

One Week Faculty Development Programme on

EMERGING TRENDS IN 3D PRINTING & COMPUTER AIDED ENGINEERING

11th – 15th, July 2022

Jointly Sponsored by



Coordinators

Dr. Anurag Dixit, HoD (MAE)

Dr. D.K. Pathak

Dr. Anil Kumar

Mr. Mukesh Kumar

Organized by

Department of Mechanical & Automation
Engineering

G. B. Pant DSEU Okhla 1, Campus,
New Delhi-110020

About the Programme:

The Primary objective of this course is to explore the fundamentals and advances in 3D printing and CAE by providing a common platform to interact with the experts of the field. 3D printing system is used by designers for more than 30 years as a prototyping tool to reduce the product realization time. In the last decade it gained attraction as an inevitable manufacturing technology for various fields such as Defence, Medical, Aerospace and Automobile.

Programme Objectives and Outcomes:

- ✓ To provide a forum to exchange views, ideas & the latest innovations in the field of 3D Printing & Computer Aided Engineering.
- ✓ To offer learning on basics, emerging trends & challenges in the field of 3D Printing & Computer Aided Engineering.
- ✓ To improve faculty's ability in carrying out research, testing & consultancy in 3D Printing & Computer Aided Engineering.
- ✓ To introduce 3D Printing & Computer Aided Engineering and to provide opportunities to further widen the knowledge and to pursue research.
- ✓ To enable participants to design/develop the industrial, real-life, and pedagogical applications.
- ✓ To bridge the gap between academic learning and industry demands in the field of 3D printing technology
- ✓ The participants are going to gain extensive details of subject knowledge along with practical knowledge.
- ✓ Case studies and practical examples enrich their concept in the field of 3D Printing & Computer Aided Engineering and it will help them to do better teaching and to conduct research activities at their institutes.

Programme Contents:

- Product Design and Simulation
- Demo of 3D Printers & 3D Scanners
- Overview of Lifesciences/Bioprinters
- Expert Lectures on 3D printing & CAE
- Hands-on experience with CAE Software
- Design Challenges
- Industrial Visit

About DSEU:

The Delhi Skill and Entrepreneurship University (DSEU) was established in August 2020 by the Government of NCT of Delhi to equip students with world-class skill education to enable access to aspirational jobs and inculcate entrepreneurial mindset and entrepreneurship. DSEU aims to create a win-win for the youth and the industry by filling the existing gaps in skill training. The University has twin objectives-

- To change the existing paradigm of skilling, make skill acquisition aspirational and provide an opportunity to all for skilling, up-skilling, and re-skilling.
- Support and nurture entrepreneurs and entrepreneurship

The University will offer courses to people from all walks of life and empower the marginalized and minority groups by providing them with an opportunity to attain world-class education. The University aims to develop aware and well-rounded citizens.

The University wishes to change the existing paradigm of skilling, making skill acquisition aspirational and providing opportunities to all for skilling, up-skilling and reskilling. Besides, DSEU will support and nurture entrepreneurs and provide quality mentorship to steer the entrepreneurial journeys of those interested, by providing incubation, and constant support.

About ALTEM:

Altem Technologies (P) Ltd is a leading Product Lifecycle Management (PLM) Software Partner for Dassault Systems and distributor of 3D Printers from Stratasys Ltd., in India since 2010. With PLM Software solutions like CATIA, DELMIA, 3DVIA, ENOVIA & BIOVIA from Dassault Systems along with FDM (Fused Deposition Modelling) & Polyjet technology based 3D Printers from Stratasys Ltd, 3D Scanners from Artec 3D, CAE solutions from MSC software and Optimization solutions from ESTECO, we deliver a complete 3D solutions. ALTEM passionately unite with such teams to take on today's challenges for our customers and help them in achieving their innovation goals faster.

About MAE Department:

The department of MAE was established in 2007 with a vision to foster quality technical education in meeting the growing demand for technical manpower in the industrial sector. Equipped with very expensive up-to-date machines, the labs of the department are considered to be one of the best labs in Delhi region. This helps the students to be trained in the highest order to meet academic and industrial purposes. It was originally founded in the year 2007 by the Govt. of NCT of Delhi to run B. Tech programs & boasts of its excellent UPSC qualified faculty, distinguished alumni & some of the brightest minds competing year on year through the JAC counselling. The department offers four year B.Tech. Programme in Mechanical and Automation Engineering and two years M.Tech. Programme in Mechanical Engineering with specialization in Design, Production and Thermal Engineering branches. The department is equipped with high-efficiency CIM, ROBOTICS, AMM, IC Engine, Mechatronics, RAC, Workshop, Fluid Mechanics, KOM and Fluid Systems labs. Our students are regularly placed in top organizations like TCS, Infosys, Maruti, Amazon, Byju's, Godrej, Accenture, Ericsson, Hitachi etc. with above industry packages.

Registration:

The registration for the FDP program is through online mode by filling the details in google form using the link appended below.

Link:

<https://forms.gle/z4JmgxDpyzR2wYF36>

The FDP program will be offered in contact mode and is limited to 45 participants on first come first serve basis.

LAST DATE for registration: 10-07-2022

Registration Fee:

There is no registration fee for the course.

Confirmation of Participation:

On receipt of the registration form, eligible participants will be sent a confirmation of their participation through email. Participants are requested to register at the earliest. E-Certificates shall be issued to those participants who have attended the program with a minimum of 80% attendance and participated in the design challenge.

Eligibility:

The faculty members of the technical institutions, research scholars, participants from Government, Industry (Participants from Industry, etc.) are eligible to attend the programme.

Chief Patron:

Prof. (Dr.) Neharika Vohra

Vice Chancellor, DSEU, New Delhi

Patron:

Prof. (Dr.) Dipali Bansal

Campus Director, G.B Pant DSEU Okhla 1 Campus, New Delhi. 110020

Organizing Secretary:

Prof. (Dr.) A.K. Chanda

Professor, MAE Department, G.B Pant DSEU Okhla 1 Campus, New Delhi. 110020

Programme Coordinator (ALTEM)

Mr. Ramnish Sharma

Regional Manager - North

Programme Coordinators (DSEU)

Dr. Anurag Dixit

Assistant Professor & HoD (MAE)

Mobile No: +91-93106 87812

anurag.dixit@dseu.ac.in

Dr. D.K. Pathak

Assistant Professor (MAE)

Mobile No: +91-98996 28828

dayanidhikrishana.pathak@dseu.ac.in

Dr. Anil Kumar

Assistant Professor (MAE)

Mobile No: +91-93556 91075

anil.kumar1@dseu.ac.in

Mr. Mukesh Kumar

Assistant Professor (MAE)

Mobile No: +91-96511 46988

mukesh.kumar2@dseu.ac.in