

Overview of the online ATAL-FDP

The 3D printing is a process of making product directly from 3D CAD model data, usually layer upon layer, as opposed to subtractive manufacturing, such as traditional manufacturing. Manufacturing of highly complex geometry can be produced directly via 3D printing. The participants will learn through lectures and interaction session with experts on 3D modelling and printing of product. The goal of this course is to provide the participants with an opportunity to conceive design and implement products quickly and effectively using the 3D Printing technology. This course is also focused to explore interdisciplinary applications of 3D printing, challenges and research issues in current scenario.

Objectives of the workshop

The course is designed to impart knowledge and skills related to 3D printing technologies, selection of material and equipment and develop a product using this technique in Industry 4.0 environment.

Topics to be covered in workshop

- Introduction of 3D printing process, Classification and Advantages
- CAD for Additive Manufacturing
- Materials for 3D printing
- Additive Manufacturing Techniques
- Materials used in Additive Manufacturing: Non-Metal, Ceramics, Polymers
- Selection of materials and their properties for 3D printing
- Post Processing: Requirement and Techniques
- Inspection and testing of product quality

ORGANISING COMMITTEE

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Central University of Jharkhand, Ranchi

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Co-ordinator

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AICTE Training and Learning (ATAL)



Academy Programmes

on

"3D Printing and Design (ATAL-3DPD)"
(13th-17th January 2022)

Five Days Workshop/FDP
Sponsored by



All India Council of Technical
Education, New Delhi

Organized by



Dept. of Nanoscience and Technology
Central University of Jharkhand
Brambe, Ranchi-835 205
Jharkhand

About Central University of Jharkhand

The President of India gave assent to The Central Universities Act, 2009 that envisages establishing and incorporating universities for teaching and research in the various states. The Central University of Jharkhand came into being under this Act on 1st of March, 2009. The University started with a vision to specially focus on relevant present age educational drives with an emphasis on research in cutting edge technologies. It offers 5 years integrated courses and 2-year post graduate and Ph.D. programmes. The University is open to new ideas in course curricula and research proposals, collaboration, interaction and capacity building programmes. Our bright students with excellent technical skills have always been contributed to the successes of various sections towards the technical group. The present campus of the University is located at Brambe, a 25 km drive from Ranchi city, in the State of Jharkhand, India. It located in 45 acres beautiful and vibrant green campus. The entire campus consists of administrative and academic building, workshop, library and community centre, residential area accommodation for students and staff and other general amenities

About Department

The Department of Nanoscience and Technology (formerly known as Centre for Nanotechnology) was started in July 2010 under the School of Engineering and Technology, which offers 5 years integrated M. Tech., 2 years M. Tech. and Ph.D. programs in Nanotechnology. The department is committed to provide state-of-the-art teaching and research facility to the students. The department has highly motivated and deserving faculties having

ample experiences in teaching and Research. The faculties have total eighty four (84) publications in the UGC indexed international reputed journals of average impact factor three to four, one (01) international commercialized patent, six (12) book chapters. The department is running four (04) projects of approx. two crore funded by the DST, MHRD and UGC. The graduated students of the department are shining their talent to the various institutes of national and international importance in the world. In future, the centre has also planned to establish high quality research unit on the area of nanotechnology and to design different functional device serving for mankind.

ATAL Academy

AICTE Training and Learning (ATAL) Academy is established with the vision "To empower faculty to achieve goals of Higher Education such as access, equity and quality". ATAL academy will conduct a series of workshops in thrust areas identified by AICTE

Prospective Participants

The faculty members of the AICTE approved institutions, Research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry etc.)/School Teachers and staff of host institutions. Number of participants for the course are limited to two hundred (200).

Key Points

- No registration fee for the participants.
- Number participants is limited to 200.
- Participants shall be selected on first come first served basis
- Selected participants will be intimated by email.
- Confirmation of participation by email is compulsory.

Registration

The registration has to be done only through ATAL academy. For registration please visit <https://atalacademy.aicte-india.org/login>. Log in as participants and locate 3D printing & Design during 13th to 17th January 2022 with Application No: 1614764179.

Important dates

Last date for Registration 05th January, 2022
Intimation of selection 07th January, 2022
Confirmation by participants 09th January 2022

Resource Persons

The Faculty from reputed institutions /organizations/industries who are broadly working in the area of 3D printing and design at research and application level will deliver lecture.

Certificate

E-Certificate will be issued to those participants who have attended the programs with minimum 80% attendance and scored minimum 60% marks in the test. The e-certificate will be provided by ATAL academy through their website after successful completion of the FDP. The participants also have to provide compulsory online feedback on the last day of FDP. The link for ATAL-FDP lecture: <https://meet.google.com/xvk-vfsi-ghy>

Contact Details

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