

Vaanahaa Education and Innovation Labs Pvt. Ltd

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Workshop on Bridge Design And Fabrication

| Session 1- Concept Session: | |
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| 0 0 0 0 | Detail introduction on Bridge Engineering Significance and Importance in modern days Understanding of different load system Analysis of lateral forces considering Indian Standard Codes Detail discussion on the methods to reduce deflection Brief Introduction to Base Isolation concept Introduction to Damping System Discussion on different foundation system and its application Detail case studies |
| Launch Break | |
| Session 2- Practical Session: | |
| 0 | Introduction to major Industry grade Structural Analysis software SAP 2000 Analysis of Steel Beam using IS CODE Analysis of Concrete Beam using IS CODE Steel and Concrete frame analysis Analysis of Truss P Delta analysis Analysis of Truss Bridge Considering Loading |
| Day-2 Session 3- Practical Session: □ Fabrication of the Truss Bridge using Balsa Wood | |
| □ Fabrication of the Truss Bridge using Balsa Wood Launch Break | |

Session 4- Practical Session:

☐ Load testing to check the performance of Design

Please note: 10% of the students will be awarded with Merit/Distinction certification based out of their overall performance.