

Industry - Academia Conclave 2022 On Manufacturing

Date: 7th January 2022

Venue: IIT Tirupati campus, Yerpedu.

About IIT Tirupati

The Indian Institute of Technology Tirupati (IIT Tirupati), established in 2015, is an autonomous Institute under the Ministry of Education, Government of India. It is declared as an Institute of National Importance under the Act of Parliament of India (Institutes of Technology Act, 1961).

IIT Tirupati, one of the youngest IITs created by the Government of India, started serving the nation in 2015 – with a Vision to be a leading centre of higher education with global outlook and local relevance. Our objective is to nurture scientists and technologists of the highest calibre, who would engage in research & technology development to help building India towards self-reliance in her technological needs.

Built over a sprawling 548 acre complex, IIT Tirupati offers courses in Civil, Computer Science, Electrical, Mechanical and Chemical Engineering fields. There are 1250 students currently pursuing Bachelors, Masters and PhD programmes. The Institute is also engaged in original research and industrial consultancy in all the above Engineering fields. 83 sponsored research projects amounting to approximately 144.2 crores & 85 industrial consultancy assignments amounting to around Rs. 8.3 crores are currently being undertaken.

With a dedicated airport and proximity to both Chennai and Bengaluru, Tirupati city has excellent connectivity.

With all the right ingredients and the commitment & motivation of the entire team to achieve its Vision, IIT Tirupati is poised to develop into an Academic and Research Institute of great repute.

About Industry Academia Conclave

Establishing and nurturing a close association with the Industry is absolutely essential to realise the Institute's objectives. In order to build a win-win partnership with the Industry, it is necessary for the industry to know the facilities and competencies of the Institute and the Institute to understand the needs of the industry better. As a first step towards enabling this, IIT Tirupati Centre for Sponsored Research and consultancy is organizing an "Industry – Academia Conclave".

Objectives of Industry Academia Conclave

- To bring Academia (Faculty, Researchers and Students) and Industry together for an open interaction for sharing of knowledge, experience, expertise and technologies.
- To introduce the Institute's facilities and competencies to the Industry
- To understand the areas wherein the Industry would like to collaborate with the Institute gainfully. Understand the gaps between the Industries' expectations and academic Institutes' delivery in general
- To understand the new challenges faced by the Industry due to the COVID-19 pandemic and the opportunities for the Institute to support for tackling them innovatively
- To laydown the steps and roadmap to make IIT Tirupati into a sought after Academic partner for Industry collaboration for Projects, Research & continuous education
- To understand the Industry's expectations from fresh graduates & the areas of improvement in the curriculum to prepare the students suitably
- To enhance internship & employment opportunities for the students

Manufacturing Group at IIT Tirupati

Advanced manufacturing is one the thrust areas of IIT Tirupati. Manufacturing group comes under the Department of Mechanical Engineering of the institute. The manufacturing group is mainly focusing on Smart Manufacturing, Additive Manufacturing, Computational Metrology, Ultra Precision Machining, Optimization Techniques, Metal Casting, Metal Forming, Materials Processing and Mechanical Behavior of Materials, Welding Science and Technology, Tribology, Advanced Materials such as Fiber Reinforced Composite Materials, Metal Matrix Composites, Self-healing and Self-cleaning Materials, Surface Alloy Coatings, High Temperature Materials, High Entropy Alloys etc.

Major research facilities available with

CNC wire cut EDM	Tandem gas metal arc robotic welding setup	3D Scanner
Co-ordinate measuring machine	Tandem-submerged arc welding set	Vacuum induction furnace
Surface roughness tester	Hot and cold wire gas tungsten arc welding setup	Pressure infiltration
3D printer	Metallography specimen preparation equipment	Twin rolling system
Gravity Die Casting	Squeeze casting	True centrifuge casting
Nano finishing equipment	Metallurgical microscopes	Portable XRD



Stir casting

We sincerely invite the Industry stalwarts to visit and enrich the proceedings

Contact details

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