DEPARTMENT OF DESIGN

DELHI TECHNOLOGICAL UNIVERSITY
(Formerly Delhi College of Engineering)
Shahbad Daulatpur, Main Bawana Road, 110042

Dated: 08/06/2021

3D PRINTING IN PRODUCT DESIGN
|| 1 Week FDP Programme 2021||

1 WEEK FDP 2021 3DPIPD

The Centre for Industrial Design and Ergonomics, Department of Design, DTU is organizing a faculty development program on 3D Printing in Product Design during 5th to 9th July 2021, to give the participants in-depth details of additive manufacturing in product design. The speakers are selected to give the best of both worlds from academics and industries. The academic speaker will introduce the basic and advances additive manufacturing, whereas the industrial expert will emphasize the skill required to print a prototype through an additive manufacturing technique.

Additive Manufacturing (AM) has become a new tool for part-to-part nowadays to benefit product designers. Additive Manufacturing is one solution to cater to the market's paradigm shift from mass production to mass customization. Hence, turning companies towards AM for quick, simplified, and better manufacturing. The application of AM technology increased in every horizon of the product design industry such as automobile, aerospace, biomedical, and so forth. The wide range of AM techniques from low cost to high end makes it suitable for solopreneurs to entrepreneurs, start-ups to large companies. The cost-effectiveness of the AM set-up allowing more professional to introduce their ideas to the world.

Topics covered in the Course:

1. Introduction of Additive Manufacturing
2. Application of Additive Manufacturing
3. Design for Additive Manufacturing
4. Product design process for Additive Manufacturing
5. Reverse Engineering through 3D printing
6. Materials for 3D printing
7. Generative Design and Topology
8. Benchmarking in Additive Manufacturing
9. Interaction with Industrial Experts
10. Demonstration of 3D printing

Outcomes of the Course:

1. Understanding of Additive Manufacturing Concepts
2. Prototype development through Additive Manufacturing
3. Effective use of Additive Manufacturing in Product Design
4. Product design optimization and validation through Additive Manufacturing
5. Understanding of 3D printing process parameters to print a prototype
6. Application of Generative Design and Topology in product design and printing
7. Understanding of handling of AM machines

Experts:

Prof P. M. Pandey, IIT Delhi

Prof. Abid Haleem, JMI Delhi.

Prof. R. K .Garg, DCRUST, Murthal

Prof. Qasim Murthaza, DTU

Prof. P. K. Jain, IIIT DM Jabalpur

and many more....

Participating Industries:
Siemens,

HP Printing,

Solize, 4D

Simulation,

ShaperJet

Chairman
Prof. Ranganath M. Singari, Head, Department of Design, DTU

Co- Chairman
Prof. Sudhir G Warkar, Head, Applied Chemistry, DTU

Coordinators
Dr. Harish Kumar, Head, Dept. of Mechanical Engineering, NIT Delhi
Dr. Qamar Tanveer, A.P., Dept. of Mechanical Engineering, IPEC Ghaziabad

Organized by:
Centre for Industrial Design and Ergonomics, Department of Design, Delhi Technological University

Who can Apply:
1. Faculty members of engineering colleges working in mechanical/production/industrial engineering and allied departments.
2. Research Scholars, who have an aptitude to work in the area of 3D printing and desire to take up teaching profession as their career.
3. Professional with research profile in institute such DRDO, BARC, ISRO, BEL, BHEL, and so forth.

🔶 Registration Link: https://forms.gle/HzvvkDvMGJaeC3qq7

🔶 **Registration Deadline**: **25th Jun**e **2021**, **11pm**.

Note-

1. Please Fill the Google form after payment is completed.
2. Program Fee: ₹ 2,000
3. Upload payment receipt and other details asked correctly.
4. Further details would be issued on the mail of the registered applicants.

For Details please contact:
Dr. Qamar Tanveer, Faculty Coordinator. 3DPIPD +91 98915 82628
Research Coordinators- Mr. Mohd. Tayyab: +91 6395523958, Ms. Anuradha : +91 8054571970, Mr. Shahid Ahmed : +91 9897666889

Chairman
3DPIPD