Guest Lecture on Software Engineering and Management Information System

Dr. S.A. Kelkar, from IIT Bombay was invited to deliver Guest Lecture on Software Engineering and Management Information System for TE Computer Engineering Students. The first session started with an introduction to software engineering followed by process management. The second session was on Project and IT management and ended with quality management. On the second day session first started with requirement analysis and elicitation followed by data models in second session. Around 120 Third Year Computer Engineering Students and faculty members were present for the workshop. Mr. Kushal Birla and Mr. T. T. Tambe coordinated the event.

Lecture by Dr. Vijay Bhatkar

Speech by Padmashri Dr. Vijay Bhatkar was organized on 25th Feb. 2012 in the Institute. Dr. Bhatkar took a review of major scientific development which took place in last 500 yrs. He said that the equation E=mc² and invention of transistor was a major breakthrough. We have taken up the challenge to educate our people. Now teachers and students have to learn simultaneously. He highlighted the importance of Cognitive Technology and solving problems of agriculture. He asked the management to encourage research and innovation towards sustainable development. It should result in more research papers in International Journals by our staff and students. Hon. Shri. Balasaheb Wagh, Trustees, Principals of various Institutes, staff members and students were present for this lecture.

Seminar on Mobile Application Development

The Dept. of Information Technology had organized a Seminar on “Mobile Application Development” by Mr. Sandip Chavarkar, Director Redlogic, Mumbai on 13th Feb., 2012 for the students of IT and E&TC. He discussed the future scope for Mobile application development. Along with him Mr. Swapan Malite and Mr. Ronit Bhattacharya guided the students with demonstrations on Application development for Android operating System.

Soft Skill Programme By Electrical Department

Electrical Engineering Department of K. K. Wagh Institute of Engineering Education & Research, Nashik organized two 5 days workshops on “Soft skills Development” for students 7th to 11th Feb. 2012. Total of 103 students in Electrical Engineering took training for Personality development with Communication Skills, Presentation skills, Group Discussions & Personal Interview techniques. Kanhai Mandnekar & Mahesh Joshi of “Step Up Training Solutions” and Dipali Salve & Amit Mishra of “D Source” Nashik conducted the workshops. Prof. T. N. Date from Electrical Engineering Department coordinated the workshop with encouragement & support of Hon. President Shri. Balasaheb Wagh, Principal Dr. K. N. Nandurkar & Head of Electrical Department Prof. Dr. B. E. Kushare.

NSS Winter Camp 2012

NSS Unit of our institute had organized special Camp during 6th to 12th Feb. 2012 at Mohagaw (Tal. & Dist. Nashik) village which is 16 Km away from this place. Total 125 volunteers including 75 boys and 50 girls have actively participated in this camp. “Total Development of village through NSS” was the main theme for this year. Under this theme volunteers have performed various activities like: family survey, health & education awareness, women upliftment via Bachatgay, water & soil testing, etc. In the camp Lecture Series various speakers guided the volunteers regarding History of India, personality development, career guidance, pollution & environment, Agro mall, etc. Through this camp volunteers came to know the problems and life style of villagers. Sarpanch and other members appreciated for the activities during the NSS Camp. Valedictory function of NSS Camp was held on 12/02/2012 in presence of Mr. M. Y. Inamdar (Ex. ACP) who spoke on career guidance for competitive exams.
**Felicitation of Hon. Shri Balasaheb D. Wagh**

Felicitation of Hon. Shri Balasaheb D. Wagh during inaugural session of Maharashtra Vigyan Samelan at Dr. Moonga institute by Dr. Vijay Bhaluka.

**Stall by Institute at Nima Index**

Our Institute was participated in Nashik Industries Manufacturer Association (NIMA-Index 2012) exhibition during 24-26 Feb. 2012 at Dongare Vasantigha, Nashik. During this exhibition large number of visitors from Industries visited the stall. Institute is helping to the Industry in their problem by providing Testing & Consultancy Services.

**Safe Driving Programme**

NSS Unit of this Institute has organized a safe drive test competition for students, in association with Hero Group of Industries on 28th Feb, 2012. About 200 students participated in this activity.

The prizes were sponsored by Hero Group. This programme was arranged to create the awareness of safe driving among the budding engineers.

**CONDOLENCE**

The Prof. Dr. Shankarappa P. Pujari, Professor in Mathematics, Science Dept. of this Institute expired on 17th Feb. 2012. He completed his Ph.D. from Karnataka University in 1978 and worked as Graduate Teaching Assistant in Michigan State University for one year. Since 1980 he was teaching at various engineering colleges. He joined this institute in January 2010 and was active in guiding the students till the last day.

