

■ **MoU between KPIT Technologies and KKWIEER**

An MoU was signed between KPIT Technologies Ltd., Pune and K. K. Wagh Institute of Engineering Education & Research, Nashik on 19th Sept. 2014 in our Institute Campus. Mr. Shyam Nileshwar, Group Manager, KPIT technologies, Pune and Dr. K. N. Nandurkar, Principal KKWIEER signed the MoU on the behalf of their organizations and witnessed by President Hon. Shri. Balasaheb Wagh, Vice President Shri. Kashinath Tarle, Trustee Shri. Changdev Holkar, Heads of departments of Institute and TPO. The main objective of this MoU is to initiate PACE (Program for Academic Connect and Engagement) at KKWIEER and to organize Joint training programs for students and staff, Provide Placement and Internships support to students of KKWIEER. Under this MoU, KPIT will sponsor UG/PG students' projects. KPIT will share their "Tech-talk" technical newsletter with KKWIEER and also help in bridging the gap between academia and industry and contribute to education eco system. KPIT and KKWIEER shall establish a "joint working group" for coordination.



Signing of MoU with KPIT



■ **General Book Exhibition**

Kusumagraj Central Library of our Institute organized Three Days "General Book Exhibition" on 27th to 30th Sept. 2014, in collaboration with M/s. Mukhtangan Publication, Nashik. This Exhibition was Inaugurated by Hon. Shri. Kashinathdada Tarle, Vice-President of K. K. Wagh Education Society, Nashik and Principal Dr. K. N.

Nandurkar. The guests expressed the view that this kind of Book Exhibition will help to improve reading habits.



Book Exhibition Inaugurated by Hon. Shri. Kashinathdada Tarle, Vice-President of K. K. Wagh Education Society, Nashik.

■ **Visit of Mr. Pravin Saraf, Vice President, BOSCH**

Training & Placement Cell and ISTE Students chapter of KKWIEER celebrated Engineers day on 17th of Sept. 2014 in the campus. On this occasion Mr. Pravin Saraf, Vice President BOSCH-Nashik was the chief guest. He gave the appreciation certificates and prizes to various teachers and students for their achievements in the e-library collection and Mathematics competition. On this occasion new committee members of Indian Society for Technical Education (ISTE - New Delhi) Students chapter was formed. They were felicitated at the hands of Mr. Pravin Saraf. Mr. Pravin Saraf made an excellent speech and appealed the students that "only theory will not help and they should fill the practical gap through industry visits and projects". He also told the students to explore the opportunities available during students' life and use this period to improve skills and practice self learning. He also shared his initial experience as an Engineer in the organization and told the students that in the beginning of career students should concentrate "What we learn" rather than "what we earn". More than 150 future Engineers have attended this programme. Dr. Keshav Nandurkar, Principal, delivered a welcome address.



Mr. Pravin Saraf, Vice President BOSCH giving the appreciation certificates

Two Days Workshop on "Advanced Statistical Methods for Tool & Die Design"

Department of Production Engineering organized a Two Days Workshop on "Advanced Statistical Methods for Tool & Die Design" during 13-14 Sept. 2014. The main objective of this training program was to promote the application of various mathematical programming techniques, statistical methods, and optimization techniques in the field of tool and die design. About 40 participants including faculty members of various Engineering Colleges /Polytechnics in Maharashtra as well as research scholars attended this workshop. The inauguration function was carried out at hands of Shri. Shrikant Joshi, (Director, Master-moulds Pvt., Ltd., Nashik). Practical case studies related to tool & die design were discussed in the training program to close the gap between theory and the practice of Engineering using these methods. Principal Dr. K. N. Nandurkar delivered key note speech. Dr. P. J. Pawar, Shri. Dharmesh Poria (CEO, J. P. Enterprises, Nashik), Shri. Shrikant Padhye (Chairman, SMP Engineers & Electrical Pvt., Ltd., Nashik) were resource persons for this workshop.

E-Magazine Mechage



Publication of first E-Magazine "Mechage".

