



SARDAR PATEL COLLEGE OF ENGINEERING NEWSLETTER

VOL: 1 ISSUE: 1 QUARTERLY NEWSLETTER - APRIL TO JUNE 2013

Contents :

| | |
|--------------------------------|----|
| 1. From Principal's Desk | 1 |
| 2. Honours | 1 |
| 3. STTP & Conference | 3 |
| 4. Faculty Achievement | 6 |
| 5. Student's Achievement | 7 |
| 6. List of Publications | 10 |
| 7. PHD & ME thesis | 12 |
| 8. Other News | 14 |

1. FROM PRINCIPAL'S DESK

Sardar Patel College of Engineering (SPCE) selected for participation in the Technical Education Quality Improvement Programme (TEQIP - Phase II) Project, Ministry of Human Resource Development, Government of India. MHRD sources informed that the SPCE will be granted about Rs 10 crore for this project. The TEQIP aims at transforming the technical education system in the country with the World Bank assistance.



Principal, Dr.P.H.Sawant

Technical Education Quality Improvement Programme (TEQIP) was envisaged as a long-term programme of about 15 years duration to be implemented in 3 phases for transformation of the Technical Education System with the World Bank assistance.

Sardar Patel College of Engineering has been one of the 127 institutions selected for TEQIP Phase - I for which an MOU was signed between The Government of Maharashtra state and, SPCE on 17th December, 2011.

VISION & MISSION

The broad objectives of Sardar Patel College of Engineering for TEQIP Phase II are:

1. Strengthening the institute to improve learning outcomes and employability of graduates.
2. Scaling-up postgraduate education and demand-driven Research & Development and Innovation,
3. Training of faculty for effective Teaching, and
4. Enhancing Institutional and System Management effectiveness.

2. HONOURS

Mechanical Engineering Department

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| Prof. Dr.R.B. Buktar | MIS Co-ordinator, TEQIP for academic year 2010-11, 2011-12,2012-13 |
| Dr R. R. Easow | <ul style="list-style-type: none"> • Core Committee member of Organizing Committee for ACREX INDIA 2013, An International Exhibition of Air conditioning and Refrigeration, 7th to 9th March 2013 at Goregaon Exhibition Centre, Mumbai • ISHRAE National Chair Student Activities 2013-14 • President - ISHRAE Mumbai Chapter 2012-2013 • ASHRAE Mumbai CTTC Chair 2012-13 • President Elect- ISHRAE Mumbai Chapter 2011-2012 • Secretary- ASHRAE Mumbai Chapter 2011-12 • Represented ISHRAE Mumbai Chapter at 3rd Board of Governors(BOG) Meeting at Mumbai, India, February 17 to 19, 2013. |

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| Dr R. R. Easow | <ul style="list-style-type: none"> • Represented ISHRAE Mumbai Chapter at 3rd Board of Governors(BOG) Meeting at Mumbai, India, February 17 to 19, 2013 • Represented ISHRAE Mumbai Chapter at 2nd Board of Governors(BOG) Meeting at Hyderabad, India, September 21 to 22, 2012 • Represented ISHRAE Mumbai Chapter at 1st Board of Governors(BOG) Meeting at Manesar (Delhi) India, May 25 to 26, 2012 |
| Dr. D.N.Jadhav | <ul style="list-style-type: none"> • Working as a Coordinator for ME MACHINE DESIGN from 2012 onwards • Working as a Faculty Advisor for National level SAE – BAJA competition from 2012 onwards. • Working as a Notified College Officer (NCO) for MT-CET 2013. |
| Dr. S. B. Rane | <ul style="list-style-type: none"> • Ph.D. programme Coordinator for Department of Mechanical Engineering, SPCE. • Expert Panel member for Doctoral Consortium held at VJTI on 16th March, 2012,VJTI, Mumbai • International Advisory Committee Member For the 1st International Conference In Best Practices In Supply Chain Management 22-23 Nov. 2012 Shiksha Anusandhan University, Bhubneshwar,Odisha,India • Session Chair in 1st International Conference In Best Practices In Supply Chain Management 22-23 Nov2012 Shiksha O Anusandhan University, Bhubneshwar, Odisha, India • Committee member in ME admissions June 2012,SPCE, Mumbai • Committee member in Ph.D. admissions June 2012, SPCE, Mumbai • Member of Academic Expert Panel member at K. J. Somaiya Poly, Vidyavihar on 28-12-2012 • K. J. Somaiya Poly, Mumbai • Worked as a coordinator for Institution compliance report to be submitted to AICTE from Nov- Dec 2012 SPCE, Mumbai • Prepared proposal for Ph.D. under QIP Mechanical and submitted to AICTE 2012 SPCE, Mumbai • One day Orientation Program on AUTOMATION with FESTO on 28 Sept,2012 SPCE, Mumbai • Expert Panel member for Doctoral Consortium held at VJTI on 11th , Jan , 2013 VJTI, Mumbai • District Liaison Officer for Conducting MTCET 2013 DTE, Govt. Of Maharashtra |
| Dr. R. S. Maurya | <ul style="list-style-type: none"> • Presiding Officer for IIT- JEE Examination held on 2nd June 2013. • Working as a procurement co-ordinator for TEQIP. |
| Prof. Megha Janbandhu | <ul style="list-style-type: none"> • Working as a mechanical engineering students association (MESA) in charge from 2012. • Working as a scholarship incharge from 2012. • Worked as a co coordinator for the extension of approval of AICTE accreditation web portal work 2013-2014. • Worked as a sub notified centre officer for conducting MT-CET examination 2013. • Worked as a CMAT observer for second test conducted in february 2013. • Working as member of library committee from 2011 till date. • Working as a member of women development cell for the year 2013. |
| Prof. S. R. Vankar | <ul style="list-style-type: none"> • Worked as a Sub- Nodal Officer for MT-CET 2013 for one month 2013 • Worked as a Sub-Liasoning Officer for MT-CET 2013 • DTE Representative for MHPGET-2013 as CTA (PG Entrance 2013) • AICTE Nominated OBSERVER for CMAT February 2013 & CMAT May 2013 • DTE Representative for merit list verification 2013 • Admission committee member for J&K admission 2013 • DTE Representative for marks verification for Migrated candidates (Parshwanath College of Engineering 2013) • Member of FE Admission 2013 |

