

## Course Content

Concept Session: (4 Hrs)

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- 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 it's application
- Detail case studies

Practical Session: (12 Hrs)

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Software Session:

- Introduction to major Industry grade Structural Analysis software
- 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

Fabrication and Testing:

- Model Fabrication and Testing to check the performance of Design

For more information, visit :

<https://vaanahaa.com/product/bridge-design-workshop-techniche19-iit-guwahati/>