First E-Magazine "Mechage" was published on 29th Sept. 2014 by Mechanical Engineering department of our Institute. Principal Dr. K. N. Nandurkar inaugurated the digital magazine in presence of Head of Mechanical Engineering department Prof. M. B. Murugkar; all teaching; non teaching staff as well as students of Mechanical Engineering. To access visit www.mechage.in.



Standing : Shah Imran, Mujtaba Ahmed, Snehal Gaikwad; From left : Prof. Kushal Birla, Dr. Shirish Sane, Principal Dr. Nandurkar, Prof. Nitin Shahane, Prof. Anand Kolapkar

Congratulations

Mr. Mujtaba Ahmed, Mr. Shah Imran and Miss Snehal Gaikwad of B. E. Computer Engineering of our Institute received 5th prize in "IBM The Great Mind Challenge" project competition for Mobile App "Bit Philes". The Team ranked in Top 15 all over India in IBM TGMC 2013. From all over India total 24,000 teams from 850 Colleges are participated in the same. The theme for IBM TGMC 2013 was Mobility. Students were supposed to submit mobile apps. Prof. Kushal Birla and Prof. Anand Kolapkar guided the students. Chairman Hon. Balasaheb Wagh, Principal Prof. Dr. K. N. Nandurkar, Head Computer Dept. Prof. Dr.S. S. Sane and all staff members appreciated the success of students.



4th HR connect on 10th Sepetember 2014

4th HR Connect 2014

T&P cell has organized 4th HR connect on 10th Sept. 2014. Mr. Joseph from ABB and our two Alumni working with ABB, Mr. Limaye Aditya Vishram and Mr. More Sandesh B. along with Mr. M. Kulkarni, CEO, Master Moulds Nashik participated in this HR Connect. Mr. Joseph discussed about the selection procedure and eligibility criteria of ABB, he also shared expectations of ABB from young Engineers. Our alumni have also shared their experience of working and Life in ABB. Mr. M. Kulkarni guided the students for the campus selection process and shared Expectations of SMEs. These HR

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managers also guided students for acquiring various skills to get the competitive placements. Around 100 final year student have taken benefit of this 4th HR connect.

■ Interactive Session by L&T Infotech

An Interactive session by Mr. Ganesh Narayanan (an alumnus of our Institute of 1996 batch, Computer Dept.) - Head of Solutions of L&T InfoTech and Ms. Kavitha Raman (team member-Campus Springboard Team) from L&T InfoTech has conducted an interactive session on 10th Sept. 2014. Around 110 Students from Comp/IT/ E&TC/ Electronics and MCA have attended this session. Mr. Ganesh shared L & T selection process and its expectations from young Engineers.

■ Expert Lecture/Seminar/Courses/Worshop Organized:

- Computer Engineering department celebrated departmental 'Teachers day' on 5th Sept. 2014 and organized Engineers day function on 15th Sept. 2014. Same department also organized KPIT interactive session for all TE computer students on 22nd Sept. 2014. Department also organized Infosys Interaction session on 25th Sept. 2014.
- Electronics & Telecommunication Engineering department organized One day workshop of Dr. D. R. Luhar, Director, Sigma Trainers and Kits, Ahemadabad on "FM to SDR radio and CR" on 3rd Sept. 2014. Organized a Seminar of Ankita Tambat and Shraddha Udawant (Alumni-Palced at KPIT) on "How to crack interview for KPIT" on 15th Sept. 2014. Organized an Expert lecture of Shri. P.G.Zambre, Deputy Executive Engineer on "Introduction to Thermal Power Station" on 16th Sept. 2014. Organized an expert Lecture of Prof. J. S. Jadhav on "Future Aspects in Engineering" on 18th Sept. 2014. Organized an expert lecture of Ms. Tanvi Sonawane and Mr. Viraj Pophale (almuni - placed at TCS) on "How to crack interview for TCS" and organized an expert elcture of Mrs. Nandita Ray, Ray Academy, Nashik on "Soft skills and email writing, formal letter writing and tips for GD and PI" on 29th Sept. 2014. Same department also organized an expert lecture of Abhijit Mahajan, Mumbai on Android on 29th Sept. 2014. Organized a Seminar of Prof. S. S. Ansari, (ELTX) on "Eagle PCB CAD Software" on 18th Sept. 2014 and organzied a Seminar of Miss. Pallavi on "KPIT/Sparkle contest" on 19th Sept. 2014. Same department also organized a seminar of

