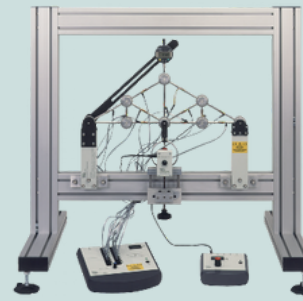


## CHARUSAT:

The Charotar University of Science and Technology (CHARUSAT) Campus is spread over 120 acres of lush-green land with modern teaching and learning facilities. CHARUSAT has been established by promulgation of Gujarat Private University Act, 2009. University is accredited with "A+" Grade by NAAC, Bangalore and awarded with "Centre of Excellence" from Government of Gujarat. The University is identified with cutting edge research, robust academic programmes, quality teaching learning process and over-all personality development of its students. CHARUSAT campus provides refreshing environment and stimulates intellectual growth and creativity.

## M. S. Department of Civil Engineering:

Civil Engineering is a broad field of engineering that deals with the planning, construction, and maintenance of built environment and other infrastructure facilities closely related to earth, water and environment. The M. S. Patel Department of Civil Engineering at CSPIT, CHARUSAT was established in 2008 to impart quality education & conduct research in Civil Engineering to cater the rising needs and demands of the society. The Department has constantly been equipping itself with technological advancements of national priority and flexibly adapting to changing scenario in the fields of Civil Engineering. The Department offers B.Tech in Civil Engineering, M.Tech in Structural Engineering and PhD programmes in various disciplines of Civil Engineering.



## Why this course?

The most crucial aspect in the field of Civil Engineering is to have practical knowledge of structural elements. The small displacements and rotations which are not easily seen in real structures can be observed while performing the experiments using these models. The Certificate course will enhance the visualization and grasping capacity of the students which creates a long-lasting impression in students' minds and is always beneficial for them in future. The course covers the structural analysis concepts, principles, and hands on sessions on different models of structural elements. The course provides insights into different structural aspects and behavior of structural elements under primary and secondary loadings.

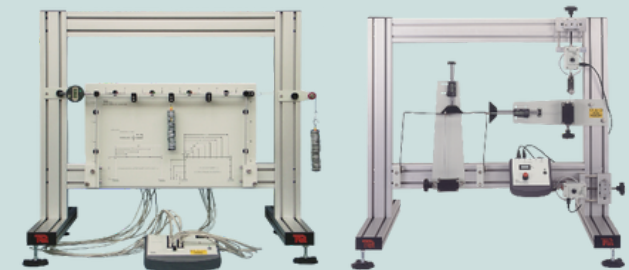
## Objectives of the Course:

- To learn behaviour of different types of struts for different end conditions.
- To investigate deflection and stability of beam and frames.
- To observe the behavior of pin jointed frame work under primary and secondary load.
- To examine a simple suspension bridge under various loads.
- To study the important features of arches.

**M. S. Patel Department  
of Civil Engineering  
announces**

**5 days Hands on  
session  
Certificate Course**

**on  
"Training on  
Sophisticated Structural  
Models"**



**Course Duration:**

**19th June 2023 to 23 June 2023**

**Course Coordinators:**

**Ms. Pinal Patel  
Mr. Vipul Vyas**

## Course Outcomes:

By the end of the course, participants will be able to

- Calculate the axial forces and deflections in pin jointed frame work.
- Find the support reactions, member forces and deflections for different types of beams, portal frame, arches and suspension bridge under the primary and secondary loads.



## Outline of Contents:

- Brief of Engineering Mechanics
- Basics of structural analysis
- Experiments on different structural models of Beam, Portal Frame, Truss, Arch and Suspension Bridge

## Teaching-Learning Methodology:

- Hands-on practice will be provided to the students to make them aware about the actual behavior of structural elements under various loads.

## For whom?

Any person pursuing/ completed B.E./ B.Tech./ Diploma in Civil Engineering

## Course Registration Fees:

Course Fees (Including GST) : INR 1,770/-  
Maximum Intake : 25

## Payment



For Registration fees payment,  
please scan the QR code.

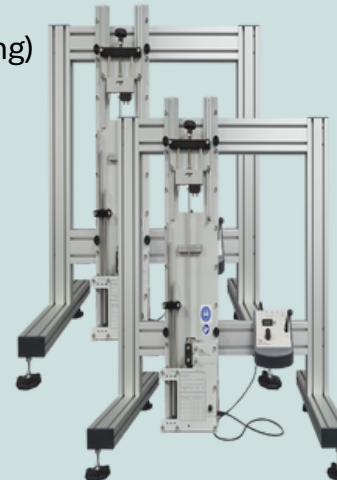
## Evaluation:

Participants will be tested and evaluated at the end of the course.

## Resource Persons

**Ms. Pinal Patel**

M.E. (Structural Engineering)  
Assistant Professor



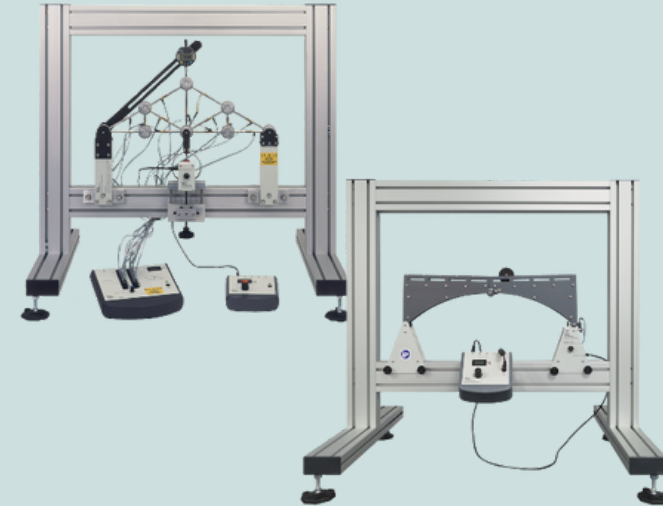
## How to apply?



To fill online application form along with details of registration fees, please scan the QR code.

**OR**

Visit: [www.cspitcivil.com](http://www.cspitcivil.com)



## Address for Correspondence:

M. S. Patel Department of Civil Engineering,  
CSPIT, CHARUSAT Campus,  
Off Nadiad- Petad Highway 139,  
Changa, Gujarat 388421

## For Further Details:

### Contact:

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Cell No - 9979975075  
[pinalpatel.cv@charusat.ac.in](mailto:pinalpatel.cv@charusat.ac.in)