

Resource Persons

Experts from industry will handle the workshop.

Target Group

Faculty from government and aided/ self financing engineering/ polytechnic colleges are eligible to apply. The maximum number of participants is limited to 25. PhD students can also participate.

No Registration Fee

How to apply

Interested faculties and students can fill the online google form provided on or before February 22.

Google Form Link and QR Code:

<https://forms.gle/S43mdHQLpgL8W2FE8>



Coordinator

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Sponsored by
**Science and Engineering
Research Board (SERB)
Department of Science and
Technology, Govt. of India**

**Workshop on
Sensors and Transducers
for Testing Structural
Elements**

February 29- March 1, 2024

Organised by



**Department of Civil Engineering,
College of Engineering Trivandrum**

Funded by,


विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY



About the College

College of Engineering, Trivandrum was established in 1939 as the first Engineering College in the then Travancore State. Ever since the inception, the College has maintained its eminence as a leading Engineering College in India. The College ranks among the top in the country in the quality of its graduates and the number of top jobs held by its graduates.

About the Department

The Department of Civil Engineering was established in 1939. The department offers UG programme with an intake of 120 in Civil Engineering leading to the B.Tech degree and six PG programmes, leading to the M.Tech degree of APJ Abdul Kalam Technological University. Various streams of PG programme include Structural Engineering, Geotechnical Engineering,

Hydraulics Engineering, Geo Informatics, Environmental Engineering and Traffic and Transportation Engineering with a total intake of 108. There are 60 scholars pursuing research leading to Ph. D in Civil Engineering.

About the Workshop

Understanding the know-how of the sensors and transducers used for testing structural elements is important for civil engineering academia. The training programme will cover the theoretical aspects and hands-on training on the following basic instruments while testing structural elements. The following topics shall be covered.

1. Sensor Fundamentals
2. Physical principles of sensing
3. Knowledge of basic fundamentals of mechanical terms like position, strain, stress etc.

4. Sensors in different application areas: Position, Displacement, and Level; Velocity and Acceleration; Force, Strain, Pressure Sensors, and Temperature Sensors
5. Data Acquisition Fundamentals
6. Signal Processing Techniques

Hands-on Training

1. Static Measurement: Load cell, Strain gauges, and LVDT
2. Dynamic Measurement: Accelerometers, Impact Hammers.

Important Dates

Application opens: 05/02/2024

Last date of application: 22/02/2024

Shortlisting of candidates: 25/02/2024

Workshop Dates: 29/02/2024 & 01/03/2024

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Department of Science and Technology, Govt. of India**

Two-day Workshop on,

Sensors and Transducers for testing Structural Elements
(29th February 2024 and 1st March 2024)

Organised by



**Department of Civil Engineering,
College of Engineering Trivandrum**

Registration Form

1. Name :
2. Designation :
3. Department :
4. Institute :
5. Address for correspondence :
6. Mobile :
7. E-Mail :
8. Educational qualifications :

Date:

Signature:

SPONSORSHIP CERTIFICATE

Certified that Mr./ Dr./ Ms..... is an employee of our institute and is hereby sponsored for the Two-day Workshop on “Sensors and Transducers for testing Structural Elements” to be held at College of Engineering Trivandrum during 29th February & 1st March 2024. He/she will be permitted to attend the programme, if selected.

Place:

Date:

Signature & Designation of
the Sponsoring Authority

(Office Seal)