Civil Engineering Department

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| Dr.Prabhat Shrivastava | <ul style="list-style-type: none">• Became member of Editorial Board of World Review of Intermodal Transport and Research (WRITR), USA an International Journal. |
| Dr. Nagrale | <ul style="list-style-type: none">• Approved as Ph. D. Guide in University of Mumbai from 29th Feb.2012, Letter: Th/ICD/2012-13/582, Dated 9th May 2012.• Instrumental in preparing the Proposal for QIP center.• Nominated as Coordinator QIP Center for civil Engineering Department. |
| Dr. Kambekar A.R | <ul style="list-style-type: none">• Became TEQIP and NBA report preparation team member at SPCE.• TEQIP-II Academic Audit Committee member.• AICTE Observer for CMAT 2012/CMAT2013 Examination for MBA.• External examiner for “Dams and Hydraulic Structures” at BE Civil Sem. VII, Pune University Nov.2012 Exam.• Member TEQIP-II-MIS Committee SPCE Mumbai.• Member TEQIP-II-Procurement Committee (Civil Engg.) SPCE Mumbai.• Nominated as Sub Liaison Officer (SLO) for MHT-CET-2013 Examination by DTE Maharashtra.• Editorial board member for “International Journal of Futuristic Technologies in Civil Engineering”.• Worked as overall coordinator of International Conference on “Recent Advances in Engineering, Technology and management” at SPCE Mumbai May31st –June 02nd, 2012.• Became member of Faculty selection committee, MPSTME, NMIMS University (Deemed-to-be-University), Mumbai (2012).• Nominated member of syllabus review committee of PG course in “Water Resources and Environmental Engineering” VIIT Pune, University of Pune for the academic year 2013-14.• Became advisory board member of “International Journal of Science, Engineering and Management”.• Became member of Scientific Committee and Editorial Board of “World Academy of Science, Engineering and Technology”. |

3. STTP & CONFERENCES

Mechanical Engineering Department

Mechanical Department organized, International Conference on “Recent Advances in Engineering, Technology and Management” during 31st May to 02nd June, 2012 at Sardar Patel College of Engineering, Andheri (West), Mumbai. Dr.S.B.Rane was Overall Coordinator of the Conference.

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| Prof. Dr.R.B. Buktar | <ul style="list-style-type: none">• Conducted one week workshop on “Product Design Validation using Finite Element Analysis” from 24th to 28th June 2013 at Mechanical Engineering Dept. SPCE• Attended one week STTP on “Multivariate Data Analysis” at IIT Kharagpur from 03/06/2013 to 08/06/2013.• Conducted one day workshop on “Product Life Cycle Management” on 21st March 2013 in association with Designtech systems ltd & Siemens at Mechanical Engineering Dept. SPCE• Conducted one day workshop on “Reverse Engineering & Product Development on 22nd March 2013 in association with Dysmec Consultancy Services Ltd. & Parametric Technology Corporation (PTC) Pune at Mechanical Engineering Dept. SPCE• Organized expert lecture on “Product Development” on 19th March 2013 Name of Expert:- Mr. Vivek Mahajan from Design tech systems Ltd Pune• Participated in Awareness Workshop on 2nd February, 2012 at University of Mumbai, FORT Mumbai.• Participated in e-MIS & e-FMR improvement workshop at SINHGAD PUNE on March 04 2013• Attended Two day training Program on “Motivation” organized at SPCE from 22nd to 23rd February 2013.• Attended two day training program on Web Based Management Information (WBMIS) software for TEQIP Phase-II.• Organized two day training session on Web Based Management Information System (WBMIS) on 24th & 26th April 2012 |
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| Dr. R. R. Easow | <ul style="list-style-type: none"> Invited Lecture on Ground Source Heat Pumps at STTP course on Advances & Practices in Heating, Ventilation, Air-Conditioning and Refrigeration, Department of Mechanical Engineering, Dr Babasaheb Ambedkar Technological University, Lonere , January 8 - 12, 2013. |
| Prof. D. N. Jadhav | <ul style="list-style-type: none"> Attended 03 days workshop on Finite Element Analysis at IIT Hyderabad from 17th to 19th Feb 2013. |
| Dr. S. B. Rane | <p>Participated</p> <ul style="list-style-type: none"> Participated in 1 week TEQIP approved STTP at VJTI on Industrial Engineering Tools and Techniques from 12th March To 16th March 2012 Participated in AICTE sponsored one week QIP Short Term Course on TRIZ and Taguchi methods using Innovation and Optmization 11th -17th Aug. 2012 Participated in two days Consultation Programme at IIM-INDORE on 14th- 15th Dec 2012 Participated in 10 days Management Capacity Enhancement Programme from 16th Jan to 26th Jan 2013 for Administrators at IIM-INDORE. <p>Conducted</p> <ul style="list-style-type: none"> Conducted 1 day 'Lean Manufacturing' session for Faculty at SIES graduate School on 14-01-2012 SIES graduate School, Navi Mumbai Conducted 1 day 'Six Sigma: An Overview' session for Faculty at Finolex Academy of Engg and Technology, Ratnagiri, 13th April 2012 Conducted 1 day session on CRM at SPIT, 2012. Delivered 1 day Key Note Address at Doctoral Consortium at Sinhgad Institute of Technology, Lonavala, Maharashtra ,on 31st Aug, 2012 Conducted 4 months Research Methodology Coursework for Ph.D. Scholars at SPCE from Aug.2012-to Nov. 2012 Conducted 1 day coursework Seminar on Research Methodology at ITM ,Kharghar 13th Jan, 2013 Conducted 1 day Seminar on Six Sigma at LTCOE on 1st Feb.2013 as a part of IIIE Foundation day Celebration.IIIE, Kharghar, LTCOE,Navi-Mumbai Conducted 2 days FDP on Research Methodology at Govt. College Of Engineering, Jalgaon, M.S. on 16-18 March 2013 Organised One day Orientation Program on MECHATRONICS with SIEMENS on 04 oct,2012 SPCE, Mumbai |
| Dr. R. S. Maurya | <ul style="list-style-type: none"> Conducted Two week CFD Software Training on "ANSYS Fluent 12.0", 26 Dec. 2011-6th Jan. 2012. |
| Prof. S. S. Umale | <ul style="list-style-type: none"> Attended TE QIP II sponsored workshop on Failure analysis of Engineering Materials at VNIT Nagpur from 18/04/2013 to 20/04/2013. Attended two week ISTE workshop on Engineering Thermodynamics under national mission on education through ICT (MHRD, Govt of India) from 11/12/2012 to 21/12/2012 at VNIT Nagpur. Attended 2 day National Level workshop on "Faculty Leadership development programme" organized by SAEINDIA On 21st & 22nd June 2013 at Priyadarshini College of Engineering Nagpur. |
| Prof. P. K. Muley | <ul style="list-style-type: none"> Attended workshop on RESEARCH METHODOLOGY at IIT Bombay in June 2012. |
| Prof. Megha Janbandhu | <ul style="list-style-type: none"> Two Days Workshop on "How to write Course Learning Objectives and attended Research Based Instructional Strategies" held on 6th and 7th Dec. 2012 at Government College of Engineering, Pune. " Fundamentals of Numerical Computing" held at VNIT Nagpur from 10th dec 2012 to 14th dec 2012. Short Term Training Program on "Advances in Robotics" held at VNIT Nagpur. Short term workshop on "OUTCOME BASED ACCREDITATION FOR STAKEHOLDERS" |

