

Workshop on Advanced Metrology - 2022

(5 - 9 December, 2022)

Registration Form

Name: Dr./Mr./Ms./Mrs.

Designation:

Office Address:

Mobile:

E-mail:

Age:

Sex: Male / Female

Highest Acad. Qualification:

Professional Experience in years, Industrial:

Teaching/Technician:

Research:

Accommodation: Required / Not required

Date:

Place:

Signature of the Applicant

Certificate

Prof/Dr./Mr./Ms./Mrs/_____

is an employee/student of our organization and he/she is hereby nominated. The applicant is permitted to attend the workshop at IIT Tirupati from 5/12/2022 to 9/12/2022, if selected.

Signature of the Competent Authority with Seal

About IIT Tirupati

The Indian Institute of Technology Tirupati (IIT Tirupati), established in 2015, is an autonomous Institute under Ministry of Education, Government of India. IIT Tirupati started functioning with the support of its mentoring institute, IIT Madras, from the academic year of 2015-16. The academic programs consist of B.Tech, M.Tech, M.S. and PhD in the fields of Civil and Environmental Engineering, Mechanical Engineering, Computer Science and Engineering, Electrical Engineering and Chemical Engineering. Also, have M.Sc and research programs in the field of Chemistry, Mathematics and Statistics and Humanities and Social Sciences. Apart from this IIT Tirupati has been ranked 56 in NIRF 2022 in the first attempt itself. It has about 106 faculties, 97 staff and 1415 students across various departments and centers.

About Department

The Department of Mechanical Engineering, established in 2015, offers B. Tech, M. Tech, and Ph.D programs. The faculty members of the Department are engaged in research in the areas of Solid Mechanics and Design, Thermal and Fluid Engineering, Manufacturing Engineering and Materials Research, and Robotics. The Department is highly active in organizing programs to train the faculty, technicians, students, and people from Industry. The Department is actively engaged in collaborations with industries, research organizations, and other universities on the research problems of contemporary relevance. The world class laboratory facilities available in the Department in Design, Thermal and Manufacturing Engineering fields along with the highly qualified faculty enables Industry– Academia collaboration.

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Coordinator

Dr. N. Venkaiah

Department of Mechanical Engineering

Indian Institute of Technology Tirupati

Tirupati, Andhra Pradesh – 517619

India

भारतीय प्रौद्योगिकी संस्थान तिरुपति



Introduction

Engineering metrology is the science of measurement. Dimensional metrology, surface metrology and form metrology are the branches of metrology which deal with the measurement of dimensions of a component (lengths, angles, etc.), geometric dimensioning and tolerancing (GD & T), surface conditions (roughness and waviness), forms (flatness, roundness, cylindricity etc.). Dimensional and form measurements at the required level of accuracy are the essential link between the designer's intent and a delivered product. The part features must be produced and measured accurately for its satisfactory performance. Furthermore, knowledge about the quality of the produced surface is crucial for selecting optimal machining conditions and functioning of the parts produced.

Objectives

This workshop is for presenting and discussing fundamentals, novel ideas, innovation trends, and experiences in the field of measurement. To provide the required accuracy at minimum cost with a reduction in the cost of rejects and rework, metrology would have a further objective in a modern engineering plant with different shops like Tool Room, Machine Shop, Press Shop, Plastic Shop, Pressure Die Casting Shop, Electroplating and Painting Shop, Assembly Shop, and also Research, Development and Engineering Department. This workshop gives an insight into reverse engineering concepts as well.

Important topics for discussion

Overview of Metrology; Dimensional Metrology; GD&T, Form Measurement; Surface Metrology; Interconnection between Manufacturing and Metrology; Reverse Engineering; Practical sessions on each topic

Speakers

Distinguished resource persons from IITs/Research labs/Industry

Eligibility

The participant must be either a student/technical staff/faculty from any recognized educational Institution or scientist/Industry personnel.

Boarding & Lodging

In-campus accommodation for 5 days will be provided to the selected participants on sharing basis. Food is part of the registration fee.

Registration Fee (incl. GST)

Category	Registration fee	Early bird*
Students	3500	3000
Academicians	6500	6000
Industry participants	12500	12000

*Early bird registration deadline: **3-11-2022 27-10-2022**

Bank Details

Account Name: Indian Institute of Technology Tirupati – Projects

Account Number: 921010000757268

Bank Name: Axis Bank Ltd., KT Road

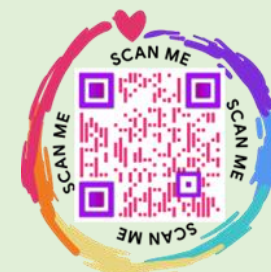
IFSC Code: UTIB0001018

Important dates

Last Date of Registration	30 th Nov. 2022 21 st Oct. 2022
Intimation of Selection (email)	1 st Dec. 2022 25 th Oct. 2022
Registration fee payment receipt submission	2 nd Dec. 2022 31 st Oct. 2022
Participation Confirmation	2 nd Dec. 2022 2 nd Nov. 2022



Scan the QR code given below for location



Contact Us:

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