



POORNIMA

INSTITUTE OF ENGINEERING & TECHNOLOGY

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FDP SESSION

FUTURE SCOPE OF ADDITIVE MANUFACTURING

DATE- FEBRUARY 06-11, 2023

TIME- 09:00 A.M TO 03:00 P.M

VENUE- IDEA LAB, PIET

Introduction:

A Faculty Development Program (FDP) was conducted on the future scope of additive manufacturing from 6th to 11th February 2023 at the Idea Lab. The program was led by Nitin Mukesh sir, an expert in additive manufacturing and Reshma Kala ma'am, an innovation and design thinking specialist. The focus of the program was to introduce the latest trends in additive manufacturing and how they can be utilized in various industries.

Day 1:

On the first day of the FDP, Nitin Mukesh sir started the session by providing an introduction to additive manufacturing, also known as 3D printing. He explained the different types of 3D printing techniques, including Fused Deposition Modeling (FDM), Stereolithography (SLA), and Selective Laser Sintering (SLS). He also discussed the advantages of 3D printing, including faster prototyping, design flexibility, and reduced waste.

Reshma Kala ma'am then took over and introduced the concept of innovation and design thinking, and how it can be applied to additive manufacturing. She demonstrated how innovation and design thinking can be used to create new products and enhance existing ones using 3D printing.

Day 2-5:

Over the next four days, the participants were given hands-on experience with 3D printing. They were provided with a 3D printer and were guided by experts from the Idea Lab on how to operate it. They were also given a task to design and create a simple product using 3D printing, which they presented to the group. The participants were able to learn about the intricacies of the 3D printing process and the different factors that need to be taken into consideration when designing a product.

Day 6:

On the final day of the FDP, Nitin Mukesh sir discussed the future scope of additive manufacturing and how it can be utilized in different industries. He talked about the latest developments in 3D printing, such as the ability to print with metal, biocompatible materials, and electronics. He also discussed the challenges involved in incorporating these technologies into businesses, such as the initial investment required, training requirements, and maintenance costs.

Reshma Kala ma'am concluded the session by discussing the impact of additive manufacturing on the future of the manufacturing industry. She emphasized the importance of innovation and design thinking in the manufacturing industry and how 3D printing can facilitate this process. She also discussed the potential of additive manufacturing to disrupt traditional manufacturing processes and create new opportunities for businesses.

Conclusion:

The FDP on the future scope of additive manufacturing was a great success, with the participants gaining valuable insights into the latest trends and developments in 3D printing. The hands-on experience provided them with practical knowledge on how to operate a 3D printer and create innovative products. The discussions on the future scope of additive manufacturing gave the participants a glimpse into the potential of 3D printing and its applications in different industries. The Idea Lab plans to conduct similar FDPs in the future to continue to promote the latest technologies and their applications in the academic community.