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| Prof. Megha Janbandhu | <ul style="list-style-type: none"> • “Turbulent Jets and Plumes: Theory and Applications” held at IIT Bombay from 14th Jan 2013 to 18th Jan 2013. |
| Prof. S. R. Vankar | <ul style="list-style-type: none"> • Attended one week STTP on Soft Computing Tools and its Applications in Engineering at Government College of Engineering Aurangabad under TEQIP II from 03/06/2013 to 07/06/2013. • Attended one week STTP on Control System at Indian Institute of Technology, Bombay under QIP from 03/12/2012 to 07/12/2012. • Attended one week STTP on TRIZ & Taguchi Method at Indian Institute of Technology, Bombay under QIP from 11/07/2012 to 16/07/2012. • Attended one week STTP on Ansys Software at RMCET, Devrukh, Ratnagiri, Maharashtra under AICTE from 24/12/2012 to 28/12/2012. |

Civil Engineering Department

Civil Department organized, International Conference on “Recent Advances in Engineering, Technology and Management” during 31st May to 02nd June, 2012 at Sardar Patel College of Engineering, Andheri (West), Mumbai. Dr.A.R.Kambekar was Overall Coordinator of the Conference.

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| Dr. Jeswani H. | <ul style="list-style-type: none"> • Organized a 5 day environmental week under Green-Club (SPGC) which included Lectures, documentary screening, E waste collection, no light hour and T-shirt making with slogans. |
| Dr. P. P. Nagrale | <ul style="list-style-type: none"> • Attended two Days Workshop on “How to write Course Learning Objectives and Research Based Instructional Strategies” held on 6th and 7th Dec. 2012 at Government College of Engineering, Pune. • Attended three days workshop on “Quality Initiative in Technical and Higher Educational Institutes” held during 28th to 30th Aug. 2012 at Engineering Staff College of India, Hyderabad. • One day Orientation Program on “New outcome Based Accreditation processes” held on 16th June 2012 at Government College of Engineering, Pune. • Attended one day Workshop on “Procurement and PMSS training” Organized by State Project Facilitation Unit Chandigarh, on 16th March 2012 at Chandigarh. |
| Dr. Kambekar A. R. | <ul style="list-style-type: none"> • Delivered lecture in two week course ‘Value Engineering’ May 2012 under AICTE-ISTE at MHSS Polytechnic Mumbai. • Attended three days training on “Dam Safety and Rehabilitation” at CWPRS (GOI, MoWR) Pune during 05-07 February 2013. • Attended one week Environmental Management System (Lead Auditor) training at Lloyds Register QA office Mumbai during February 11-15, 2013. • Attended workshop on “Finite Element Analysis of Structures with MATLAB and ABAQUS Based Simulations” during 23rd July to 27th July, 2012 at IIT Delhi. • Attended workshop on “Quality initiative in Technical and Higher Educational Institution” at Engineering Staff College of India Hyderabad. 28th-30th August, 2012. • Attended program on Management Capacity Enhancement for Administrators from 29th April to 8th May 2013 at IIM Indore. |
| Dr. Hansa Jeswani | <ul style="list-style-type: none"> • Delivered lectures in Seminar by Water Digest on “Trouble Shooting of Wastewater Treatment Plants” Friday, 31st August, 2012 in Mumbai. • Attended workshop on “Passive solar design, day lighting and simulations for green building” in IIHS Bangalore organized by Environmental design solutions on 2,3rd Feb 2013 under TEQIP II. • Completed Training on Motivation in Organisation by Flagship on 22nd and 23rd of February in SPCE under TEQIP II. • Completed the initial training for Lead Auditor in Environmental Management system ISO 14001 by LRQA between February 11th to 16th 2013 under TEQIP II |
| Ms.Kshitija Nadgouda | <ul style="list-style-type: none"> • Attended two day workshop on “Motivation” organized at SPCE on Feb 22 and 23, 2013. |
| Ms.Preeti Shrivastava | <ul style="list-style-type: none"> • Attended a workshop on “Workplace Motivation” on 22nd and 23rd February, 2013 Pursuing M.E. Civil (Construction Management). |

Electrical Engineering Department

Electrical Department organized, one week course on Digital System Design during 6th August to 10th August, 2012 at Sardar Patel College of Engineering, Andheri (West), Mumbai. Mr. B.B. Pimple was the coordinator of the same.

