

A REPORT ON

Two Days State Level Workshop on Research Challenges in Design and Analysis of Mechanical Systems

7th -8th February 2020



Organized By



“येथे बहुतांचे हित”

Department of Mechanical Engineering

Marathwada Mitra Mandal's Institute of Technology, Lohgaon, Pune

Approved by AICTE New Delhi, Recognized by DTE Maharashtra & Affiliated to Savitribai Phule Pune

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Dr. A. G. Thakur, BOS Mechanical SPPU
Dr. A. M. Kate, BOS Mechanical SPPU

Speakers

Dr. Sushil Mishra, IIT Bombay
Mr. Vidyanand Galpade, Virgo Enterprise
Dr. Ganesh Soni, Msc Software
Mr. Prashant Gaikwad, India First Robotics
Dr. Rahul Kumar Hingole, D Y Patil Akurdi
Dr. Dattatrya Parle, Simulation Centre



Objective of Workshop

The engineering design process is a methodical series of steps that engineers use in creating functional products and processes. This process is highly iterative - parts of the process often need to be repeated many times before another can be entered - through the part (s) that get iterated and the number of such cycles in any given project may vary. It is a decision-making process (often iterative) in which the basic sciences, mathematics, and engineering sciences are applied to convert resources optimally to meet a stated objective. The fundamental elements of the design process are the establishment of objectives and criteria, synthesis, analysis, construction, testing, and evaluation. Design & Analysis is a fast-growing part of mechanical Engineering where the roles of Design Engineers are highly solicited in industrial and academic research fields. The objective of this workshop is to bring together experts from academic institutions, industries, research organizations, professional and field engineers for the sharing of knowledge, expertise, and experience. Attendants from all these disciplines will find an excellent opportunity to meet important persons in fields.

Inauguration & Felicitation

The program was started with lamp lighting ceremony of goddess Saraswathi by Dr. Sushil Mishra, Associate Professor, Mechanical Engineering Department, IIT Bombay and Principal, all heads of department and coordinator.



The guest was felicitated by Dr. R. V. Bhortake, Principal, MMIT and given information about Marathwada Mitra Mandal's Trust and Marathwada Mitra Mandal's Institute of Technology (MMIT) Institute. Prof. Amol S. Bhanage, Coordinator of workshop have given brief about two days program sessions and speakers.



Felicitation of Chief Guest Dr. Sushil Mishra



DAY I: 7th February: SESSION I

Resource Person: Dr. Sushil Mishra, Associate Professor, Mechanical Engineering Department, IIT Bombay

Topic: Current Trends That Will Change the Manufacturing Industry



The speaker talked on the integration of Robotics, artificial intelligence (AI), block chain in manufacturing. The mechanical equipment is outfitted with smart sensors to collect real time data; AI further enhances productivity and the shop floor is gradually being replaced by the smart manufacturing facilities aided by the intelligent robot. Thus, technological advancements such as advanced robots, 3D printing, simulations, big data analytics, cloud and cyber securities, augmented reality are the main ingredient of productivity improving in manufacturing sector. Moreover, the important part of these technological advancements is the products are better, smarter and customized. This suggests that the future manufacturing sector is more demand oriented than the supply. It is expected that the impact of the above will be huge and there will be a shift in macroeconomic.



DAY I: 7th February: SESSION II

Resource Person: Mr. Vidyanand Galpade, Director, Vigro Technologies

Topic: Advanced Characterization Techniques in Materials Engineering

Mr. Vidyanand Galpade explained the above topics with opportunities and trends in Material Engineering. He has also given insights into Materials Engineering services. He has also given brief insights about Advanced Characterization Techniques in Materials Engineering.



DAY I: 7th February: SESSION III

Resource Person: Mr. Akash Kharote, Lead Engineer, India First Robotics, Pune

Topic: Design and Automation of Mechanical System

Mr. Akash Kharote has explained different Design and Automation of Mechanical System service providers. He insight on Internet of Things, Industrial Automation and 3D Modelling and printing. The demo of 3D Printing and robot were given to all the participants.



