



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 I of AY 2018-19

TECHNICAL NEWS LETTER

## Semester I of AY 2018-19

It's a great pleasure to present our newsletter for the semester I of AY 2017-18. Department of Production Engineering has been consistently endeavoring to upgrade the skills and performance of students and staff members through various ventures.

### ■ Expert Lectures Organized

- 11 expert lectured were organised on various topics during the semester. These were conducted by eminent personalities from industru and academic field.
- Mrs. Kanchan Madnekar, Founder, Step up solutions, Nasik delivered an expert talk on the topic "How to interview interviewer" on 06/07/2018.
- Dr. Sunita Ugale Associate professor, KKWIEER, Nasik delivered an expert talk on the topic "Intellectual property rights" on 16/07/2018.
- Mr. Shubham Chaudhari, CAE support engineer, SVR Infotech, Pune delivered an expert talk on the topic "Introduction to FEAST software for finite element analysis" on 18/07/2018.
- Mr. Manohar Shete, Director, M & M Industries, Nasik guided the participants for Entrepreneurship Development on 19/07/2018.
- Mrs. Sanika Mahadeokar, Senior Executive, Sales and Project Management, Summit Engg. & Consultant Pvt. Ltd. Nasik delivered an expert talk on the topic "Basic and Advance Mechatronics system" on 26/07/2018.
- Mr. Sadashiv Gaikwad, Project and Tax consultant and Mr. RohitPatil, Business development manager ,Udyogvardhini, Nasik informed the participants about "Financial management for new start up" on 03/08/2018.
- Mr. Samson Joseph of Mahindra and Mahindra, Nasik guided the students about "Road safety" on 8/11/2018.
- Mr. Pradeep Sharma of J. P enterprises Nasik guided the students about APQP on 15/09/2018.
- Mr. Nikhil Bhadane, Press Shop In charge, M/S Shreeji Seating System, Nasik delivered an expert talk on the topic "Die design" on 22/09/2018.



### ■ Industrial Visits:

Several industrial visits were organized during the semester for enhancing the conceptual understanding of the students. Industries like Aditya Enterprises, Nasik, Kedar Foundries, Nasik, MSRTC Workshop, Peth road, Nasik, Sahyadri Agro Farm Co. Ltd and Epiroc India Ltd., Satpur, Nasik were visited. Prof. A. S. Kamble, A.A. Sonwane, M Y Khalkar, N. S. Wakchaure, S.B. Sangle and V. S. Gaikwad assisted and guided the students during the visits.



### ■ Staff Activities

Staff members of the department were active in research work and published their work in various International and national journals and conferences.

### ■ Publications in Journals:

- Dr. P. J. Pawar published a paper entitled "Manufacturing Excellence for Sustainability: Indian Scenario" in the Annual Technical Volume II, pp. 27-34 Institution of Engineers (Kolkata). ISBN: 978-81-936149-0-7
- 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 with DOI: 10.1007/s10696-018-9310-5, Available online, In-Press (Springer)
- Dr. P. J. Pawar 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, Vol. 5 (3), pp.319-328 (Elsevier).
- Dr. P. J. Pawar published a paper entitled "Sequence Optimization of Hole Making Operations for Injection Mould using Shuffled Frog Leaping Algorithm with Modification" in the Management and Production Engineering Review, Vol. 9(3), pp. 71-78.



### ■ Publications in Conferences:

- Dr. P. J. Pawar published a paper entitled “Multi-Objective Optimization Of Wire Electric Discharge Machining Process Using Artificial Bee Colony Algorithm” at the International Conference on “Advanced Engineering Optimization Through Intelligent Techniques”, organized by SVNIT Surat.
- Dr. P. J. Pawar published a paper entitled “Optimization Of Magnetic Abrasive Finishing Process Using Principal Component Analysis” at the International Conference on “Advanced Engineering Optimization Through Intelligent Techniques”, organized by SVNIT Surat.
- Dr. P. J. Pawar published a paper entitled “Multi-Response Optimization Of Burnishing Of Friction Welded Aa6082-T6 Using Principal Component Analysis” at the International Conference on “Advanced Engineering Optimization Through Intelligent Techniques”, organized by SVNIT Surat.
- Dr. P. J. Pawar published a paper entitled “Integrated Production Planning And Scheduling For Parallel Production Lines” at the International Conference on “Advanced Engineering Optimization Through Intelligent Techniques”, organized by SVNIT Surat.
- Dr. P. J. Pawar published a paper entitled “Aerodynamics analysis of Aircraft wing” at the International Conference on Recent Challenges in “Mechanical, Textile, Mining, Aerospace, and Nano-Technology” organized by Jawaharlal Nehru University, Delhi.

### ■ Patents

Dr. P. J. Pawar and others applied for three patents for their innovations on “Processes Design of spring for Switch Gear Application”, “Damage control of steam turbine shaft through implementation of Image Processing Technology for Vibration Analysis” and “Magnetic Abrasive Finishing set up for finishing of complex profile on cylindrical part” The patents with application numbers 201821014382, 201821014403 and 201821014406 got published.

### ■ Achievements

- Dr. K.N. Nandurkar, Principal, received an Award of Excellence in Institutional Leadership , by The Indian Society For Technical Education (ISTE), Maharashtra Goa Section (2018).
- Dr. K.N. Nandurkar, Principal, received an Award of Best Principal of the year by CSI Mumbai, TECHNEXT - India 2018
- Dr. N.B. Gurule, Associate Professor, received an award of Best NSS Program officer by Savitribai Phule Pune University, Pune.

Prof. Dr. K. N. Nandurkar, Principal