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| Ms. Prajakta Joshi | <ul style="list-style-type: none">• Attended one week course on “Energy Management” held on 26th Nov. to 30th Nov. 2012 at IIT Bombay.• Attended workshop on “SMART Transmission Grid” held on 7th and 8th Feb. 2013 at CPRI, Bangalore. |
| Ms. Sumbul | <ul style="list-style-type: none">• Attended one week course on “Energy Management” held on 26th Nov. to 30th Nov. 2012 at IIT Bombay.• Attended a seminar on “Lightening Summit” organized by Economics Times, ACE Tech on 19th Oct. 2012.• Attended one month training on “Mechatronics” arranged by Siemens during 3rd Dec.2012 to 4th Jan. 2013.• Attended first International workshop on Measurement and evaluation of LED and Luminaries organized by LABSPHERE on 23rd Jan. 2013.• Attended a day seminar on “Nano world to Gigahertz” held on 8th March 2013 at SPIT, Mumbai. |
| Mr. Raye | <ul style="list-style-type: none">• Attended first International workshop on Measurement and evaluation of LED and Luminaries organized by LABSPHERE on 23rd Jan. 2013. |
| Ms. Ushma Shah | <ul style="list-style-type: none">• Attended one week STTP (7th Jan. 2013 to 11th Jan. 2013) on “Advanced image acquisition, processing and applications” at St. Xavier Institute of Engg., Mumbai.• Attended a day seminar on “Nano world to Gigahertz” held on 8th March 2013 at SPIT, Mumbai. |
| Ms. Remadevi | <ul style="list-style-type: none">• Attended seminar on “Quality Initiatives in Technical and Higher Education Institution (in Compliance with NBA, NAAC and ABET Accreditation) “ held on 28th to 30th Aug. 2012 at ESCI Campus, Gachi Bowli, Hyderabad.• Attended a workshop on “To enhance the administrative skills of higher education institution” held on 14th and 15th Dec. 2012 at IIM Indore.• Attended workshop on “SMART Transmission Grid” held on 7th and 8th Feb. 2013 at CPRI, Bangalore. |
| Ms. Vidyulata Joshi | <ul style="list-style-type: none">• Attended seminar on “Quality Initiatives in Technical and Higher Education Institution (in Compliance with NBA, NAAC and ABET Accreditation) “ held on 28th to 30th Aug. 2012 at ESCI Campus, Gachi Bowli, Hyderabad. |

4. FACULTY ACHIEVEMENTS

Mechanical Engineering Department

- Conference “SPICON” was organized in the month of MAY-2012. The conference received huge response from the participants all over india. Dr.S.B. Rane was the Coordinator for the conference
- Prof. R.B Buktar, D.N. Jadhav , Dr. R.S. Maurya, Prof.S.S. Umale & Dr. S.B. Rane published papers in International Journal
- Prof.S.S. Umale published paper in National Journal
- DR. R.S Maurya and D.N. Jadhav presented papers in International Conferences
- Dr. Easow presented paper in National Conference
- Prof. R.B. Buktar , Dr. Easow, Dr. R.S. Maurya & Dr. S.B. Rane conducted seminars & workshops
- Dr. Easow, Dr. S.B. Rane , Prof. S.S. Umale & Prof. D.N. Jadhav attended courses

Civil Engineering Department

- Dr. Shrivastava conducted joint research with Prof Jacob Taso of San Jose state university, CA, USA and published a paper titled as “An extra trailer to double truck-bus capacity of India via automated trailer steering” jointly in SPICON 2012.
- Dr. A.R.Kambekar worked as Referee to following International Journals
Advances in Engineering Software, Elsevier Science.
Pipeline Systems-Engineering and Practice, ASCE.
Science of the Total Environment, Elsevier.
Modeling and Simulation, Actapress.
Computers and Applications, Actapress.
Journal of Hydrology, Elsevier Science.
Clean- Soil Air Water, Wiley VCH.
Water Resources Management, Springer.
Water Science and Technology, IWA Publishing.
Hydrological Science and Technology (IJHST)
- Dr. A.R.Kambekar has become editorial / advisory board members of following international journal
- Member Scientific Committee and Editorial Board, “World Academy of Science, Engineering and Technology”, (<https://www.waset.org/EngineeringandPhysicalSciences.php?page=97>)
- Advisory board member “International Journal of Science, Engineering and Management” (<http://www.bangalorepublications.com>)
- Editorial board member “International Journal of Futuristic Technologies in Civil Engineering” (<http://www.bangalorepublications.com>)
- Faculty participated in about 15 seminars/short term courses/workshops and training programs.

5. STUDENTS ACHIEVEMENT

Mechanical Engineering Department

- Students of Mechanical Engineering department actively participated in SAE-BAJA & ROBOCON competition organized at Indore
- Seven students got selected for Narotam Sekhsaria foundation scholarship
- Sagar Shinde from B.E (Mech.) was awarded scholarship from “Nirav Modi Foundation”
- NILAY SARAF,DEVENJAN ROY,SIDDHARTH IYER,PRANAV SUVARNA Of BE Mechanical Students won the first prize worth Rs. 50,000/- in National Student ISHRAE Design competition
- Cash Prize Of Rs 5000 Awarded To DEVENJAN ROY (BE MECH) in the area of Refrigeration and Air Conditioning
- Cash Prize of Rs 2000 – Swapnil Shetty from (SE MECH) was awarded in the area of Thermodynamics in 2012
- Dhruv Phadke from B.E.(Mech) got selected in General motors during Baha campus placement & Mukund Lahoti got selected in Cummins India Pune in 2012.
- Pratik Baldota, Priyank gajiwala & Nikhil Kotassthane got selected in University of Michigan Annarbour, State Detroit through GRE-TOEFL in 2012.