DAY II: 8th February: SESSION IV

Resource Person: Dr. Ganesh Soni, Lead Engineer, MSC Software Corporation Pvt Ltd, Pune

Topic: Challenges in Advanced Finite Element Simulation of Plastics

The speaker talked on finite element analysis of composite materials. It's mainly focuses on challenges with the designing composites with different case studies. The speakers also guide to participants about various key research in composites.



DAY II: 8th February: SESSION V

Resource Person: Dr. Dattatray Parle, CEO, Simulation Centre

Topic: Research Problem in 3D Printed Product Design

The speaker given insight on fundamentals of 3D printing and discover the challenges in plastic 3D printing. He explained research problems in 3D Printed Product design with demo on 3D printer.



DAY II: 8th February: SESSION VI

Resource Person: Dr. Rahul Kumar Hingole, Professor, Mechanical Engineering Dept., D. Y. Patil Akurdi Pune

Topic: Design & Analysis of Automotive Sheet Metal Components

The speaker talked on prediction of forming parameters in deep drawing process. Its main part is the development of automatic generation of forming process outline. Also covered the analysis of axisymmetric part, decision making process, development of web based expert system for metal forming.



Vote of thanks:

Prof. A S Bhanage gave the vote of thanks expressing the gratitude towards resource person for sparing their valuable time from their busy schedule. He expressed thanks to Management for supporting and to Principal for motivating to arrange the Workshop. The participants of the Workshop wish to thank all resource people, and all the staff from MMIT for their dedication to show all aspects of the process, making the Workshop is a valuable learning experience.

Number of Participants:

Number of Teachers participated	Number of Students participated	Total
37	34	71



Prof. Amol S. Bhanage

Co-ordinator



TWO DAYS STATE LEVEL WORKSHOP ON

Research Challenges in Design and Analysis of Mechanical Systems

REGISTRATION FORM

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DD / NEFT / IMPS No. : _____
Bank Account : _____
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Signature of
Participant

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Prof. R. G. Mahajan	

TWO DAYS

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Two Days State Level Workshop on Research Challenges in Design and Analysis of Mechanical Systems

7th Feb 2020 & 8th Feb 2020

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Two Days State Level Workshop on Research Challenges in Design and Analysis of Mechanical Systems

7th Feb 2020 & 8th Feb 2020

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Date: 07/02/2020

Attendance Sheet

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Department of Mechanical Engineering

Participants Feedback Form

**TWO DAYS STATE LEVEL WORKSHOP on
Research Challenges in Design and Analysis of Mechanical Systems**

Please take a moment to complete this feedback form. Your comment will assist us in improving our future workshops and seminars. Your feedback is important to us.

Evaluation

Scale: 5- Strongly agree; 4 - Agree; 3 - Satisfactory; 2 - Neutral; 1 - Disagree

Please circle the most appropriate response

1. The workshop content was Relevant, Comprehensive &
Easy to understand 5 (4) 3 2 1
2. The workshop facilitator was knowledgeable and approachable (5) 4 3 2 1
3. The workshop material was presented in a clear
& organized manner (5) 4 3 2 1
4. The workshop had clear goals and meaningful content (5) 4 3 2 1
5. I understood the concepts as presented in the workshop. 5 (4) 3 2 1
6. The activities were useful learning experiences. (5) 4 3 2 1
7. The workshop facilities and location were appropriate
& satisfactory. (5) 4 3 2 1
8. The materials provided will be useful to me. (5) 4 3 2 1
9. The knowledge and skills I learned will be useful for me. (5) 4 3 2 1
10. Overall the session was informative and valuable (5) 4 3 2 1

11. What one thing would you recommend be done to improve this workshop for future participants?

Reducing the Echo caused by the portable speaker mic and keeping the bass low so words could be heard clearly.

12. Please share any other comments or suggestions you have regarding this workshop.

Some portion of projection is hidden due to desk in front of it. So unable to see what is displayed at the bottom.

Thank you for participating, we appreciate your feedback...!!

Name of Participant: Ajay - J - yadav .
College / Institute: MMIT - Lohagan
Email ID: ajay.yadav@mmit.edu.in.
Contact Number: 9665056885



“श्रेयं ब्रह्मसिद्धिः”

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Thank you for participating, we appreciate your feedback...!!

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