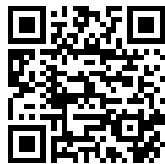**NITTTR BHOPAL**

CoE-5/2024-2025
Process and Product Digitalization
10-06-2024 to 14-06-2024
NITTTR Bhopal

Scan QR to Register

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Rationale

In today's world, everything is becoming digital, like how we do things and the products we use. Digitalization means using technology to make things easier and better. The initiative of Process and Product Digitalization is a strategic endeavour aimed at leveraging digital technologies to transform traditional processes and enhance product offerings. In an era marked by rapid digitalization, this initiative emerges as a proactive response to harness the power of technology for optimizing efficiency, improving quality, and driving innovation across various industries. In today's fast-paced and interconnected world, the digital transformation of processes and products has become imperative for businesses seeking to remain competitive and relevant. The rationale behind Process and Product Digitalization lies in harnessing the power of digital technologies to revolutionize traditional methods, optimize operations, and deliver enhanced value to customers.

Programme Outcomes

1. Recall key digital technologies and tools used in process and product digitalization.
2. Apply digital technologies to automate manual processes and improve operational efficiency.
3. Analyse existing processes and products to identify areas for digitalization and improvement.
4. Design and implement a comprehensive digitalization strategy for processes and products within an organization.

Programme Content

Digital tools and technologies for mechanical engineering, Digitalization of manufacturing processes, Virtual prototyping and simulation, Plant and Process simulations, Robot zagging, Robot kinematics. Hands on session will be conducted on software. Future trends and emerging technologies such as Artificial Intelligence, machine learning, robotics, and the integration of digitalization with sustainability initiatives.

Target Group

Faculty of Mechanical Engineering and allied disciplines

Coordinator & Co-Faculty

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