
Report of Five Days Workshop on "Concepts of Mechanical Electrical & Plumbing (MEP) and Nondestructive Testing (NDT)" March 18-22, 2024, organized by the Department of Mechanical Engineering

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Brief Report of Five Days Workshop on "Concepts of Mechanical Electrical & Plumbing (MEP) and Nondestructive Testing (NDT)" March 18-22, 2024, organized by the Department of Mechanical Engineering, Integral University, Lucknow

Department of Mechanical Engineering, Integral University, Lucknow, organized a five-day workshop on "Concepts of Mechanical Electrical & Plumbing (MEP) and Nondestructive Testing (NDT)" from March 18- 22, 2024. The workshop aimed to provide insights of the integration of Mechanical, Electrical, and Plumbing (MEP) systems with Non-Destructive Testing (NDT) methods.

By integrating MEP systems with NDT methodologies, engineers can meticulously inspect and evaluate critical infrastructure components without causing any damage, thereby minimizing downtime and maintenance costs. This synergy enables early detection of flaws or irregularities in mechanical, electrical, and plumbing systems, ranging from pipelines and HVAC systems to complex machinery and electrical circuits.

This workshop provided participants with a comprehensive understanding of MEP systems and NDT techniques through a combination of theoretical lectures and hands-on practical exercises. It also emphasized the crucial intersection between these two domains.

Day wise highlights of the workshop are as follows

Day 1:

The workshop commenced with the welcome address followed by the opening session of Mr. Ambhoj Tiwari (Director, ENTS, Lucknow) expert in Non-Destructive Testing (NDT). Mr. Tiwari delivered an extensive presentation, offering a thorough overview of the theoretical foundations that underlie NDT methods. He elaborated on the principles and techniques utilized to evaluate the integrity of materials and structures without inducing any damage. Mr. Tiwari delved into the theoretical underpinnings of various NDT methods, providing attendees with valuable insights into this critical aspect of NDT.

Day 2 :

The second day of the workshop commenced with an illuminating session by Mr. R. P. Singh (General Manager, ESTN). With his extensive expertise in NDT, Mr. Singh shared insights from his extensive experience in Plant Asset Maintenance & Inspection, focusing particularly on advanced NDT methodologies. The session included practical demonstrations illustrating diverse NDT techniques and their applications. Through dynamic lectures and interactive dialogues, attendees garnered knowledge about a range of NDT methods, including ultrasonic testing, magnetic particle inspection, radiographic testing, and eddy current testing.

Day 3 :

On the third day of the workshop, Mr. Md. Mahnawaz Chisti (Sr. MEP Design Engineer, Business Buddy Solutions, Lucknow) initiated the session with an insightful presentation on Mechanical, Electrical, and Plumbing (MEP) systems, highlighting their essential significance across various industries. Mr. Chisti emphasized the critical role of MEP systems in ensuring the functionality and safety of buildings and facilities. Using clear and relatable examples, he effectively conveyed the importance of MEP systems in our everyday lives, making the subject accessible to all participants.

Day 4 :

On the fourth day of the workshop, a practical training session was held with Mr Faisa Kamal (MEP Design Engineer, Business Buddy Solutions,Lucknow) to enable participants to apply their theoretical knowledge into practical skills. The aim of this session was to acquaint participants with industry-standard MEP design softwares like AutoCAD and REVIT.

Day 5 :

On the concluding day of the workshop, Mr. Shamikh Zafar(CEO & Founder , Business Buddy Solutions,Lucknow) illuminated the promising career prospects awaiting participants within the realms of Mechanical, Electrical, and Plumbing (MEP) systems. Through his engaging presentation, Mr. Zafar delineated various career pathways and opportunities accessible to individuals possessing expertise in MEP. Encouraging participants to explore diverse career avenues, he urged them to utilize their newfound knowledge and skills to seize exciting opportunities within the industry.

Following Mr. Zafar's session, a quiz was conducted to assess participants' comprehension of key concepts covered over the five days. The quiz winner was rewarded and certificates were distributed to all participants.

Additionally, three students were granted complimentary/free training at Business Buddy Solutions, Lucknow, as a recognition of their outstanding performance.

Approximately 50 attendees, comprising students and staff members from the Department of Mechanical Engineering at Integral University, Lucknow, participated in the workshop. This 5-day event delved into the technical aspects of MEP and NDT, offering participants a thorough comprehension of the subject matter. Through a combination of theoretical teachings, practical exercises, and insights shared by seasoned professionals, attendees gained the essential skills and knowledge required to pursue promising career paths in these rapidly expanding fields.

Workshop concluded with the vote of thanks by Prof. (Dr.) P. K. Bharti ,Head,Department of Mechanical Engineering,Integral University,Lucknow.

The workshop was coordinated by Dr Abhishek Dwivedi ,Er. Shara Khursheed & Er Kamran Rasheed Assistant Professor, Department of Mechanical Engineering,Integral University,Lucknow.

Following are the glimpses of the workshop





Regards

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 Convener (ICCMRE-2018)
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