We all are proud of our student S Aravind Raghavan (Mech Class of 2009) who stood FIRST in MTech at IITB and won the Silver medal for the topper in year 2012-13.



Students of Sardar Patel College of Engineering with their All Terrain Vehicle (ATV) which was envisioned, designed and manufactured by the students themselves. This vehicle will be entering in the national level intercollegiate design competition BAJA SAEINDIA 2013 organized by SAE. This is the 4th year that the college team SPCE Racing is participating in this event and they will be racing against more than 100 other college teams from all over India on the NATRIP track near Indore, Madhya Pradesh.

- Annual Technical festival “TORQUE-2013” was organized by MESA. Prof. Megha Janbandhu was the coordinator for the event
- Mechanical Engineering Students Association (MESA) of SPCE organized BLOOD DONATION CAMP on 23rd Jan 2013 in association with BOMBAY HOSPITAL
- (MESA) of SPCE has organized BONE MARROW TESTING CAMP on 09/04/2013 Tuesday at SPCE Seminar Hall From 10.00AM TO 4.00P.M.
- Organized TECHNOLOGY DAY on 31st August 2012.



Robocon Team for 2012-13 who stood 13th in Mumbai, We Congratulate them for

Civil Engineering Department

| Students | Achievements |
|--|---|
| Mr. Rushikesh Bhadane | Secured 3rd place in MIT Swimming Competition during 15-20 Sept. |
| Miss Bhoomi Shah | Secured 2nd prize in SStech 2012 – Science & Spirituality Essay competition, university of Mumbai, Department of Philosophy. |
| Mr. Sudhanshu Kamat | Participate in SStech 2012 – Science & Spirituality Essay competition, university of Mumbai, Department of Philosophy. |
| Miss Rumana Sayyed Mr. Kaustubh Miss Swarnima Revatkar | ICT group dance competition winners. |
| Mr. Umang Parikh Mr. SanketKurahade | Members of SPCE cricket team & winners in Intercollege Spirit. |
| ApteA. and Kashikar P | Won 1st prize in an essay competition organized by IIT Madras on Renewable energy option for India under the mentorship of Dr. H. Jeswani, December 2012. |



Practical FEA Workshop

Mechanical Engineering Department of SPCE
Organizes
FIVE DAY TRAINING CUM WORKSHOP
UNDER TEQIP On
PRODUCT DESIGN VALIDATION USING
FINITE ELEMENT ANALYSIS
Date : 24th To 28th June 2013
Venue : Seminar Hall, R. No. 114,
First Floor

Practical FEA Workshop organized under TEQIP

Electrical Engineering Department

Placement of Students - 69 out of 85

Number of students who opted for higher studies with valid qualifying scores/ranks- 07 out of 85

| Students | Company where training completed | Duration |
|-----------------------|---|-------------------------------|
| Harshal .S. Bhajipale | 1.Koradi Thermal Power Station 2.M and M 3.Friends Electrical | 1 month 20 days 10 days |
| Toshish .S. Sarode | 1.Thermal power station, Deepnagar | 15 days |
| Raghuveer Chauhan | BEST | 1 month |
| Anushree Pethe | 1.Crompton Greaves Pvt. Ltd. 2.PRS Permacel Ltd. | 20 days 12 days |
| Priyanka Jagdale | 1.Crompton Greaves 2.TIFR | 10 & 18 days |
| Apurva Raman | Bharat Bijlee & CGL | 15 & 1 month |
| Gaurav Pai | Savita transformers, Tarapur | 1 month |
| Sagar.S.Doube | Tesla Electrosystems | 2 weeks |
| Mitali Raul | Bharat Bijlee & TAPP, Tarapur | 2 weeks each |
| Priyanka Junghar | Bharat Bijlee | 2 weeks |
| Shreya Shikarkhane | Bharat Bijlee, Messung Systems & Siemens | 2 weeks each |
| Shubhangi Kotate | Bharat Bijlee | 2 weeks |
| Medha Pandit | Siemens Switchgear factory | 1 month |
| Pallavi Date | Shivanand Electronics, Nashik | 15 days |
| Tejashree Dadas | BEST | 1 month |
| Trupti Darge | BEST | 1 month |
| Rohan Shedage | BEST | 1 month |
| Nilesh Rajurkar | ICTR, Aurangabad | 15 days |
| Mrunmayee Kadam | Bharat Bijlee | 15 days |
| Minal Tekade | Bharat Bijlee | 15 days |
| Shivali Adhvilkar | Matunga Railway, C&G Transformers & TATA Power | 8,10 & 15 days |
| Nikhil Kasbe | TATA Power | 15 days |
| Vivek Vishe | TATA Power | 15 days |
| Rahul Bhatia | ABB Ltd | 15 days |
| Umang Deora | L & T | 5 weeks |

