

IIC WORKSHOP ON PROTOTYPE PROCESS DESIGN DEVELOPMENT 15TH MARCH 2024



A workshop on the topic “Prototype Process Design Development” was organized for all the first year students of MBA on 15th March, 2024 in room no 207. The speaker for the event was Dr. Leeladhar Nagdeve, Assistant Professor, NIT-Delhi. He is presently working in the department of Mechanical Engineering at NIT –Delhi.

The workshop provided an invaluable exploration into Introduction: Prototype & Product design, Rapid Prototype and Additive manufacturing, Factors impacting Product Design, Process Selection, QFD, Value analysis, Quality and TQM and Conclusions. Through engaging presentations, real-world case studies, and interactive discussions, participants gained practical insights into why Prototype Product designing is required. He explained types of manufacturing systems used in cyber physical system with the help of a flow chart. He further explained the competitive challenges faced by manufacturers and then he discussed the history of prototype product design and its meaning.

Workflow of additive manufacturing process was shown and discussed with the students elaborately. Product Design Process & Break-even analysis were put in the picture to students with respect to DFM Guidelines. By the end of the workshop students were equipped with the knowledge and strategies essential for Deming Wheel: PDCA Cycle and Quality Circle. Speaker also showed models of prototype products like Lord Ganesha, aero plane, buildings which were made by the students of NIT-Delhi.

At the end there was an engaging question and answer round and many students also got a view about working in this field.

FLYER OF THE EVENT



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IIC WORKSHOP

**PROTOTYPE
PROCESS
DESIGN
DEVELOPMENT**

15th March'2024
Time : 10:00 am Onwards
Venue : Room No. 207

Dr. Leeladhar Nagdeve
Assistant Professor, NIT-Delhi

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TYPE OF EVENT	IIC Workshop
VENUE	Room no.207
TIME & DURATION	10:00 a.m. onwards
CONDUCTED BY	IIC
ORGANISED FOR	MBA (Semester -2)
NAME OF THE COORDINATOR	Ms. Veena Panjwani
ATTENDANCE	Students: 42

<p align="center">RESOURCE PERSON</p>	<p align="center">Dr. Leeladhar Nagdeve (PhD IIT Kanpur) Assistant Professor Department of Mechanical Engineering NATIONAL INSTITUTE OF TECHNOLOGY DELHI</p>
<p align="center">OBJECTIVES OF THE EVENT</p>	<ul style="list-style-type: none"> • To generate creative ideas for the design and development of the prototype process. • To introduce participants to various prototyping techniques and methodologies. • To Foster collaboration between different teams or departments involved in the prototype process. • To highlight the importance of user-centered design principles in prototype development.
<p align="center">LEARNING OUTCOME</p>	<ol style="list-style-type: none"> 1. Understanding about the importance of prototype development in the design process. 2. Students were able to identify key steps and stages involved in prototype process design. 3. Students gained proficiency in selecting appropriate prototyping methods based on project requirements and constraints. 4. They were able to develop skills in creating effective prototypes to communicate design concepts and gather feedback.
<p align="center">SHORT FALL DURING EVENT</p>	<p align="center">None</p>
<p align="center">ONLINE VIDEO LINK</p>	<p align="center">https://youtu.be/ptEIVw3_aEE</p>

PREPARED & SUBMITTED BY: MS. VEENA PANJWANI, ASSISTANT PROFESSOR, GIBS