- Dr. Prof. P. K. Shabadkar, TPO, KKWIEER on "Interactive session: KPIT drive" on 9th Sept. 2014. Organized lecture of Mr. Vineet Ghare, on "Role of electronic engineer in power industry" on 11th Sept. 2014, organized a Workshop of Mr. Sujit Modi and Mr. Umesh Mishra on "Eagle PCB CAD Software" on 12th Sept. 2014. Organized a Seminar of Mr. Ravi Bhati, Sr. Engineer, Auto POP on "Introduction of Robotics" on 4th Sept. 2014 and organized seminar of Mr.Satish Jadhav, Biokit on "Introduction, Scope and application of Biomedical Instrumentation".
- Mechanical Engineering department organized Expert lecture of Mr. Datta Shinde, India soft technology Pvt., Ltd., Pune on "Hydraulics & Pneumatics Audio Software". Same department also organized an Expert lecture of Red R Organization on "Climate change & appropriate technology for Disaster management" by Mr. Mandar Vaidya on 20th Sept. 2014, organized an Expert lecture of Dr. R. K. Pant, IIT, Mumbai on "Lighter than air-Airships" on 20th Sept. 2014 and organized an expert lecture of Dr. S. B. Sonawane, GES, R. H. S. N. COE, Nashik on "Heat transfer enhancement Techniques" on 23rd Sept. 2014.
- Electrical engineering department organized Workshop by Mr. Ritesh Shah, NRC Mumbai on "iSensobotz PIC 18" during 5th - 6th Sept. 2014 and organized an Industrial Automation Workshop by Faculty of TAACT (Technocrafts Academic Institute, Ambad, Nashik) and IET Nashik Local Network at KKWIEE&R., Nashik on 23rd Sept. 2014. Same department also organized an expert lecture of Mr. Chainesh Patil on "Energy Management Systems and SCADA" on 4th Sept. 2014, organized an expert lecture of Mr.Ambrish Gokhale on "Air Circuit Breaker" on 12th Sept. 2014, organized an expert lecture of Mr. Ravindra Ang on "Industrial Automation" on 23rd Sept. 2014 and organized an expert lecture of Prof. J. P. Shah on "Mars Orbiter Mission" on 24th Sept. 2014.
- A Meeting with Mr. Vivek Sawant for discussion on 'Admission Status' for 2014-15 and future plans was arranged on 19th Sept. 2014.
- Chemical Engineering department organized an expert talk of Dr. A. B. Pandit, Professor of ICT Mumbai on "Cavitations Induced Physico-

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chemical and biological transformations” on 17th Sept. 2014 and an expert talk of Mr. Jatin Tarkas, CMD of Solar Equipments Pvt., Ltd., Baroda, Gujrat on “Design of Chemical equipments” on 20th Sept. 2014.

- Information Technology department organized a session on “Python and its Applications” by Prof. Swapnil Ghorpade, R. H. Sapat College of Engg., Nashik, organized a Video Session on “History of The First World War” on account of completion of 100 years to First World War and organized “Mock Technical Interview Sessions” for final year students conducted by Mr. Bhushan Bachhav, Senior Software Consultant, Tata Consultancy Services, Pune and Mr. Pratik Jain, Senior Software Developer, Netwin India Ltd., Nashik. Same department also organized an Inspirational Video Session by Kiran Beddi for second year students, organized an activity “Towards Dream Job” and organized a 10 days training on “Development of Aptitude and Soft Skills” by TechRel Technologies Pvt., Ltd., Pune. Same department also organized a seminar on “Why GATE exam?” by Mr. Kiran Doddi, Sr. Developer, PSPL, Pune on 6th Sept. 2014, organized a seminar on “Steps towards Free lancing” by Prof. Shital Deshmukh on 13th Sept. 2014, organized a seminar on “Privacy Signal: A data driven browser extension for online privacy policy safety indication” by Prof. Dr. Anala Pandit, Associate Professor, VJTI, Mumbai on 17th Sept. 2014. In association with T&P organized an interactive session with the KPIT team on 19th Sept. 2014 with SE, TE and BE IT students. Ms. Richa from KPIT were present for the same.
- MBA department conducted Advanced Excel Workshop for students in MBA I & II Year on 27, 29 & 30th Sept. 2014. The Program was Inaugurated by Mr. Ashok Sindkar, Advanced Excel trainer. MBA department organized an expert talk of Mr. Abhay Patil (Net Preneur at Team Effort International) on Branding through Social Networking on 11 Sept. 2014, organized an expert talk of Mr. Shrikant Mokashi on Writing Skills (Formal) & Self Image development on 17th Sept. 2014 and organized an expert talk of Art of living on “Stress Management” on 20th Sept. 2014.
- MCA department organized an expert Lecture on “Soft Skill” delivered by Mrs. Ray from Ray Academy, Nashik on 6th Sept. 2014, organized