**Visit to Institute by Students of Kendriya Vidyalay, Nashik.**

Fifty students of 11th & 12th standard from Kendriya Vidyalaya, Nashik Road along with three staff members visited our Institute on 04th Feb. 2012. This visit started with a small function where Prof. Dr. K. N. Nandurkar gave information about the Institute to the Students which was followed by the video session of this Institute.

They visited various departments like Electrical, Computer, Mechanical, Workshop and Central Library. Workshop department had given the demonstration of working of Lathe Machine. The purpose of their visit was to know the working of Engineering College & branches run by Institute & to know the basic difference between various branches in order to choose the correct branch of their interest as a career.

**Visit By Prof. G. Sabnis, Howard University, U.S.**

A lecture of Prof. Gajanan Sabnis (Howard University, U.S.A.) was organized for Civil Engineering students on the topic “Infra-Structure” on 04th Feb. 2012. Prof. Sabnis presented a detailed survey carried out for evaluating the infrastructure including Dams, Roads, Bridges, Parks, Drinking Water, Solid Waste management for U.S. The survey pointed out that the gradation of infrastructure in U.S. belongs to D grade and there is a need to upgrade it immediately. This was a shocking result for the World and on these lines, many countries have started their own evaluation. Prof. Sabnis urged to undertake such survey for India in general and Nashik in specific. The presentation was followed by questions answer session.

**Expert Lecture/Seminar/Courses/Worship Organized:**

- Department of Computer Engineering had organized expert lecture on ‘Introduction of cloud technologies’ on 28th Feb. 2012 Dr. Uday Wad was expert person for the program and guest lecture on ‘Financial Management’ by Dr. Shekhar Pananjpe for T.E. (Computer) students.
- Department of Electronics and telecommunication had organized following activities:
  - Group Discussion Activity on 2nd Feb. 2012 Mr. Shekhar Pananjpe was expert person of the program.
  - Expert lecture on ‘Cloud compound and Mobile application’ on 13th Feb. 2012 Mr. Sandip Chavarkar was expert person for the program.
  - Seminar on ‘Career options after Graduation’ on 22nd Feb. 2012 Mr. Kunal Dhakate was expert person for the program.
- Department of Mechanical Engineering had organized MOCK Test and Personal Interviews on 23rd Feb. 2012 Mr. Kunal Dhakate from TIMES3 Institute was expert Person For The Program.
- Department of Mechanical Engineering had organized a Seminar on Vehicle engine system and pollution control Technologies. on 29th Feb 2012. Mr. P.K. Joshi and Mr. Uday Deshmukh were expert persons of the program.
- Department of Electrical Engineering had organized following programs:
  - Youth Empowerment on 24th Feb. 2012 Mr. Kunal Dhakate L.V. Switchgear was speaker of program.
  - Career options after Graduation on 17th Feb. 2012 Ms Dipali Salve was expert person of the program.
- Department of Information technology
  - Seminar on ‘How to prepare for placements interviews’ on 24th Feb. 2012 Mr. Ravikumar Zha, Zenser Technology, Pune was expert person for the program.
  - Seminar on study abroad on 21st Feb. 2012 Mrs. Smita Bhamre from Step Abed, Branch Of Impel Overseas Nashik was speaker person for the program.
- Department of Management studies had organized Extremore programme on 4th Feb. 2012 and Orientation programme on ‘Six Sigma’ on 24th Feb. 2012 by C. Vishwanathn.

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Department of Production Engineering has organized guest lecture on "Voter’s Role in NMC, Nashik Election 2012" for Final year students on 3rd Feb. 2012.

**Seminars / Workshop / Training Attended By Staff:**
- Prof. Umesh Shirole staff member of Department of Electrotechnology had attended three days workshop on “Industrial Network and communications” during 24th Feb. 2012 to 26th Feb. 2012.
- Prof. V. K. Patil staff member of department of Mechanical engineering attended DST Cluster of projects meeting on ‘Instrumentation for agriculture and food Engineering’ on 16th Feb. 2012 to 17th Feb. 2012 at CIAE, Bhopal topic of research proposal Design and developing internal ploughing system for agriculture.
- Prof. P. K. Kawale staff member of department of Mechanical engineering attended one day workshop on ‘Finite element method using ansys and Matlab’ on 24th Feb. 2012 organized by NDMVC College Of Engineering, Nashik.
- Prof. P. P. Joshi and Mr. K. C. Sonawane staff member of department of Chemical Engineering attended two day workshop on ‘Process Engineering & Simulation’ during 28th Feb. 2012 to 29th Feb. 2012 organized by SVIT Chincholi Sinnar.

