitude Development (WAD) 2014 organized by RCOEM in June 2014.

Department of **ELECTRONICS AND COMMUNICATION ENGINEERING**

FACULTY CORNER

- Dr. S. B. Pokle's papers were published in following journals:
 - "Video Transcoding technique using tree based multilevel block partitioning in OFDM network" in *International Journal of Advanced media and Communication*, 5/213, pp.195-210, April-2014, ISSN:1741-8003.
 - "FPGA implementation of Viterbi's Decoder using modified Register exchange method- An overview" in *International Journal IJERA*, pp. 17-21, April 2014, ISSN: 2248-9622.
 - "Implementation of Adaptive Noise cancellation system for Audio related applications" in *International Journal of Measurement Technologies and Instrumentation Engg.*, 3/4, pp.51-67.
 - "Analysis of PAPR in digital video broadcasting over AWGN and Rayleigh channel" in *International Journal IJERT*, 2/12.
- Dr. S. B. Pokle was nominated as subject expert by honorable Vice Chancellor of RTM Nagpur University for faculty selection at G. H. Raisonni institute of

Engineering and Technology for Women, Nagpur on 19th June 2014 and Anjuman college of Engineering and Technology on 23rd June 2014

- Dr. R. D. Raut held the following positions in this quarter:
 - Was member of LEC Expert Panel at YCCE, Nagpur in April 2014.
 - Was subject expert for UGC Interviews at NIT, Nagpur.
 - Was selected as Reviewer for Hindawi and Inderscience Publications.
- Prof. R. B. Raut, Prof. V. S. Lande, Prof. P. R. Selokar, and Prof. P. P. Deshpande attended the Engineering and Science Innovation Summit, Nagpur organized by National Instruments on 23rd April 2014 at The Pride Hotel, Nagpur
- Prof. M. D. Chawhan was appointed as subject expert for faculty recruitment for 2014-15 at Rajeev Gandhi college of Engineering and Research, Nagpur on 24th May 2014.
- Prof. Puja Agrawal attended ISTE sponsored STTP on "Training of Outcome Based Accreditation Process and Parameters." from 23rd to 27th June 2014. It was organized by MIET, Gondia.

Department of **INDUSTRIAL ENGINEERING**

FACULTY CORNER

- Prof. M. R. Jain successfully conducted the RTM Nagpur University Summer 2014 B.E. Examination as Chief Supervisor of Exam Centre at RCOEM.
- Prof. P. P. Tambe completed training on "Introduction to SAP ERP" at Symbiosis Institute of International Business (SIIB) Pune, from 22nd to 26th April 2014.
- Prof. Rajesh Madarkar delivered guest lectures on "Heat Treatment and Surface Treatment of Metal" in a short term course at Ordinance Factory Institute of Learning, Nagpur on 19th and 20th May 2014.
- Prof. Rashmi Shahu successfully conducted WAD 2014 organized for UG student from 23rd to 30th June 2014 at RCOEM, Nagpur. 155 students participated in this workshop.

STUDENTS' ACCOMPLISHMENTS

- Thirty-seven out of the fifty-four eligible students of 2014 batch of the Department have been placed till June 2014.
- Students of the Department stood in the merit of 8th semester Industrial Engineering summer 2014 examination of RTMNU. Aastha Chandak stood first with 84.93 percentage. Meenakshi Chandak was 2nd with 84.4 percentage and Abhinav Singh scored 83.2 percentage to stand 3rd in the merit.
- Shiraj Attal with a SGPA 9.96 stood first in IV semester Industrial Engineering in Summer 2014 Autonomy examination of RCOEM. Nityam Karn got a SGPA of 9.61 and stood 2nd while Dhawal Bajirao stood 3rd with a SGPA 9.52.

CAPACITY BUILDING ACTIVITIES

• Parent-Teacher Meet

The Meet was organized in the Department on 5th April 2014 from 10.00 am to 12.30 pm for the parents of 4th and 6th semester students. Parents interacted with the faculty members and the HOD over issues related to students' performance in exams and other curricular activities, their conduct in the class room and on campus, and their future plans. The parents were satisfied with the overall performance. They praised the support and motivation given to their wards. They also gave some valuable suggestions for improvement of their wards and the Department. The Meet was organized by Prof. Priya Khandekar.



