



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 2017-18

TECHNICAL NEWS LETTER

## Semester II of AY 2017-18

It's a great pleasure to present our newsletter for the semester II of AY 2017-18. Various activities and events were organized by the department of Production Engineering to upgrade the skills and performance of students and staff members.

### ■ 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. The details are as given below:
- Mr. Subhash D Rajguru Director, Maharudra Career and Management Academy, Nasik informed the participants about the "Startup Opportunities in Plastic Molding Industries" on 30.12.2017.
- Mr. Bhaurao M. Sonawane, Sr. Manager (HR-Training & Organizational Development) Hindalco Industries Limited, Mumbai delivered an expert talk on the topic "Advance in Manufacturing Technology" on 05.01.2018.
- Mr. Jayesh C S Pai C.E.O Access -CADD, Nasik informed the participants about "Simulation of Plant Operations, Tool Design and Industry4.0" on 13.01.2018.
- Mr. Chetan Bhaskar Thakare Business Unit Head Electrical & Software, Strama Summit Machinery Pvt. Ltd. delivered an expert talk on the topic "Automation with Mechatronics" on 25.01.2018.
- Mr. Makrand Joshi, Director, J. J. Industries, Nasik guided the participants about Productivity Improvement Techniques on 02.02.2018.
- Dr. Shripal Singh Head, Sr. Principal Scientist & Scientist In charge Central Institute of Mining & Fuel Research (CIMFR) Nagpur delivered an expert talk on the topic "Coal Science" on 16.02.2018.
- Dr. D. K. Sakhare Principal Scientist Central Institute of Mining & Fuel Research (CIMFR) Nagpur delivered an expert talk on the topic "Air Pollution" on 16.02.2018.
- Mr. Prashant V. Jagtap Hindustan Aeronautics Limited, Aircraft manufacturing Division Nasik delivered an expert talk on the topic "Quality Assurance" on 17.02.2018.
- Mr. Ajay Hyalij, Strama Summit Machinery Pvt. Ltd., Nasik delivered an expert talk on the topic "Sensor Technology" on 26.02.2018.
- Mr. Anish Kulkarni and Mr. Vaibhav Deo, M& M Ltd. Nasik delivered an expert talk on the topic "Risk Mitigation and Management on 26.02.2018.



### ■ Industrial Visits:

Industrial visits to various industries like MSRTC Workshop, Peth road, Nasik, Sahyadri Agro Farm co. Ltd., Mohadi, Nasik, Indo German Tool Room, Aurangabad, Central Institute of Plastic Engineering & Technology (CIPET), Aurangabad, Nasik Engineering Cluster, C-10, MIDC Ambad, Nasik,



Amey Industries, W - No. 77 - D, MIDC Ambad, Nasik were organized during the semester. Prof. A. S. Kamble, Prof. S. B. Gunjal, Prof. A. B. Bhusnar, Prof. S. D. Ray, Prof. V. S. Gaikwad and Prof. N. S. Wakchaure accompanied and guided the students during the visits.

### ■ Staff Activities

### ■ Publications in Journals:

- Dr.P.J.Pawar published a paper entitled "Identification of factors influencing the performance of government organizations and undertaking in India using analytical hierarchy processes" in the International Journal of Service Science with ISSN 10.1504/IJSSCI.2017.088754 on 08 Dec 2017.
- 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-I" in the International Journal of Metaheuristics with DOI: 10.1504/IJMHEUR.2017.10006782.

- Dr.P.J.Pawar published a paper entitled “Material Flow Optimization of production planning and scheduling problem in flexible manufacturing system by real coded genetic algorithm (RCGA)” in the Flexible Services and Manufacturing Journal (Impact factor:1.98)
- Dr.P.J.Pawar and Dr. K..N. Nandurkar published a paper entitled “Manufacturing Excellence for Sustainability: Indian Scenario”.
- Dr. S. R. Gangurde published a paper entitled “Benchmark Product Features using Kano - QFD approach: a Case Study” in Benchmarking: An International journal with doi.org/10.1108/BIJ-08-2016-0131.
- Dr. P. J. Pawar and Prof M. Y. Khalkar published a paper entitled “Improving the quality characteristics of abrasive water jet machining of marble material using multi-objective artificial bee colony algorithm in the Journal of Computational Design and Engineering with ISSN 10.1007/s 10696-018-9310-5.

#### ■ Publications in Conferences:

- Dr.P.J.Pawar published a paper entitled “Application of fuzzy rating scale in industrial robot selection” at the National conference on recent trends in Computer science and applications.
- Dr. P. J .Pawar and Dr. S. R. Gangurde published papers entitled “Selection of welding processes to weld mild steel using technique for order preference by similarity to ideal solution (TOPSIS) method” and “Experimental Investigation and Optimization of wire drawing processes parameters” at the International Conference on Manufacturing and Industrial Engineering.
- Prof. S. D. Ray and Dr. S. R. Gangurde published a paper entitled “Extrusion of die material selection using graph theory and matrix approach” in International Conference on Manufacturing and Industrial Engineering.
- Prof. V. S. Gaikwad published a paper entitled “A review on Abrasive Water Jet Machining” at National Conference on Recent trends in Manufacturing and Production Engineering.
- Prof. N. S. Wakchaure published a paper entitled “Performance Analysis of Spiral and Conical Receivers for the Paraboloid Dish Collector using CFD,” International Conference on Advances in Energy Research 2017.

