



K.K. Wagh Education Society's

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

Department of Production Engineering

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Semester II of AY 2016-17

TECHNICAL NEWS LETTER

Semester II of AY 2016-17

It's a great pleasure to present our newsletter for the semester I of AY 2016-17. Department of Production Engineering has been consistently endeavoring to upgrade the skills and performance of students and staff members through various ventures.

■ Expert Lectures:

- 10 expert lectures were organized on various topics during the semester to enhance the learning experience of students and staff members of the department.
- Mr. Sunil Dhantigan, Mechanical Engineer and Lean Management Consultant, Nashik guided the participants about "How to Avoid Procrastination" on 31-12-2016.



- Mr. Vijay Kumar S. Jatti Associate Professor J S P M college of Engineering Hadapsar, Pune delivered an expert talk on the topic "Light Weight Materials for Automotive Application" on 07-01-2017.
- Mr. Subodh Deshmukh CEO, Ranghshtra Textiles Hyderabad conducted a motivational workshop on 07-01-2017 for S. E. production Engineering students.
- Mr. Atul Wagh, Senior Manager- Stamping, Mahindra & Mahindra Ltd., Nasik Plant, delivered an expert talk on the topic "Stamping for Automobiles and Stamping Presses" on 20-01-2017.
- Mr. Pritesh Ramdas Kare of Sahyadri Farms Producer Co.Ltd. guided the students about Youth in Today's Education System on 28.01.2017.
- Mr. Suresh S. Nakhate of Shraddha Group Nashik delivered an expert talk on the topic "Quality Assurance System" on 03.02.2017.
- Mr. Dipanjan Dey, Deputy Manager, Mahindra & Mahindra, Nashik delivered an expert talk on "Quality Assurance System" on 03/02/2017.
- Mr. Yuvraj Vadaje, CEO, UV Knowledge Link, delivered an expert talk on "Current scenario of

Automotive Industry & Job Prospects" on 11/02/2017.

- Mr. Rajendra Aher, Manager- Paint & Processing Methods, Mahindra & Mahindra, Nashik delivered an expert talk on "Automobile Paint process & Paint Defects" on 17/02/2017.
- Mr. Ajay Mate of Atlas Copco India Ltd. delivered an expert talk on "Lean Manufacturing for Assembly" on 25/02/2017.

■ Industrial Visits:

Industrial visits were organized to industries like Gabriel (I) Pvt. Ltd., MIDC Amabd, Nashik, Mitesh Auto Ancillary, MIDC Satpur, Nashik, Nashik Engineering. Cluster, MIDC Ambad, Nashik

and Atlas Copco, 90, MIDC Satpur, Nashik. Prof. A. S. Kamble, Prof. S. B. Gunjal and Prof. A. B. Bhusnar accompanied and guided the students to these industries

■ Staff Activities

■ Publications in Journals:

- Dr. P. J. Pawar published a paper entitled "Application of Fuzzy Rating Scale in Industrial Robot Selection" in the . Bio-nano Frontiers, Vol. 10 (2), pp. 150-152. ISSN: 2320-9593.
- Dr. P. J. Pawar published a paper entitled "Parametric optimization of abrasive water jet machining of glass fibre reinforced plastic composite using non-dominated sorting genetic algorithm-II", in the International Journal of Metaheuristics', Vol.6 (4), pp. 334-354 (Publisher: Inderscience, USA)

■ Publications in Conferences:

- Dr. K. N. Nandurkar published papers entitled "Minimization of Geometrical Errors in CNC Turning Process using ROVOP Method" and "A Survey of Factors affecting OEE in Engineering Industries" in International Conference on Manufacturing Excellence (3-4 March 2017), Organized by K. K. Wagh I.E.E.R in association with SPPU, Pune.
- Dr. K. N. Nandurkar and Dr. P. J. Pawar published a paper entitled "Predicting Production Quantity by Integrating Monte Carlo Simulation and Regression Analysis" in International Conference on Manufacturing Excellence (3-4 March 2017), Organized by K. K. Wagh I.E.E.R in association with SPPU, Pune.
- Dr. P. J. Pawar published papers entitled "Plane Magnetic Abrasive Finishing of AISI-304 Stainless Steel", "Drilling Path Optimization of Holes of

Printed Circuit Board using Modified Shuffled Frog Leaping Algorithm”, “Experimental Investigation and Optimization of Control Parameters of Cooling System for an Industrial Robot Controller Cabinet”, “Multi-Response Optimization of Burnishing of Friction Welded Al6082-T6 using Grey Relation Analysis”, “Modeling and Optimization of Wire Electric Discharge Machining, International Conference on Manufacturing”, “Analyzing Impact of E-Governance Practices and Standardized Processes on Customer Satisfaction of MHADA using TOPSIS with Reference to Pune and Nashik Board” in International Conference on Manufacturing Excellence (3-4 March 2017), Organized by K.. K. Wagh I.E.E.R in association with SPPU, Pune.