**Papers Presented By Students:**
During month of Feb. 2012, 17 students of our institute had participated in National & International Level Paper Presentation, poster presentation workshop, Model making, etc. competitions and won several prizes.

**Industrial Visits Organized by Department For Students:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Class</th>
<th>Name of Company</th>
</tr>
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<tbody>
<tr>
<td>13/02/2012</td>
<td>T.E.</td>
<td>VoltAmp Transformer Ltd Baroda Gaol</td>
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<tr>
<td>14/02/2012</td>
<td>B.E.</td>
<td>Thyssen Knupp Electric Controls Ltd, Vadodara</td>
</tr>
<tr>
<td>15/02/2012</td>
<td>T.E.</td>
<td>Enercon India Ltd, Daman</td>
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<tr>
<td>20/02/2012</td>
<td>B.E.</td>
<td>Kirloskar Electric Co, Bangalore</td>
</tr>
<tr>
<td>21/02/2012</td>
<td>B.E.</td>
<td>Schneider Electric (Motor Division) Bangalore</td>
</tr>
<tr>
<td>23/02/2012</td>
<td>T.E.</td>
<td>Godavari Bioinformatics, Koppal</td>
</tr>
<tr>
<td>24/02/2012</td>
<td>B.E.</td>
<td>Crompton Greaves Ltd, Ambad, Nashik</td>
</tr>
<tr>
<td>28/02/2012</td>
<td>T.E.</td>
<td>POF Railway Tracton, Bhusawal</td>
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**Training & Placement:**

<table>
<thead>
<tr>
<th>Name of the Department</th>
<th>Name of Company</th>
<th>No.of students selected</th>
</tr>
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<tbody>
<tr>
<td>Department of Management Studies</td>
<td>ICICI Bank</td>
<td>04</td>
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</tbody>
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**Other Achievements**
- Prof. Dr. K. N. Nandurkar was invited as session chair for the session on Solar Energy at Maharashtra Vighan Samelan, Nashik.
- Prof. Dr. K. N. Nandurkar attended the meeting of Principals of all colleges in Nashik District with Pune University officials at Raosaheb Thorat Hall. The problems faced by affiliated colleges were presented to the University Authorities.
- Prof. E. Perumal, AICTE Distinguished Visiting Professor visited institute on 27th Feb. 2012.
- Prof. Dr. S. S. Sane Head Department of Computer Engineering was invited as resource person for following events:
  - Chief Guest to Inaugurated the ‘Genesis’ student event at H.P.T RYK Science College, Nashik on 3rd Feb. 2012.
  - Session Chair at International Conference at Sandip Institute of Technology, Nashik on 12th Feb. 2012.
- Prof. M. B. Jhade, Prof. S. S. Banait staff member of department of computer engineering were invited as a Judge for Circuit Design Contest and paper presentation contest respectively for CSI Regional Student Convention 2012 from 5th Feb. 2012 to 10th Feb. 2012.
- Prof. S. S. Banait staff member of Department of Computer Engineering was invited to judge Personality Contest on 21st Feb. 2012 at K. K. Wagh Arts, Commerce, Science College, Saraswat Nagar for Youth Festival and as a resource person on 6th January 2012 for Software Testing at Jalgaoon.
- Prof. Dr. P. J. Pawar staff member of department of Production engineering has delivered expert lecture on ‘Advanced engineering Optimization’ in two day state level seminar held at Gokhale education society’s COE, Nashik on 27th Feb. 2012.
- Prof. S. R. Gangurde staff membro of department of Production engineering delivered an expert lecture on “Multi-Attribute Decision Making Method & Applications” in Two-day state level Seminar, held at Gokhale Education Societies’ COE, Nashik on 27th Feb. 2012 and expert lecture on “Applications of Value Engineering” in one-day seminar, held at Gokhale Education Societies’ COE, Nashik on 27th Feb. 2012.
- Prof. N. D. Chaudhary staff member of department of Civil engineering delivered expert talk during training for sub divisional forest engineer & Jr. Forest engineer, assistant conservator of forest on 23rd Feb. 2012 & 27th Feb. 2012 organized by Maharashtra engineering training academy, Nashik.
- Prof. Dr. Sunil Kute staff member of Department of Civil Engineering delivered expert talk on ‘High Impact...’

(continued on page 4)

- Department of Civil Engg. and K.K.Wagh Institute of Engineering Education & Research, Nashik is admitted as Member of Association of Consulting Civil Engineers(India) with effect from 20th Jan. 2012.

