

2-Days

National Level workshop on

"Bridge Design, Fabrication & Testing Workshop"

About Workshop:

Bridge Design is a vital topic of study in Civil Engineering. In the Bridge Design Workshop, participants will design and fabricate their own bridge. The bridge model made by participants can take up to 1000 times the self-weight. The workshop includes instruction on the key structural components of Structural engineering and bridge construction – beams, arches, trusses, suspensions, and test for maximum load.

Topic Covered

- Bridge Engineering
 - An Introduction
 - Design concepts involved in different types of Bridges
- Modeling and Analysis of sample Bridges using Industry grade software
- Structural responses due to different loads
- Case studies for better understanding of Bridge Design concepts

Workshop Highlights

- Design, Fabricate and Test your own Bridge
- Exposure to new technologies involved in Bridge Engineering
- Understanding the concepts of different Bridges with case studies
- Competition to measure efficiency of the fabricated Bridge

Workshop Certification

- Certificate of Participation from RoboFeast In Association With EDC IIT-Roorkee.
- Certificate of merit from RoboFeast in Association with EDC IIT-Roorkee.
- Certificate of Coordination from RoboFeast In Association With EDC IIT-Roorkee.

Program Agenda for Bridge Design Workshop

1st Day: Session 1: Lecture Session: 2 hrs.

Bridge Engineering:

- An Introduction
- Design concepts involved in different types of Bridges

Session 2: Software Session: 2 hrs.

- Introduction to the Bridge Design Software
- 2D modelling of a truss Bridge
- Analysis of Loads

Session 3: Software Session: 2 hrs.

- Introduction to the software, SAP2000
- Setting up different load cases
- 3D Modelling of a Truss Bridge
- Designing of a Truss bridge considering the Problem Statement

2nd Day: Session 4: Design and Fabrication Session: 4

- Finalizing the truss design
- Fabrication of the Truss Bridge using Balsa Wood

Session 5: Load Testing Session: 4 hrs.

Benefits of association with us

- Name and Logo including website link will be published on our official website mentioning that “You are our Official Zonal Partner”.
- Authorized Team will visit your College to organize the entire event.
- Chance to get associated with nationally acclaimed engineering Institute of India.
- An email will be sent to more than 1 lakh users of our web partners about your college publicity.
- Posters and Flexes will be sent to you for effective regional publicity.
- All India publicity through SMS will also be done.

Benefits to the Participants

- Certificate of participation would be awarded to each participant.
- Winners will get the merit Certificate.
- Free Software Toolkit CD (Containing E-Books, Software, Video's, Tutorials, projects)
- Full Version Software CD To each Student

Prerequisite for Workshop

- Passion to learn new creative things.
- Basic Knowledge of Structure Analysis & Design
- Having basic knowledge of Computers.

Who Could Attend?

- Students willing to take up projects in Structural engineering like Bridge Design
- Structural Engineering aspirant

Requirements for Zonal Center

- Seminar hall/classroom having the enough capacity to conduct hands-on-session for all participants.
- Good Quality public address system ideally two cordless mikes will be required.
- Projector/ Screen along with black/white board for teaching and presentation purposes.
- One small stereo jack cord connect to laptop for its sound system.
- This Zonal center can only be arranged for a minimum of 60 students

Responsibility of an Organizer

- Hospitality (2 days) for a team of 1-2 members.
- Pick and Drop facility from the nearest railway station/bus stop/ airport.

Workshop Duration

- 2-Days (7-8 hours each day)

Registration Fee

- **RS.1200/per participant only.**
- The fee includes all tax, training, certification, and Event registration.

Please be free to contact us for any kind of discussions related to RoboFeast-2017

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