



DEPARTMENT OF MECHANICAL ENGINEERING
JAYPEE UNIVERSITY OF ENGINEERING & TECHNOLOGY

(Accredited with Grade-A+ by NAAC)

A.B. Road, Raghogarh, District Guna (MP), India, Pin-473226

5-Day National E-workshop Report

Duration of Workshop: Five days; May 12-16, 2025

Platform: Googlemeet (Online mode)

Team: Dr. Bhagat Singh (Chairman), Dr Amit Sharma (Convener), Coordinators: Dr. Y.K. Modi, Dr. K.L. Dhaker, Dr. Manoj Dubey and Md Tasnim Arif

The inaugural session of the **5-Day National E-Workshop on "Functional Materials for Sustainability: Processing and Applications"** was successfully held on May 12, 2025. The session began with a warm welcome address by Dr. Amit Sharma (Convener), Associate Professor, Mechanical Engineering Department of Jaypee university of Engineering Technology, Guna, who highlighted the objectives of the workshop and the growing importance of functional materials in energy systems, smart devices, aerospace and biomedical industries for sustainable manufacturing. The workshop was formally opened by Dr Bhagat Singh, Head of the Department. Many nationally and internationally renowned speakers shared their valuable insights and experiences during program. The inaugural lecture was delivered by Dr. Sanjay Mishra (Professor, MMMUT Gorakhpur) on "Role of Lasers in Sustainable Manufacturing", providing deep knowledge into current trends and research directions in the field.

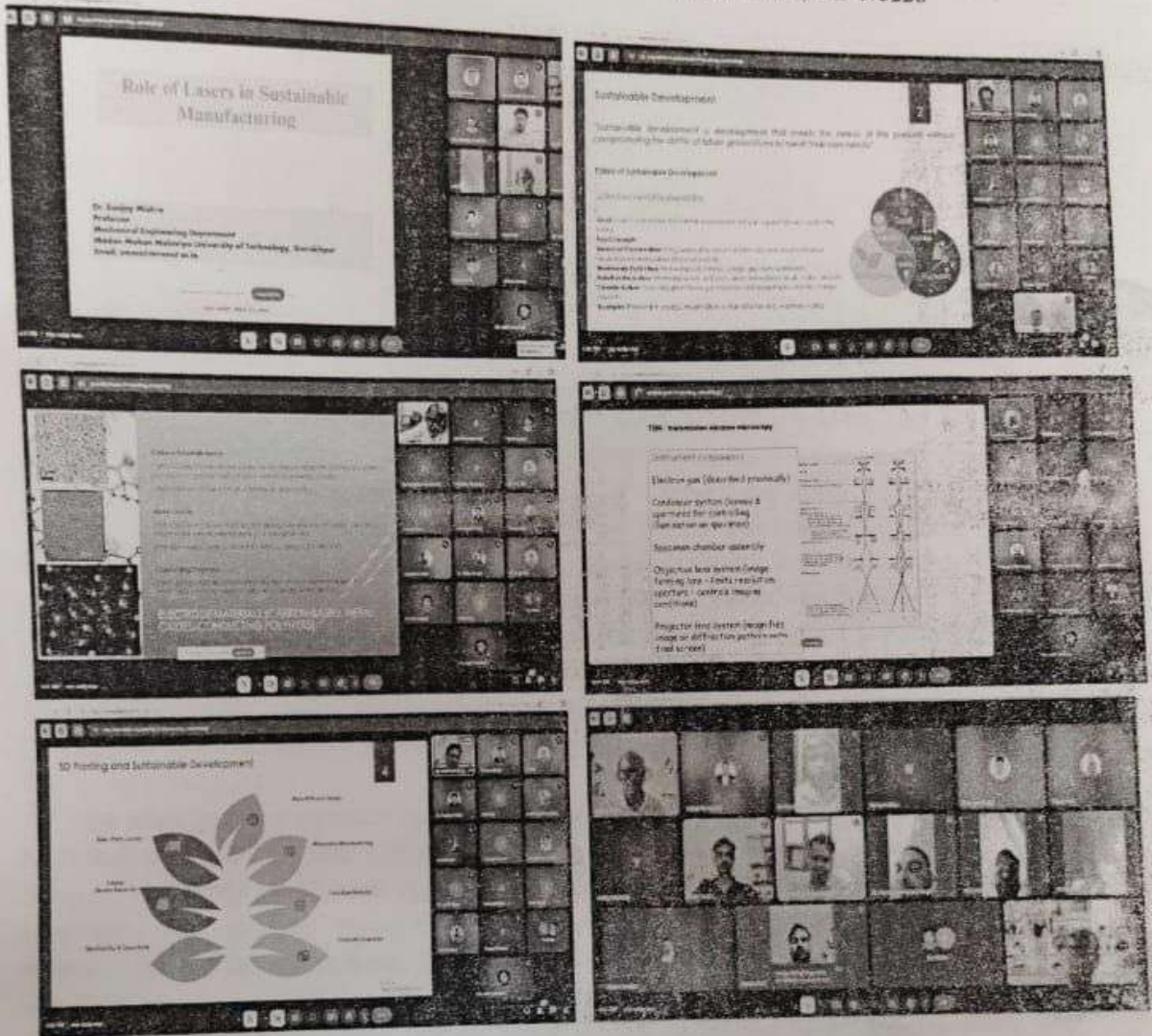
The other key note speakers were Professor S. K. S. Yadav from HBTU Kanpur, Dr. D. K. Pathak from GB Pant DSE University Campus, Okhla, New Delhi, Dr. Sankulp Goel from Nanjing University of Science and Technology, China and Dr. Param Singh from NIT Hamirpur. The speakers discussed various topics including applications of advanced materials processing, 3D printing, X-ray diffraction and hybrid micro-machining. Moreover, five speakers were invited from the university. Dr. S. K. Bobade (Physics Department) and Dr. Yogesh I Murthy delivered talk on nanomaterials for energy storage devices and on ternary phase diagrams respectively. Prof. Ghanshyam Singh, Dr Y.K. Modi and Dr. Amit Sharma from the Mechanical Engineering Department were discussed about phase change materials for thermal management, sustainable development by 3D printing materials and green composites, respectively.

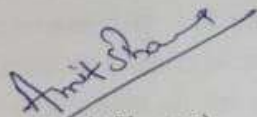
Approximately 130 participants actively participated in the program from different educational and industrial institutions across the country. The vice-chancellor sir, Prof. D. k. Rai, congratulated all the participants for taking part in the workshop. The Head of the department, Dr. Bhagat Singh expressed gratitude to all speakers and appreciated the program convener and coordinators. The workshop was well-received by the participants and met its learning objectives effectively. Participants appreciated the verity of lectures within the scope of workshop. Certificates were distributed to participants and appreciation certificates were provided to speakers. The positive feedback received from the participants reflects the quality of the sessions and the overall planning. The suggestions related internet connectivity issues will be taken into account for future workshops to enhance the learning experience further.

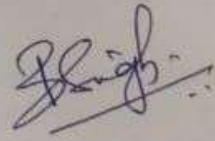
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(Amit Sharma)
Convener


(Bhagat Singh)
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