- Prof. Dr. B. E. Kishore, Head department of Electrical engineering offered consultancy to Vashnavi Auto Enter mode polyester, Bosch India Ltd. Nashik, EPOCS Ltd., Flyocrete Ltd.during Feb. 2012 and offered technical expertise for 3 patent revocation cases to Eversun India Pvt. Ltd.


- Prof. J.P. Shah staff member of Department of Electrical Engineering delivered expert talk on ‘smart transmission and distribution grid’ on 28th Feb. 2012 at Guru Goibind Singh Polytechnic, Nashik.

SPORTS
Ms. Mansi Mali student of Dept. of Electronics & Telecom was selected for Intentional Football tournament held at Pune.

Abstracts Of Papers Presented By Staff:

Abstract: Web mining techniques such as clustering help to organize the web content into appropriate subject based categories so that their efficient search and retrieval becomes manageable. Traditional Web Pages clustering typically uses only the page content (usually the page text) in an appropriate feature vector representation such as Bags of words, term-frequency / inverse document frequency .etc. and then applies standard clustering algorithms (eg. K-means, Suffix tree, Query directed clustering). For example, Users can provide captions for images on the internet, provide tags to Web Pages and other media content they regularly browse on the internet, etc. Therefore such user generated content can provide useful information in various forms such as meta-data or in more explicit ways such as tags. Typically, Web Pages clustering algorithms only use feature extracted from the page text. However, the advent also social -bookmarking websites, such as Stumble Upon and Delicious has led to a huge amount of user-generated content such as the information that is associated with the Web Pages. In multi-view learning, the feature can be split into two subset alone is sufficient for learning. Here as for, unsupervised learning algorithms, multiple views of the data can often help in extracting better features. Canonical Correlation Analysis (CCA) is an unsupervised feature extraction technique for finding dependencies between two (or more) views of the data by maximizing the correlations between the views in a shared subspace. The first approach is based on an annotation based probabilistic latent semantic analysis (LSA) over document

Word and tag - Word Co-Occurrence Matrices

Cam Dynamics And Vibration Control By Detecting Jump
Prof. N. S. Ahirrao, Prof. V. V. Khond (Department of Mechanical Engineering) Paper presented at International Conference on Competitiveness & Innovativeness in Engineering, Management & Information Technology on 29th January 2012 organized by Maharaaja Agrasen Institute of Management & Technology Jagadhri, Dist. - Yamunanagar, Haryana India - 135003

Abstract: Typical industrial cam-follower systems include a force closed cam joint and a follower train containing both substantial mass and stiffness. Providing the cam and follower elements in contact, the system is subject to vibrations. A force-closed train is designed to minimize vibrations in high-speed machine tools. An iterative procedure is described in an explicit manner to determine this possible condition of follower joint in a cam-follower mechanism. The jump is a situation where the cam and follower physically separate. When they come back together, the jump introduces large forces and thus large stresses, which can cause both vibrations and early failure of the mechanism. This paper will suggest different methods to detect the jump practically with the accuracy. The illustrative experimentation with results will be discussed in this paper.

Technological Aspects Of Nano Electro Mechanical Systems
Prof. V. V. Khond, Prof. N. S. Ahirrao (Department of Mechanical Engineering), Paper presented at International Conference on Competitiveness & Innovativeness in Engineering, Management & Information Technology on 29th January 2012 organized by Maharaaja Agrasen Institute of Management & Technology Jagadhri, Dist. - Yamunanagar, Haryana India - 135003

Abstract: Nanotechnology allows the materials to be built up atom by atom. One of the advancements in nanotechnology is in the field of electromechanical systems called “Nano Electro Mechanical System (NEMS)”. NEMS are characterized by small dimensions. The dimensions are relevant for the function of the devices. Critical feature sizes may be from hundreds to a few nanometers. Due to nanometer dimensions, and the use of light materials, the devices achieve performance in terms of speed, sensitivity and versatility that challenges or surpasses the limitations of technological achievement to date. The possibility of simple, low cost fabrication, made possible by developments in Nano Imprint Lithography (NIL). NEMS consume only little energy, this will allow continuous monitoring of all the important functions in hospitals, in manufacturing plants, on aircrafts, or even within the human body. This paper first discusses the manufacturing aspects of NEMS considering the latest trends in miniaturisation. Also it focuses on materials used for nanoscale components. Further it reviews the current applications in the military, defense, space, medical, & engineering. The paper also gives the various design aspects like modeling, characterization, simulation, and control for some of the applications. It also focuses on the packaging aspects nanoscale systems and its components. The paper finally gives the environmental impacts of Nano Electro Mechanical Systems.

Prof. Dr. K. N. Nandurkar
PRINCIPAL

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K.K. Wagh Institute of Engineering Education and Research, Nashik.