



### Eligibility

The programme is open to the Assistant Professors/Associate Professors/Ph.D. scholars/PG students from the HEIs from the same city/within 100 km of host institute.

### About Department

The Department of mechanical Engineering at IIT Tirupati, started functioning from the inception of the institute. Department comprises thirteen full-time faculty members, twelve staff members and is home to about two-hundred undergraduate students, and more than sixty graduate students. Faculty members are actively engaged in teaching, research and consultancy projects. Our areas of research covers both traditional and emerging fields, and include combinations of theoretical modelling, experiments and computational analysis. Our faculty also collaborate extensively with colleagues and peers in other national, international institutions, research organizations and industries. Our major thrust areas in research include Advanced Manufacturing, Advanced Materials, Renewable Energy, Theoretical and Applied Mechanics and Precision Agriculture and Food processing.

### About the AICTE-ATAL

All India Council for Technical Education (AICTE) through its newly established AICTE Training And

Learning (ATAL) Academy have started unique faculty development programs in various thrust areas of modern technology. 200 such programs have already been conducted in various government institutions in FY 19-20. Seeing the success of this initiative, ATAL Academy have announced to organize ATAL's Continuous Professional Development Programmes (CPDP) /Faculty Development Programmes 2022-23 to enhance application of knowledge in emerging thrust areas, critical thinking, problem solving, team building and project management.

### Objectives of FDP

- ❑ To provide overview on the importance of additive and smart manufacturing for biomedical applications.
- ❑ Enabling participants to understand the Recent Advances in additive manufacturing of biomedical implants.
- ❑ Bio Polymers compatibility & Cells interaction with 3D Bio Surfaces
- ❑ Applications of 3D Bio-Printing in Human Organs Printing



### Registration

- ❖ There is no Registration fee
- ❖ For participant registration , please visit

Link:

<https://www.aicte-india.org/atal>

### Contents of the FDP

- Overview of additive and smart manufacturing in line with biomedical field.
- Development of Bio-Inks for 3D Bioprinting
- Bio and rheological characterization of 3D Bio Inks towards biomedical applications
- Applications of additive manufacturing in Human Organs Development
- Latest trends in smart manufacturing towards implant manufacturing.

### Test and Certificate

- A test will be conducted by the coordinator at the end of the program.
- The certificates will be issued by ATAL academy to those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.

### Contact Person

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