



झारखण्ड केन्द्रीय विश्वविद्यालय
Central University of Jharkhand

AICTE Training and Learning (ATAL) Academy
Programmes

On

“3D Printing and Design (ATAL-3DPD)”

(03rd- 07th February 2020)

REGISTRATION FORM

1. Name.....
2. Designation
3. Qualification.....
4. Organization.....
5. Affiliation & Address.....
6. Age
7. Gender (M/F)
8. E-mail.....
9. Mobile.....
10. Govt. Id/Aadhaar No.....

Date: _____ Signature of the Applicant

Recommended

The application is hereby recommended & permitted to attend the above ATAL Academies Programme for the notified duration, if selected.

Signature and seal of HOD/ Head of organization

ORGANISING COMMITTEE

PATRON

Prof. Nand Kumar Yadav 'Indu', Vice-Chancellor,
Central University of Jharkhand, Ranchi

Advisory Committee

Prof. S. K. Samdarshi, Dean (SET), CUJ, Ranchi
Prof. S. Medhekar, Dean (SNS), CUJ, Ranchi
Prof. R. K. Dey, Prof., DOC, CUJ, Ranchi
Prof. H. P. Singh, Head (DWEM), CUJ, Ranchi
Prof. Manoj Kumar, Dean (Acad.), CUJ, Ranchi
Prof. S. C. Yadav, Head (DCS), CUJ, Ranchi
Dr. Ajai Singh, Assoc. Prof., DWEM, CUJ, Ranchi

Local Organizing Committee

Dr. Arun Kumar Padhy, Assoc. Prof., DOC, CUJ, Ranchi
Dr. Devdas Bhikulal Laata, Assoc. Prof., DEE, CUJ, Ranchi
Dr. A. S. Bhattacharyya, Asst. Prof., DNST, Ranchi
Dr. Lawrence Kumar, Asst. Prof., DNST, CUJ, Ranchi
Dr. Sachin Kumar, Asst. Prof., DEE, CUJ, Ranchi
Dr. Birendra Bharti, Asst. Prof., DWEM, CUJ, Ranchi
Dr. Dharmendra Singh, Asst. Prof., DOP, CUJ, Ranchi
Dr. Ramesh Oraon, Asst. Prof., DNST, CUJ, Ranchi
Dr. Sushil Kumar Shukla, Asst. Prof., DTST, CUJ, Ranchi

Co-ordinator

Dr. Gajendra Prasad Singh, Associate Professor, Dept. of
Nanoscience and Technology, CUJ, Ranchi

Key Points

- No registration fee for the participants.
- Participants will have to make their own stay arrangement during the five days.
- Only tea during sessions/working lunch will be provided to the participants.
- No TA/DA will be provided to the participants.
- A test shall be conducted at the end of the program and participants will be awarded a certificate of participation of 5 days FDP from ATAL Academy

AICTE Training and Learning (ATAL)



Academy Programmes

on

“3D Printing and Design (ATAL-3DPD)”

(03rd- 07th February 2020)

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 (6) 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.

Overview

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 Course

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
- Additive Manufacturing Techniques
- Selection of materials and their properties for 3D printing
- Post Processing: Requirement and Techniques
- Inspection and testing of product quality

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

This workshop is open for participants from academic Institution including faculty members, post graduate students and PhD scholars from AICTE approved technical institutions. Number of participants for the course are limited to **fifty**.

Important dates

Registration before 15th January, 2020
Communication of acceptance 17th January, 2020
ATAL dates 03rd - 07th February 2020

Note

- Participants can apply by filling ONLINE registration form from URL: <https://docs.google.com/forms/d/e/1FAIpQLScqMMOhz3eZYX82BKRw75m4TnjoHawEbX9batqo-zzrgi8y1g/viewform>
- For more details visit website: www.cuj.ac.in
- Submit scanned copy of the Registration form to confirm the participation on/or before 15th January 2020 on email: gpsinghcuj@gmail.com

Resource Persons

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.

Address for correspondence and clarifications

Dr. Gajendra Prasad Singh, Associate Professor

Dept. of Nanoscience and Technology
Central University of Jharkhand, Ranchi

E-mail: gpsinghcuj@gmail.com

Mobile: 7903646516, 9470966245