Parent-Teacher Meet in Industrial Seminar hall

Department of **INFORMATION TECHNOLOGY**

FACULTY CORNER

- Dr. D.S. Adane's papers were published in the following journals:
 - o "Effective Approach for Data Aggregation in Wireless Sensor Network: A Structure free Approach" was published in *International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)*, 2/5, May 2014, ISSN 2320-9798.
 - o "Comparative study of MAC layer protocol in Wireless Sensor Networks: A Survey" was published in *International Journal of Engineering Trends and Technology (IJETT)*, 12/1, June 2014, ISSN: 2231-5381.

STUDENTS' ACCOMPLISHMENTS

- Nitin Singh of 7th semester completed an in-house project on Web App Development using HTML5 at

Persistent Systems Ltd, Nagpur from 19th May to 27th June 2014.

- Esha Deshpande of 7th semester completed a one month summer internship at Metadata Technologies FZ-LLC from May to June 2014.
- Kapil Bang, Chetan Mehta, Vishnu Singh, and Arpit Khandelwal of 7th semester completed one month in-plant project training at Mahindra & Mahindra Ltd, MIDC Hingna road, Nagpur from 2nd June to 1st July 2014.

CAPACITY BUILDING ACTIVITIES.

- A Parent-Teacher Meet was held in the Department on 5th April 2014. Parents of the students studying in IV and VI semester IT attended the meeting to discuss the overall performance of the students in academics.

Department of **MECHANICAL ENGINEERING**

FACULTY CORNER

- Prof. G.R. Nikhade's paper entitled "Modal Analysis of Universal Joint Shaft for Rolling Mill" was published in *International Journal of Information science and Technology*, 26, June 2014. (IF 3.546)
- Prof. R.S. Dixit and Prof. S. S. Joshi attended a two-week ISTE Workshop on "Fluid Mechanics" organised by IIT Kharagpur at VNIT Nagpur from 20th to 30th May 2014.
- Prof. A. M. Andhare delivered an expert lecture on "Energy Conservation Act 2001 and Energy Audit", at Ordinance Factory Institute of Learning, Ambazari on 23rd May 2014.
- Dr. K. N. Agrawal was appointed as subject expert in Mechanical Engineering for conducting interviews of Mechanical Engineering faculty at Datta Meghe Institute of Engineering, Technology and Research, Sawangi, Wardha.
- Prof. B. C. Bissa delivered an expert lecture on "Automotive Mechatronics" at a workshop organized by Automobile Engineering Department, Government Polytechnic Nagpur on 3rd June 2014.
- Dr. K. N. Agrawal was appointed as a subject expert in Mechanical Engineering by RTM Nagpur University for conducting interviews for the post of Assistant Professor at Anjuman College of Engineering and Technology, Sadar, Nagpur on 16th June 2014.

STUDENTS' ACCOMPLISHMENTS

- Students of Team IMPULSIFIERS represented the SAEINDIA RCOEM Collegiate Club, at the virtual round of EFFI-CYCLE 2014, held at Rajlakshmi Institute of Technology Chennai. EFFI-CYCLE 2014, organised by the SAEINDIA Northern Section, is a competition in which teams of students get an opportunity to conceive, design and fabricate a three wheeled configuration vehicle powered by Human-Electric hybrid, with a capacity to seat two passengers and ability to cater to day to day mobility needs. Ankush Wawoo (VII sem Mechanical), Ritesh Yadav(V sem Mechanical), Saurabh Trivedi and Abhishek Mishra (V sem Industrial) represented team IMPULSIFIERS at the Virtual round of EFFI-CYCLE 2014. The team has also successfully completed the fabrication of F-I type vehicle for SAEINDIA SUPRA'14 competition to be held at the Madras Motorsport Club Race Track in Chennai from 17th to 20th July 2014. The team will leave for Chennai on 15th of July 2014.
- Sourabh Motiwala of Final Year has got admission in M.Tech in Renewable Energy Engineering and Management at TERI University, New Delhi.
- Juzer Kothawala got admission in M.Tech in Automotive Engineering, M. Mukesh in M.Tech in CAD CAM, and Piyush Khandelwal in M.Tech in Manufacturing Engineering in V.I.T University Vellore.

CAPACITY BUILDING ACTIVITIES

Industrial visit to Adani Thermal Power Plant (500 MW x 5)



A visit to Tiroda was organized on 2nd April 2014 for the students of M.Tech Heat Power Engineering. DGM Training Mr. Vijay Gandhewar arranged for the visit and gave an insight on the operation and maintenance activities carried out in the power plant. Prof. Amol Andhare coordinated the visit. Prof. Y. M. Sonkhaskar, Prof. S. A. Patil, Prof. R. M. Waghmare, and Prof. S. S. Joshi also accompanied the students.