an an Expert lecture on “Software Testing” delivered by Mr. Harshal Deshpande from Winjit Technology, Nashik on 13th Sept. 2014 and organized an expert lecture on “Microsoft Technology” delivered by Mr. Uday Waswani from Microsoft Student Partner on 19th Sept. 2014. Same department also organized an expert talk on “Cyber Crime” delivered by Mr. Kshitij Khakurdikar from ESDS, Nashik on 20th Sept. 2014 and organized an Expert talk on “Network Security” delivered by Mr. Vinod Deore from Ukay Metal Pvt., Ltd., Nashik on 27th Sept. 2014.

■ **Seminar/Workshop/Training attended by Staff**

- Mechanical Engineering department staff Prof. Rayjade G. R. & Prof. Kawle P. K. attended One day workshop at S.R.E.S.C.O.E. Kopergaon on “Lab Practices of Hydraulic & Pneumatic” on 23rd Sept. 2014.
- Production engineering department Head Prof. S. B. Chandgude and staff Dr. S. R. Gangurde, Dr. P. J. Pawar, Prof. N. B. Gurule, Prof. A. S. Relkar, Prof. S. B. Gunjal, Prof. A. B. Bhusnar, Prof. A. A. Sonawane, Prof. M. Y. Khalkar, Prof. H. U. Gandhe and Prof. Ms. N. K. Sonawane attended 2 days workshop on “Advanced Statistical Methods on Tool and Die Design” organized by Department of Production Engineering during 13-14 Sept. 2014. Same department staff Prof. S. B. Chandgude, Prof. N. B. Gurule, Prof. A. S. Relkar, Prof. A. A. Sonawane, Prof. M. Y. Khalkar, Prof. H. U. Gandhe, Prof. Ms. N. K. Sonawane and Prof. Sudesh Ray attended a seminar on “Research opportunities for College teachers in IIT Mumbai” by Dr. R. K. Pant organized by department of Mechanical Engineering of our Institute on 20th Sept. 2014. Prof. Dr. S. R. Gangurde attended function of “Engineers Day” organized by Institution of Engineers, Nashik Local centre on 15th Sept. 2014.
- Electrical engineering department staff Prof. R. K. Munje attended Coordinator’s Workshop on Control System conducted by IIT Kharagpur during 15 to 19 Sept. 2014.

■ **Industrial Visits Organized For Students:**

Date	Class	Name of Company
02/09/2014	B.E. Mechanical (Div.-A,B & C)	Nash Robotics Ltd., Satpur, Nashik
03/09/2014	T.E. Mechanical (Div.-A & B)	Nash Robotics Ltd., Satpur, Nashik
16/09/2014	S.E. Production	M/s. Dribits International Pvt., Ltd., & M/s. Samtech Engineering Pvt., Ltd., Satpur, Nashik