6. LIST OF PUBLICATIONS

Mechanical Engineering Department

1. Experimental Study of Horizontal Loop Parallel Flow Ground Heat Exchanger, Mohite, P. S. and Easow R.R., Proceedings of International Conference on Emerging Trends and Research in Engineering and Technology at IBSS College of Engineering, Amravati in association with International Journal of Pure and Applied Research in Engineering and Technology, March 2013
2. Performance Analysis of Earth Air Tunnel System for Cooling in Hot and Humid Climates, Donde, S. and Easow, R. R., Proceedings of International Conference on Recent Advances in Engineering, Technology and Management, S.P College of Engineering, Mumbai, India, May 2012
3. Shreyas Kulkarni and D. N. Jadhav presented a paper on Wind Induced Vibrations of Tall Steel chimney in International Journal of Mechanical Engineering Research, Vol. 3, No. 1, 2013. [ISSN 2249-0019]
4. Shreyas Kulkarni and D. N. Jadhav presented a paper on Passive Control Systems for Tall structures in International Conference on Mechanical and Industrial Engineering (ICMIE). (ISBN:978-93-81693-88-2), 2012.
5. Shreyas Kulkarni and D. N. Jadhav presented a paper on Passive Control Systems for Tall structures in International Journal of Theoretical and Applied Research in Mechanical Engineering [ISSN (Print) 2319-3182].2012.
6. Swapnil Marwadi and D. N. Jadhav presented a paper on LEFM analysis of edged crack plate using analytical and FEA approach in International Conference on Mechanical and Industrial Engineering (ICMIE) (ISBN:978-93-81693-88-2), 2012
7. Swapnil Marwadi and D. N. Jadhav presented a paper on Investigating the effect of distance between the crack and structural discontinuity using finite element analysis in International Journal of Advances in Engineering Science and Technology(IJAEST)(ISSN 2249-913X).2012
8. Swapnil Marwadi and D. N. Jadhav presented a paper on LEFM analysis of edged crack plate using analytical and FEA approach in International Journal of Theoretical and Applied Research in Mechanical Engineering [ISSN (Print) 2319-3182]. 2012
9. Sanket Choudhary and D. N. Jadhav presented a paper on A Suggested stress analysis procedure for nozzle to head shell element model – a case study in International Conference on Mechanical and Industrial Engineering (ICMIE). (ISBN 978-93-81693-88-2)
10. Sanket Choudhary and D. N. Jadhav presented a paper on A Suggested stress analysis procedure for nozzle to head shell element model – a case study in International Journal of Theoretical and Applied Research in Mechanical Engineering [ISSN (Print) 2319-3182]
11. Nilesh Aitavade and D. N. Jadhav presented a paper on Design and Analysis of Single Plate Blast Resistant Door in International Conference on Advanced Engineering and Technology (ICAET). (ISBN:987-93-81693-99-1)
12. Nilesh Aitavade and D. N. Jadhav presented a paper on Numerical Study and Analysis of Blast Resistant Door with Stiffeners in International Conference On Design, Analysis, Manufacturing And Simulation (ICDAMS). (Under process of Publication).
13. Nityanand Pawar and R S Maurya, Flow Maldistribution in a Simplified Plate Heat Exchanger Model-A Numerical Study, Applied Mechanics and Materials Vols. 110-116 (2012) pp 2529-2536.
14. Sachin B. Ingle and R S Maurya, Experimental Investigation of Manifold Induced Flow Maldistribution in U- and Z-Turn Flow Configurations, Applied Mechanics and Materials Vols. 110-116 (2012) pp 4677-4683
15. Nilesh S. Varkute, R.S. Maurya, CFD Simulation in Township Planning – A Case Study, International Journal Of Computational Engineering Research Vol. 3 (2013) Issue. 3 pp 65-72.
16. Kunal Y Bhavsar and R S Maurya, Numerical Analysis of Thermal Separation of Flow in the Vortex Tube: A Numerical Investigation, Proceedings of Metallurgical, Manufacturing and Mechanical Engineering, February 17, 38-44, 2013, Nagpur, India.
17. Technical Paper presented by S. S. Umale On Austempering Heat Treatment of Low Carbon Equivalent Ductile Irons in INDIAN FOUNDRY JOURNAL vol. 58 no 5 May 2012.
18. Technical Paper presented by S. S. Umale On Characterization of Inoculated Low Carbon Equivalent Iron at Lower Austempering Temperature at SPRINGER in Oct 2012