Basic Sciences

Department of HUMANITIES

FACULTY CORNER

• Dr. V. H. Asudani was conferred with National literary award for his contribution to Sindhi literature by Akhil Bhara ti Sindhi Bole and Sahitya Sabha, Jaipur on 6th June 2014 in a special function held at St. Andrues Auditorium, Mumbai. The award consisted of a memento and a cash award of Rs.25,000.

BEYOND ACADEMICS

REEF (Ramdeobaba College Engineers For Environment Forum)

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

LECTURE BY SARPMITRA:



REEFians with Mr. Kaushik Pande and Mr. Gaurang Waiker of Sarpmitra at Shri Ramdeobaba Temple

REEF members participated in a self-organized workshop conducted by the Virdarbha Sarpamitra Samiti. The lecture was arranged by REEF Green Ambassador – Sudip Banerjee. The guest lecturers of the occasion were Mr. Kaushik Pande and Mr. Gaurang Waiker (a RCOEM alumni). The reason of this workshop was to create awareness regarding reptiles like snakes which are considered to be extremely dangerous and thus are hated the most by humans. Sarpamitra told REEFians about the snake species found in the region and all the necessary information about the same. A question and answer session took place after the presentation, thus clearing all the doubts REEFians had. They were guided regarding the perils snakes face today.

PROJECT OF RECYCLED REGISTERS:

REEF members carried out a small paper recycling project by recycling the unused pages from assignment notebooks submitted by the students. The pages were compiled together to make new notebooks which was distributed to the orphans and mentally challenged children on 7th April 2014. REEF members had planned this activity because it incorporated both community service as well as recycling of paper.



Department of **PHYSICAL EDUCATION**

STUDENTS' ACCOMPLISHMENTS

• Soumya Shrivastava (B.E. First Year) successfully completed a program conducted by Japan international Centre from 3rd to 10th June 2014 (JENESYS 2.0, The Short-Term Invitation program for students from SAARC Countries, India). She was selected from the area of sports among 10 members of a team from Nagpur University of different streams.

BEYOND ACADEMICS

• Yog -Pranayam Camp

Department of Physical Education organized Yog -Pranayam Camp. The camp was conducted by Col. (Retd) Pratap M Jog and Mrs. Padmini Jog for staff members of RCOEM from 16th to 20th June 2014.



Department of **MANAGEMENT TECHNOLOGY**

FACULTY CORNER

- Dr. Abhijeet Agashe's paper entitled "A Study of Individuals Preference towards Second Employment" was published in *South Asian Journal of Commerce & Management*, 5/1, 2014
- Dr. Chandan Vichoray's paper entitled "Development in Agricultural factor brakes through QFD application- A conceptual Analysis" was published in *IOSR Journal of Mechanical & Civil Engg.* 8, pp. 55-59, (ISSN No (Online): 2278 - 1684), (ISSN No (Print): 2320- 334X), 2014.
- Dr. Gayathri Band and Dr. Rupesh Pais's paper entitled "Perception of engineering Students towards mobile handsets as a person" was published in *South Asian Journal of Commerce & Management*, 5/1, (ISSN No:0975-8259), 2014.
- Dr. Kanchan Naidu's paper entitled "A study on Opinion of investors towards Mutual funds investment in India" was published in *International Journal of Commerce & Social Sciences*, 4/1, Jan to June, (ISSN No:2231-5888) 2014.
- Dr. Neeta Shah and Dr. Sunita Dhote's paper entitled "Pre and Post Acquisition Performance of Centurion Bank of Punjab by HDFC" was published in *South Asian Journal of Commerce & Management*, 5/1, (ISSN No:0975-8259), 2014
- Dr. Gayathri Band and Prof. Ruchi Sao's paper entitled "A Study of impact and identification of gender on the big 5 Personality traits" was published in *South Asian Journal of Commerce & Management*, 5/1, (ISSN No: 0975-8259), 2014.
- Dr. Gayathri Band and Prof. Ruchi Sao's paper entitled "Study and Impact of Personality Traits in Relation with Employee Satisfaction at Rasna International Private Limited, Ahmedabad" was published in *International Journal Of Entrepreneurship & Business Environment Perspectives*, 3/2, (ISSN (Print):2279-0918, (Online):2279-0926), April to June 2014.

