

## STRUCTURE LAB

**Paper Code: ETCE-254**

**Paper: Structure Lab**

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**Note:** Based on theory 8-10 experiments are to be performed. The list is provided below:

### **LIST OF EXPERIMENTS**

1. To find the value of flexible stiffness  $EI$  for a given beam and comparison with theoretical value
2. To verify the moment area theorem
3. To study the behavior of different types of columns
4. To verify the Clark's Maxwell reciprocal theorem
5. To determine the horizontal thrust in a three hinged arch and verify it
6. To determine the elastic displacement of curved members and verify it
7. To obtain the influence line diagram for horizontal thrust in a three hinged arch and verify it
8. To find the value of torsional constant and compare it with theoretical value

**NOTE:- At least 8 Experiments out of the list must be done in the semester.**