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Date	Class	Name of Company
17/09/2014	B. E. (E & TC)	Thermal power station, Eklahare
18/09/2014	T. E. Production	M/s. Orbital Systems (Bombay) Pvt., Ltd., and M/s. Rhythmssoft, Satpur
21-22/09/14	S. E. (E & TC)	Motwane Electronics Pvt., Ltd., Nashik
22/09/2014	T. E. Mechanical (Div.-B) & B. E. Mechanical (Div. C).	Ring Plus Aqua Ltd., Sinner, Nashik
23/09/2014	B. E. Mechanical	Forchuna Industries
26/09/2014	T. E. Electrical	Visionary Technology, Nashik
27/09/2014	T. E. (ELTX)	Shivanand Electronics Pvt., Ltd., Devlali camp, Nashik
27/09/2014	B. E. Production	Pinacle HVAC System
28/09/2014	B. E. (ELTX)	MIRC (ONIDA) Electronics Ltd., Wada
29/09/2014	T. E. Mechanical (Div.- B)	Marsman India Ltd., Janori
29/09/2014	S. E. Electrical	Motwane Pvt, Ltd., Nashik
30/09/2014	S. E. Mechanical (Div.- A, B & C)	Niphad Co Operative Sugar Factory
30/09/2014	B. E. Electrical	Times of India, Airoli, Mumbai
30/09/2014	T. E. Electrical	132kV Takli substation, Nashik
30/09/2014	S. E. Electrical	Multiquadrant Pvt., Ltd., Nashik

Training & Placement :

Name of the Dept.	Name of Company	No. of students selected
Electronics Engg.	KPIT Technologies	05
Electronics & Telecommunication	KPIT Technologies	19
MCA	AlphaSoft Infotek Ltd., selection process for Internship	06
	UMS Consultancy, Nashik selection process for Internship	03

Books Purchased in Central Library : Sept. 2014

Sr.No.	Name of Dept.	Total No. of Books purchased
1	Computer Engg.	20
2	IT	15
3	E & TC Engg.	98
4	Electrical Engg.	69
5	Production Engg.	18
6	Mechanical Engg.	67
7	Civil Engg.	54
8	Chemical Engg.	05
9	MBA	06

Papers Presented By Students:

In the month of Sept. 2014, 10 Students of our Institute participated in various paper presentations. Poster Presentation, Project Exhibition/working model contests, Programming Contest, Quiz Contest, Robotics and other competitions. Out of which

- Mr. Shivraj Kshirsagar, Mr. Amol Dange and Mr. Sachin Tuplondhe of B. E. ELTX have secured 2nd prize in project competition conducted by MET's Institute of engineering, Nashik held during 15 - 16th Sept. 2014.
- Prof. Swanand Dongare got 2nd prize in "ebook downloading" competition by chief guest Mr. Praveen Saraf, vice president, BOSCH organized by central library of our Institute.

CONGRATULATIONS



Prof. M. D. Kokate completed Ph.D. from SGGSIET, SRTM University, Nanded. His topic was "Blind adaptive multiuser detection for DS-CDMA" under the guidance of Dr. T. R. Sontake.

Sport Activities

- Our Institute Basketball team won inter college Basketball tournament 2014-15 held at S. V. K. T. Engg. College Chincholi on 1st and 2nd Sept. 2014.
- Mr. Yash Johar (Captain), Mr. Lalit Bhonge, Mr. Shantanu Pai and Mr. Shitij Bagade are selected for Nashik zone team for inter zonal tournament.
- Our Institute Badminton (Girls) team won the inter college Badminton tournament 2014-15 held at B. Y. K. College on 17th and 18th Sept. 2014 and Boys team was Runner-up in this tournament.

NSS Activities

- NSS Unit of our Institute celebrated the "Teacher's Day" by offering flowers and copy of Abraham Lincoln's Letter for teachers to all the staff members of our institute on 5th Sept. 2014.
- Prof. N. B. Gurule coordinated the event "Eco-friendly Ganesh Visarjan" organized by NSS on 8th Sept. 2014 at two locations (i.e. Gangaghat and Tapowan). In this activity volunteers appealed to donate Ganesh idols and in response to this NSS collected 2350 Ganesh idols and handed them over to Nashik Municipal Corporation.

Other Achievements

- Prof. Dr. K. N. Nandurkar was invited as Guest of Honor for the inauguration of two day's programme on 'Innovation in Design and Manufacturing' on 19th Sept. 2014 at Amrutvahini College of Engineering, Sangamner. He also delivered a keynote lecture on 'Manufacturing Competitiveness' during the workshop.
- Electrical engineering department Head Prof. Dr. B. E. Kushare offered Electrical consultancy services to Electrical Design of Kosso India Pvt., Ltd., Bosch Ltd., Nashik, Energy Audit Hindustan Times Ltd., Mumbai, Motwane Manufacturing Industries, Nashik, HT Media Mumbai, Dainik Bhaskar, Ahamadabad, DB corporation office

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press Rajkot & Illumination Audit, Bosch Ltd., Nashik.