- Dr. Gayathri Band and Prof. Ruchi Sao's paper entitled "Study and Impact of Gender on Personality Traits" was published in *International Journal Of Organizational Behaviour & Management Perspectives*, 3/2, (ISSN (Print):2279-0950, (Online):2279-0969), April to June 2014.
- Prof. Prashant Chhajer, Prof. Vandana Gandhi and Prof. Vishal Mehta's paper entitled "Study of Contribution of Small Shopkeepers / Businesses towards Environmental Sustainability Vis a Vis Corporates" was published in *International Journal of Commerce & Social Sciences*, 4/1, (ISSN No:2231-5888), 2014.

STUDENTS' ACCOMPLISHMENTS

- ICICI Securities, Kotak Mahindra Bank, Spacewood, Janalakshmi Financial Services, CryoBanks, Persistent, and Visa Steel visited the Department. Through the placement process 15 students were placed with an average salary of 3 lakhs per annum plus incentives.
- MBA 3rd semester students are presently doing their SIP in reputed organizations like ICICI Securities, ITC, Motilal Oswal, Persistent, Reliance AMC, Tata AMC, to name a few

CAPACITY BUILDING ACTIVITIES

- The Department has been awarded accreditation for three years by National Board of Accreditation, New Delhi.

Department of **COMPUTER APPLICATIONS**

FACULTY CORNER

- Prof. Sachin Upadhye's paper entitled "Dynamic programming HE and Elgamal used for software agent security" was published in *International Journal of Computer Science Trends and Technology (IJCT)*, 2/ 3, pp. 52-55, ISSN: 2347-8578, May-Jun 2014.
- Dr. D. S. Adane's paper entitled "Effective Approach for Data Aggregation in Wireless Sensor Network: A Structure Free Approach" was published in *International Journal of Innovative Research in Computer and Communication Engineering (IJIRCC)*, 2/5, ISSN (Print): 2320-9798, ISSN (Online): 2320-9801, May 2014.
- Prof. Sachin Upadhye's paper entitled "A Proposed Security Model for Software Agent Security using DPHE and Public cryptosystem" was published in *International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC)*, 2/5 ISSN: 2321- 8169, pp.1282- 1288, May 2014.
- Prof. Deoyani S. Shirkhedkar's paper entitled "Analysis of Various Digital Forensic Techniques for Cloud Computing" was published in *International Journal of Advanced Research in Computer Science*, 5, ISSN No. 0976-5697, April 2014.
- The following faculty members presented papers in National Conference PANACEA - 2014 organized by Datta Meghe Institute of Engineering, Technology and Research, Wardha on 4th April 2014:

- o Prof. Pravin Karmore presented "Development of host based testing and target based testing methodology for diverse design of embedded system: A approach".
- o Prof. Satyajit S. Uparkar presented "Multivariate analysis of factors affecting sales of the electronic appliances in retail sector".
- o Prof. Lalit Agrawal presented "Impact of cloud computing on IT industry".
- o Prof. Sachin Upadhye presented "Software Agent based model for Online Auctions"
- o Prof. Satyajit S. Uparkar was the Editorial board committee member of the conference.

CAPACITY BUILDING ACTIVITIES

Parent Teacher Meet on 5th April 2014



D. S. Adane interacting with parents



Faculty members interacting with parents

A Parent-Teacher Meet was organized by the Department on 5th April 2014. The academic performance of the students was discussed with the Parents. They were provided handouts that highlighted the achievements of the students and the staff as well as the activities organized by the Department. Dr. D. S. Adane, Head of the Department met all the parents and took their feedback and suggestions for overall improvement. After the Meet, the parent's feedback was discussed by the HOD with the faculty members.

Poster Presentation on Wireless Technology and Application

The Department organized a Poster Presentation for MCA 4th Semester students on 5th April 2014. The topics covered in the event were based on various areas of mobile computing. Students prepared the posters on various topics like Wireless Applications, Cellular Concepts, GSM Architecture and Advanced topics in Cellular networks. Dr. Rajesh Pande, Vice-Principal of RCOEM along with Dr. D. S. Adane, Head Department of Computer Application appreciated the hard work of the students. Prof. Manish Chauhan, Electronics and Communication Department, gave his valuable suggestions for the event. Prof. Shruti M. Rakhunde and Prof. Anand R. Padwalkar coordinated the event.