#### ■ Faculty Development Program

One Week Faculty Development Program on “Fuzzy Logic and its Application” was organized by Civil Engineering Department in Association with Department of Production Engineering, KKWIEER, Nashik during 11 to 15 Dec 2017. The FDP covered the topics such as Mathematical foundation of Fuzzy Set Theory, Theory of Fuzzy Logic, Fuzzy Relations and Compositions, Performance Index of Fuzzy similarity Theory and Fuzzy Optimisation.

Eminent academicians and scientists like Dr. P. J. Pawar, Dr. D. Datta, Dr. Ashok Deshpande, Dr. A. L. Varne and Dr. Regulwar conducted various sessions in the FDP.

Participants expressed their feelings of satisfaction and gratitude about the workshop.

#### ■ Workshop

A two days workshop on ‘Artificial Intelligence: Research and Applications’ was organized by the Department of Production Engineering, K. K. Wagh institute of The main objective of this workshop was to promote the applications of Artificial intelligence techniques in the field of Engineering, Education and Research, Nasik in association with Engineering Education Foundation during 6-7 Jan. 2018

About 35 participants including faculty members, research scholars from various engineering institutes in Maharashtra attended this workshop. This workshop was inaugurated by auspicious hands of Dr. D. Datta (Scientist-H+, Bhaba Atomic Research Center, BARC, Mumbai). Dr. Datta also delivered keynote speech.

Dr. S. S. Sane (Head, Computer Engineering department) and Dr. P. J. Pawar delivered expert sessions in this workshop.



Dr. K. N. Nandurkar delivered a keynote address on “Research procedure: Some experiences” organized by Government Polytechnic, Nashik during one week FDP on Research Methodology and Optimization, 30 Jan -4 February, 2018

#### ■ Students Section

Various activities were planned and various events organized for the students of Production Engineering during the semester.

#### ■ Eclat Invasion

ECLAT Invasion 2018, State Level Technical Event was organized on 22nd & 23th March 2018. This event was inaugurated by Dr. Ravinder Kumar Singal (Commissioner of Police, Nashik), and Mrs. Namita Kohok (Mrs. Global United 2017- USA) along with Principal, Dr. K. N. Nandurkar, Mr. Ajinkya Wagh, Dr. P.J.Pawar, Dr. S.R.Gangurde and Dr. N.B.Gurule .

Various technical competitions were included in the event such as Logo Quiz, Poster Presentation, PPT

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Presentation, AD-MAD, Save the Eggstronaut, TV Maniac, Snookball, Neon-Cricket, Warrior, Rahasya, 60-Sec's to Fame, Human Ludo, CS/NFS & Photography. 648 students participated from various institutes.



### ■ Students Conference

2nd AIMTDR students Conference on Advances in Industrial Engineering, Manufacturing, Tool Design and Robotics was organized by the department of Production Engineering in association with Indian Institution of Production Engineers (Nashik Local Chapter) on 31st March, 2018.

The main objective of this conference was to promote the research culture in UG and PG students of various engineering institutes in Maharashtra. About 33 research papers have been received and presented in the conference. This conference was inaugurated at the hands of Dr. Paresh Gupta, Senior Manager, Design, HAL, Nashik.

Dr. K. N. Nandurkar, Principal, delivered welcome address and guided the audience. Keynote session was delivered by Dr. Paresh Gupta. Dr. S. R. Gangurde, Dr. N. B. Gurule, Dr. P. B. Kushare, Dr. M. N. Shelar chaired the sessions for this conference. Dr. P. J. Pawar (HOD Production) and Prof. Amol S. Kamble coordinated this event.



### ■ Students Achievements

- Mr. Prasad Mahale and Mr. Chandrakiran Patil (BE Production Engg.) qualified the GATE 2018 Examination in Production and Industrial Engineering (PI) Paper conducted by IIT Guwahati.
- Ms. Pallavi Kadam of TE Production Engineering was felicitated by Mr. C. M. Pandit, General Manager, Atlas Copco for being female topper in Third Year University Examination held in the year 2016-17.
- Mr. Ujjwal Mahajan, Student of BE Production Engineering (2018) was selected for Masters in Industrial and Human Factor Engineering with Scholarship award by Wright State University, Ohio, United States. He has been also offered a Graduate Instructional Assistantship at Texas State University, United States.



Prof. Dr. K. N. Nandurkar, Principal