- Dr. S. R. Gangurde and Dr. P. J. Pawar published a paper entitled “Selection of Welding Electrode using Preference Ranking Organization Method for Enrichment Evaluations (PROMETHEE)” in International Conference on Manufacturing Excellence (3-4 March 2017), Organized by K.. K. Wagh I.E.E.R in association with SPPU, Pune.
- Dr. S. R. Gangurde published papers entitled “High speed forming of aluminium sheet using electromagnetic forming”, “Drawing of copper wire using stepped cone wire drawing machine: design and development” in International Conference on Manufacturing Excellence (3-4 March 2017), Organized by K.. K. Wagh IEER, In association with SPPU, Pune.
- Gurule N. B, and Dr. Nandurkar K. N. published papers entitled “Performance Improvements in Sinking Electric Discharge Machining using Powder Mixed Dielectric” and “Multi-Response Optimization of Powder Mix Electrical Discharge Machining of Cobalt Bonded Tungsten Carbide using Grey Relation Analysis” in International Conference on Manufacturing Excellence (3-4 March 2017), Organized by K.. K. Wagh I.E.E.R in association with SPPU, Pune.
- Dr. S. R. Gangurde published a paper entitled “A Study of Process Parameters of Wire Drawing : A Review” in International Conference on Manufacturing Excellence (3-4 March 2017), Organized by K. K. Wagh I.E.E.R in association with SPPU, Pune.
- Bhusnar A. B. and Dr. P. J. Pawar published a paper entitled “Modeling and Optimization of Wire Electric Discharge Machining” in International Conference on Manufacturing Excellence (3-4 March 2017), Organized by K. K. Wagh I.E.E.R in association with SPPU, Pune.
- Mandlik A. D. and N. S. Wakchaure published a paper entitled “Process Evaluation for Improving Efficiency and Utilization of Production Line of Milk Industry: Case Study” in International Conference on Manufacturing Excellence (3-4 March 2017), Organized by K. K. Wagh I.E.E.R in association with SPPU, Pune.
- N.S. Wakchaure published a paper entitled “Performance Analysis of Solar Absorber for

Different Absorber Coating Materials” in International Conference on Manufacturing Excellence (3-4 March 2017), Organized by K.. K. Wagh I.E.E.R in association with SPPU, Pune.

- Ray S. D. and Dr. S. R. Gangurde published a paper entitled “Selection of Wire Drawing Die Material using Graph Theory and Matrix Approach” in International Conference on Manufacturing Excellence (3-4 March 2017), Organized by K.. K. Wagh I.E.E.R in association with SPPU, Pune.
- Gaikwad V. S. and Khalkar M. Y. published a paper entitled “Effect of Cryo-Treated Ni-Ti Alloy and Copper Electrode on Electric Discharge Machining Performance Measures” in International Conference on Manufacturing Excellence (3-4 March 2017), Organized by K.. K. Wagh I.E.E.R in association with SPPU, Pune.
- Sangle S. B. Ray S. D. and Mandlik A. D. published a paper entitled “Modeling and Parametric Optimization of Electrochemical Machining (ECM) Of EN-31 Alloy Steel” in International Conference on Manufacturing Excellence (3-4 March 2017), Organized by K.. K. Wagh I.E.E.R in association with SPPU, Pune.

■ Workshop / Conference Organized

- A three days workshop on “Soft Computing: Applications in Engineering” was organized between 8th to 10th Dec 2016 by the department in association with Indian Institution of Production Engineers.



The main objective of the program was to promote the applications of various soft computing techniques in the field of engineering. The inauguration of the workshop was done by Dr. D. Dutta, Senior Scientist G, BARC, Mumbai. The participants gained knowledge about various soft computing techniques like fuzzy logic and genetic algorithm.

- International Conference on Manufacturing Excellence (ICMAX – 2017) was organized on 3rd and 4th Mar 2017. Eminent personalities like Dr. Indra Gunawan and Dr. Ashok Deshpande from home and abroad attended the conference. More than 80 papers were presented during the conference.



■ **Students Section**
 ■ **Eclat Invasion**

Annual technical event Eclat INVASION – 2017 was organized by Production Engineering Students' Association on 18th and 19th Mar 2017. The event invited participation of students from various technical institutes for the activities like bike mania, 60 sec to fame, save the eggstronaut, need for speed, photography and several others.



■ **Student Achievement**

- Two students of final year Production Engineering got placed through campus recruitment drives of Jindal Saw Ltd. and Amazon Ltd.
- Mr. Ujjwal Mahajan, student of TE Production Engineering received first prize at Technical Quiz competition AMALGAM 2017 organized by IIT Madras in Feb. 2017.

■ **Student Achievement**

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Prof. Dr. K. N. Nandurkar, Principal