Civil Engineering Department

1. Singh J.P. and Dr. Shrivastava Prabhat published paper in International journal of global technology initiatives having registration no. ISSN 2277-6591, pp A23 – A30 on “Impact of adverse weather conditions on traffic flow characteristics- An overview”.
2. Mishra Arun and Dr. Shrivastava Prabhat Published paper in journal of Environmental Reaserch and Development, Vol. No.6, Issue No.4, pp-981-987, June/July 2012on “Measurement and Prediction of Carbon Monoxide in the Surrounding Areas of An Upcoming Airport”
3. Mishra Arun and Dr. Shrivastava Prabhat Published paper in journal of Environmental protection, Vol. 32, pp 857-863, October 2012 on “Assessment of Traffic Noise Pollution in the surrounding area of an upcoming airport”
4. Mishra Arun and Dr. Shrivastava Prabhat Published paper in journal of Research in Engineering and Technology, Vol. 1, Issue 2, pp-118-124, October 2012 on “Assessment and Prediction of Noise Level on various Links in the surrounding Area of an Upcoming Airport in India”
5. Mishra Arun and Dr. Shrivastava Prabhat Paper Accepted for publication paper in International Journal of Scientific and Engineering Research, France on “Assessment of Ambient Air quality monitoring in the surrounding areas of an upcoming Airport in India”
6. Dr. Nagrale Prashant P, Atul Patil and S.R. Katkar published paper in International Journal “Finite Element Modelling of Lime Stabilized Low Volume Rural Roads”
7. Pravinkumar S. Jagtap, Dr. Prashant P. Nagrale published paper in International Journal on Global Technology Initiatives (ICGTI-2013) on “Finite Element Modelling of Low Volume Rural Road”.
8. Ashok S. Pol and Dr. Prashant P. Nagrale presented paper in International Journal on Global Technology Initiatives (ICGTI-2013) on “Estimation of Forecasted Amenities for Sewage Disposal Required in R/ North Ward of Mumbai City: A Case Study”.
9. “Experimental Study on Combined Effect of Fly Ash and Pond Ash on Strength and Durability of Concrete” by Dr. A. R. Kambekar and Sandip Haldive in International Journal of Scientific and Engineering Research. (IF= 1.4), IJSER, Houston, TX77043, USA (accepted).
10. “Exiguobacterium aurantiacum degrading structurally diverse organic compounds and its potential for treatment of biomass gasification wastewater”, Published by Dr. Jeswani H. (March 2013) in International Journal of Biodeterioration and Biodegradation titled Batch studies.
11. “Degradation of Phenolics, Nitrogen-Heterocyclics and Polynuclear Aromatic Hydrocarbons in a Rotating Biological Contactor in Bioresource Technology” published by Dr. Jeswani H. in May 2012.
12. “Potential of Using Kitchen Waste in a Biogas Plant” by Dr. Jeswani H. in International Journal of Environmental Science and Development in March 2013.
13. Shrivastava Preeti R. and Dr. P. H. Sawant published a paper titled “Estimation of fire loads for an educational building - A case study” in International Journal Of Scientific Engineering and Technology, ISSN : 2277-1581, vol no.2, issue no. 5, May 2013.
14. Singh J.P. and Dr. Shrivastava Prabhat presented and published paper in proceedings of International conference on recent advances in Engineering - SPICON 2012 under Title of “Modelling traffic flows under adverse weather conditions” at S.P.College of Engineering, Mumbai during May 29 to June 1, 2012.
15. Singh J.P. and Dr. Shrivastava P. presented and published paper in proceedings of International Workshop on Transportation Planning Methodologies for Developing Countries (TPMDC) held at IIT Bombay under title of “Modeling Of Traffic Stream under Adverse Weather Condition”, during December 12 – 14, 2012
16. Shah Rohan and Shrivastava P. will be presenting paper on “Modeling the Merging Process Of Vehicle Through A Toll System In Mumbai” as LOS Indicator accepted in World Conference On Transportation Research (WCTR - 13) to be held in Riode-De-Janeiro during July 15-18, 2013.
17. Shah Rohan and Shrivastava P. presented and published in proceedings of International Workshop on Transportation Planning Methodologies for Developing Countries (TPMDC) held in IIT Bombay, Mumbai during December 12–14, 2012 under title of “Modeling the Vehicular Queuing at a Toll Collection Facility using Time-Delay Analysis and Performance-Parameters’ Evaluation”.
18. Kale Uma and Shrivastava Prabhat presented paper on “Evaluation of Relationship Between AQHI and Human Due To Auto-Exhaust Pollution- A Review” at National Conference on Innovative Trends for Technology Developments, TECHNOCON-2012 during January 6th & 7th, 2012 at Datta Meghe Institute of Engineering, Technology & Research, Sawangi (Meghe), Wardha
19. Kale Uma and Shrivastava Prabhat published paper on “Air Quality Health Index for Mumbai – A Review” at National Conference on Innovative Trends for Technology Developments, TECHNOCON-2012 during January 6th & 7th, 2012 at Datta Meghe Institute of Engineering, Technology & Research, Sawangi (Meghe), Wardha
20. Dr. Nagrale Prashant P. et al. published paper in International Conference SPICON 2012, Sardar Patel College of Engineering, Andheri (w), Mumbai – 58, May 2012, TRE – 17 under the title “Design of Jute Reinforced Flexible Pvements”.
21. Pravinkumar S. Jagtap and Dr. Prashant P. Nagrale presented paper in National Conference on Recent Advancement

- and Development in Civil engineering (RDACE-2013) at SKR college of Engineering Poonamallee, Chennai on 14th to 15th March 2013 under title of "Economic Analysis of Rural Roads Using Finite Element Modelling".
22. Ashok S. Pol and Dr. Prashant P. Nagrale published paper on "Estimation of Forecasted Amenities Required in R/North Ward of Mumbai City: A Case Study" in National Conference on Recent Advancement and Development in Civil engineering (RDACE-2013) at SKR College of Engineering Poonamallee, Chennai on 14th to 15th March 2013.
 23. 23. Ashok S. Pol and Dr. Prashant P. Nagrale presented paper in National Conference on Recent Advancement and Development in Civil engineering (RDACE-2013) at SKR College of Engineering Poonamallee, Chennai on 14th to 15th March 2013 under title of "Estimation of Forecasted Amenities for Disposal of Sewage Required in Dahisar ward of Mumbai City"
 24. 24. Pravinkumar S. Jagtap and Dr. Prashant P. Nagrale presented paper in National Conference on Recent Advancement and Development in Civil engineering (RDACE-2013) at SKR college of Engineering Poonamallee, Chennai on 14th to 15th March 2013 under title of "Mechanistic Approach for Design of Low Volume Rural Roads"
 25. 25. Dr. Kambekar A. R. and Sandip Haldive published paper on "Experimental study on combine effect of fly ash and pond ash on strength and durability of concrete" at SCMS Engineering College Karukutty Kerala May 2013.
 26. 26. Dr. Kambekar A. R. and Shailesh H. Kajrekar published paper on "Redevelopment of building - an alternative to Retrofitting".
 27. 27. Dr. Kambekar A. R. and Sujit Amritkar published paper on "Seepage Control in Water Supply Tunnel by Cement and Chemical Grouting-a Case Study".
 28. 28. Dr. Kambekar A. R. and Asif Musa Shaikh published paper on "Systematic Approach of Sewer Management using GIS".
 29. 29. Dr. Kambekar A. R. et al. published paper on "Rainwater Harvesting System Design".
 30. 30. Dr. Kambekar A. R. published paper in National Conference on Hydraulics, Water Resources and Ocean Engineering-Hydro 2012, held at IIT Bombay, Powai, Mumbai.