Training and Placement Department

PLACEMENT DETAILS :

In this quarter 24 companies visited the campus for the selection of 2014 batch students. 13 of these were core and the remaining were IT companies:

2014 BATCH

Sr. No.	Name of Company	Type of Company (Core/IT)	No. of Placements	Date of Visit
1	TEGA INDUSTRIES	CORE	-	1st to 15th April 2014
2	JSPL	CORE	-	
3	eCLINICAL WORKS	IT	1	
4	ZS ASSOCIATES	IT	6	
5	MATHER AND PLATT	CORE	3	
6	KEWILL	IT	3	
7	WIND WORLD INDIA	CORE	3	
8	SPACEWOOD FURNISHERS PVT. LTD.	CORE	1	15th to 29th May 2014
9	EXCELLON SOFTWARE SOLUTIONS	IT	-	
10	FUTURE GROUP SUPPLY CHAIN MGT	CORE	3	
11	PROMAX DIGITAL	IT	2	
12	INDORAMA	CORE	-	
13	Kratin Software Solution	IT	-	2nd to 28th June 2014
14	CMC LIMITED	IT	1	
15	VAV AIRCONDITIONING	CORE	-	
16	KISHOR KOGJE & ASSOCIATES	CORE	2	
17	SAINT GOBAIN	CORE	-	
18	MPHASIC	IT	2	
19	NARAYANI PAPER INDUSTRIES	CORE	-	
20	SYNTEL	IT	6	
21	INFOSYS	IT	43	
22	FLIPKART	IT	-	
23	T.I.M.E	CORE	Results Awaited	
24	MARVELL INDIA PVT LTD	CORE	Results Awaited	

• Prof. Anupam Anant Kher, Dean-Training and Placement was invited to the Academic Council meeting held on 15th April 2014. He presented a report on placement status and the training initiatives carried out by the T&P Department.

PRESENT STATUS OF PLACEMENTS:

2014 BATCH (Current Batch)

Total Placements : 596

Total Companies Visited : 73 (Core 35 + IT 38)

2013 BATCH

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

Total Companies Visited : 64 (Core 27 + IT 37)

Beyond Academics

IEEE

Students' Branch Counselors' Meeting for the Nagpur Region



IEEE Branch Counselors' Meeting for Nagpur Region was conducted on 24th April 2014 in the College. Dr. Narendra Bawane, Principal of S.B. Jain Institute of Technology, Management and Research, and Executive Committee member of IEEE Bombay Section, Chaired the meeting. 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 matters related to students' branch formations and smooth functioning of the same. The Counselors deliberated on ways to accelerate IEEE activities in and around Nagpur. Dr. Bawane pointed out the importance of forming a local network under IEEE so that the various students' branches can support each other. The representatives of the newly formed branches were introduced and many new colleges expressed their willingness to join this professional network. In the final segment of the meeting, Prof. (Mrs.) R. R. Khandelwal explained major activities conducted by IEEE Students' Branch of the college. The website for IEEE RCOEM Students' Branch was launched.

Alumni Association

Alumni Meet in New Delhi:

RCOEM Alumni Association, North India Chapter "Delhi Alumni Meet" was held on 31st May 2014 at Hotel MAPPLE – EMERALD, New Delhi. The Meet was hosted for the sixth time in New Delhi. The agenda of this meet was to strengthen the network by reaching out to more alumni and to have a long lasting association with them.

Dr. K.N. Agrawal, ex-faculty Incharge of the Association, Dr. Sunil Pande, Prof. H.D. Bhave, and Dr. Chandan Vichoray graced the Meet with their presence. Mr. Tushar Marghade, President of the Association delivered the opening remarks wherein his focus was to encourage the alumni and their alma mater to further their bonds. Many alumni from outside Delhi like Sumona Banerjee, Tejaunsh Nyati from Pune, Dr Vimal Gahlot from Jaipur, Vinay Bindlish from Kaithal, Sanjay Bansal from Yamuna Nagar, Umakant Agnihotri from Nagpur, Ashish Mahajan from Jammu, Vinod Goyal from Bogota, and Sameer Bajaj and AmarPal Kalsi from New Jersey, USA attended the Meet.

As part of the interaction in the Meet, the Association extended its request to the alumni to help the current students with placements, projects, industrial trainings and visits, syllabus framing and many other curricular and co-curricular activities. The Meet had its share of nostalgic moments when the alumni relived their fond memories associated with the college. The Meet ended with the alumni conveying their appreciation to the Association and the North India Chapter for an excellent and successful event.

Newsletter Team

EDITOR AND COORDINATOR

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

NEWSLETTER DESIGN

Print Tech, Nagpur

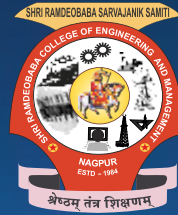
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E- NEWSLETTER

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Shri Ramdeobaba Temple on Campus