- Electrical Engineering staff Prof. R. K. Munje conducted IET sponsored one day workshop on "Industrial Automation" at Sandip Foundation's SIEM, Nashik on September 29, 2014.
- Prof. D. P. Kadam, Asso. Professor in Electrical Engineering department delivered lecture at SVIT, Chincholi, Nashik on "Information about IET Nashik Local Network" on September 24, 2014.
- Prof. S. S. Dhamal, Asso. Professor in Electrical Engineering department delivered lecture at Matoshri Engg. College, Eklahere, Nashik on "Information about IET Nashik Local Network" on September 25, 2014. Same department staff Prof. P. M. Sonawane delivered lecture at Gokhale Engineering College, Nashik, on "Information about IET Nashik Local Network" on September 26, 2014.

■ Abstracts of papers presented during Sept. 2014:

Manufacturing of Vanillin from lignin via photo catalytic oxidation

Prof. G. N. Patil & Dr. V. S. Mane

(Presented in International Conference on "Recent Advances in Engineering & Technology" organized by M. S. Ramaih Institute of Technology, Bangalore during 4 to 5 Sept.' 2014)

Abstract: The production of vanillin is mainly through direct extraction from vanilla beans. However, to satisfy constantly increasing markets, new chemicals routes were developed. One possible path to produce vanillin based on biomass is through degradation of lignin. There are number of attempts reported for degradation of lignin to produce vanillin. The Lignin used is from the paper and pulp industry. The vanillin obtained from pulp lignin is approximately 10 percent. An attempt has been made to increase the concentration of vanillin separated from lignin. The Lignin material obtained from eucalyptus wood is used for better yield as compare to pulp lignin. The lignin is separated from eucalyptus powder by 72% H₂SO₄ process. The separated lignin is then passed through the photocatalytic oxidation in the presence of TiO₂ photocatalyst. The degradation of lignin was favorable at pH 12. Optimum values

of lignin concentration (100 mg), Time of photocatalysis (6 hr), TiO₂ Concentration (5 gm), oxidant concentration (4ml) was found. The results of the HPLC analysis shows the degradation products contained in the lignin sample. The percentage of vanillin of 23% which is higher than the concentration obtained from the pulp lignin.

■ Isolation of Mangiferin from different varieties of Mangifera Indica dried leaves

Prof. Shinde S. S. & Prof. Daware G. B.

(Presented in National conference at MIT Academy of Engineering, Pune during 5 to 6 September 2014)

Abstract: The kinetics and structural changes in the solid were studied for solid-liquid extraction from plants. Soxhlet extraction technique has been developed to extract Mangiferin from Mangifera Indica Leaves. This research aims to develop for the first time the process of mangiferin extraction from the leaves of two mango varieties, i.e. Kesar and Hapoos by using soxhlet extraction with Methanol as an extracting solvent. The study involved sampling, storage, preparation, extraction and analysis for Mangiferin. It was done by High Pressure Liquid Chromatography. The results found that Hapoos gave the highest yield of mangiferin as compared to Kesar. Extraction of Mangiferin from Mangifera Indica Leaves was carried out in a series of solvents methanol, ethanol and acetone. Maximum yield of extraction of Mangiferin was estimated in Methanol on the basis of solubility and therefore was used to investigate influence of operating parameter like particle size and temperature on the recovery in a stirred batch extractor. Particle size of 0.1-0.3 mm, 70°C temperature and methanol as a solvent were found to be the optimum parameters for the extraction of Mangiferin from the batch experimental work. Effective intraparticle diffusivity of Mangiferin in methanol was estimated using Wilky-Chang equation and activation energy of diffusion is also estimated by using Arrhenius equation.

Keywords: Mangifera Indica Leaves, Mangiferin, Batch extraction, Soxhlet Extraction, Diffusivity (D).

Prof. Dr. K. N. Nandurkar
PRINCIPAL