Electrical Engineering Department

1. Ms. Sangita Daingade published paper in International conference on Advances in Control and Optimization of Dynamical Systems (ACODS-2012), IISc Bangalore, India, Feb 2012 titled "Cooperative Target Capturing with Multiple heterogeneous Vehicles."
2. Ms. Sangita Daingade published paper in International Symposium on Distributed Autonomous Robotic Systems (DARS-2012), Johns Hopkins University, Baltimore, MD, USA, India, in Nov 2012, titled "Nonlinear Cyclic Pursuit based Cooperative Target Monitoring".
3. Mr. Rahul Dahatonde published paper in International Journal of Electrical and Electronics Engineering Research, ISSN 2250-155X, Vol. 3, Issue 1, March 2013, 141-146, titled "Design of Compact Dual Frequency Microstrip Antenna for GSM Handsets".
4. Mr. Rahul Dahatonde published paper in International Journal of Electronics and Communication Engineering & Technology, ISSN 0976 – 6464 (Print), ISSN 0976 – 6472 (Online), Volume 3, Issue 3, October- December (2012), pp. 303-313, titled "Design of Radiating Edge Gap-Coupled Broadband Microstrip Patch Antenna for GPS Application".
5. Mr. Rahul Dahatonde published paper in Design and Parametric Evaluation of Rectangular Microstrip Patch Antenna for GSM Application", International Journal of Engineering Science and Technology, ISSN : 0975-5462 Vol. 5 No.01, January 2013, pp.124 – 133.
6. Ms. Anupa Subnis filed a patent (Application Number 1867/MUM2012) on 27th June 2012 titled, Method of capturing a full 360 degrees view using panoramic imaging system.

7. PHD & ME THESIS - SUBMITTED & AWARDED

Mechanical Engineering Department

| ME - Machine Design | ME- Thermal Engineering |
|--|---|
| Submitted Thesis - 5 Awarded - Nil | Submitted Thesis - 34 Awarded - Nil |
| AITAVADE NILESH SANJAY - Design analysis of blast resistant door- 2011 - Guide Prof. D. N. Jadhav- Status: Completed. | KULKARNI SHREYAS KIRAN STUDY AND NUMERICAL SOLUTION FOR SWAY PHENOMENON OF TALL STRUCTURE- 2011- Prof. D. N. Jadhav- Status : Completed |
| CHODHARI SANKET SHARAD- STRESS ANALYSIS OF NOZZLE TO HEAD JUNCTION BY FINITE ELEMENT ANALYSIS- 2011- Guide Prof. D. N. Jadhav- Status : Completed. | MARWADI SWAPNIL BHARAT- DEVELOPMENT OF METHODS FOR FFS OF PROCESS EQUIPMENT- 2011- Prof. R.B.BUKTAR- Status: Completed |
| GADKAR JAYSHREE ARUN- ESTIMATION AND VALIDATION OF STRESS INTENSITY FACTOR FOR PIPE FITTINGS- 2011- Guide Prof. D. N. Jadhav- Status Completed. | |

PHD THESIS SUBMITTED AND PHD AWARDED:

- Three Ph.D students have submitted their thesis to University of Mumbai.
- Prof. O.P.Vyas, Prof. Chandrababu will finish their PhD in the coming 3 months.
- Prof R.B.Buktar successfully completed his PhD on 14th August 2013.

ME Awarded till date

| Sr.no | Under Guidance | No. of ME Submitted/ Completed in year 2010-11 | No. of ME Submitted/ Completed in year 2011-12 | No. of ME Submitted/ Completed in year 2012-13 |
|-------|-----------------|--|--|--|
| 1 | Dr. R.B. Buktar | 2 | 1 | 3 |
| 2 | Dr.R.R.Easow | 2 | 2 | 5 |
| 3 | Dr.R.S.Maurya | 1 | 4 | 5 |
| 4 | Dr.S.B.Rane | 2 | 3 | - |
| 5 | Prof. P.K.Muley | - | 1 | 3 |

Civil Engineering Department

PHD THESIS SUBMITTED & PHD AWARDED

Two Ph.D students have submitted their thesis to University of Mumbai. One student submitted under the guidance of Dr. P. H. Sawant and another one submitted under the guidance of Dr. Prabhat Shrivastava.

ME THESIS SUBMITTED & ME AWARDED

- Shailesh H. Kajrekar: Redevelopment or retrofitting of old buildings –Pros and Cons under the guidance of Dr. Kambekar A.R
- Asif Musa Shaikh: Systematic approach of sewer maintenance and asset management with the help of Geographical Information System under the guidance of Dr. Kambekar A.R
- Sandip A. Haldive: Experimental study on combine effect of fly ash and pondash in concrete under the guidance of Dr. Kambekar A.R. (Completed)

8. OTHER NEWS

Mechanical Engineering Department

GRANTS (RPS , MODROB etc)

- Department of Mechanical Engineering received a grant of 15 lacs under MODROB scheme of AICTE for modernization of Thermal Engineering lab.
- Dr. S.B. Rane got grant of 4.25 L under RPS scheme.

PLACEMENT

- Approximately 54 students from B.E. Mechanical were placed in Campus placement this year. There are some students interested in higher education abroad and there are few more companies like Godrej scheduled after end sem exam for placement of remaining students.

Major Recruiters

L&T Engineering
Hindustan Lever
Mahanagar Gas
Reliance Industries
ACC Cement
Toyo
BPCL
Lodha Group
Johnson Control
Aker Solution
Kalpataru Power etc.

Civil Engineering Department

GRANTS (RPS , MODROB etc)

- Dr. P. P. Nagrale completed and submitted the report of AICTE sponsored Research project of Rs. 10 L under (RPS) Scheme.
- Department completed one MODROB project of AICTE and purchased traffic and transportation software and equipment worth 9 lakhs.