



NRI – INSTITUTE OF RESEARCH & TECHNOLOGY

(Run By Taramathi Education Society)

(Approved by AICTE New Delhi, Govt. of M.P. And Affiliated to R.G.P.V. Bhopal)

1, Sajjan Singh Nagar, Opp. Patel Nagar, Raisen Road Bhopal MP- 462022

Tel No. 0755-2684058-60 Ext.-507 Fax: 0755-2684059

website: www.nrigroupindia.com

NIRT

Civil Engineering, IV-Semester

Subject Name-Construction Technology

Subject Code- CE402

List of Experiments:

1. Tests on Bricks
2. Tests on Aggregates (fine and Coarse)
- 3 Tests on Cements and concrete
4. Tests on tiles



Civil Engineering, IV-Semester

Subject Name- Structural Analysis-I

Subject Code- CE403

List of Experiments:

1. To verify Maxwell- Bett's Law.
2. To determine the flexural rigidity of the beam verify it theoretically
3. To determine the deflection of a pin jointed truss and to verify the results theoretically and graphically
4. To verify strain in an externally loaded beam with the help of a strain gauge indicator and to verify theoretically
5. To study behaviour of different types of columns and find Euler's buckling load for each case
6. To study two hinged arch for the horizontal displacement of the roller end for a given system of loading and to compare the same with those obtained analytically
7. To study the behaviour of a portal frame under different end conditions. Apparatus
8. To find the value of flexural rigidity (EI) for a given beam and compare it with theoretical value
9. To determine the deflection of a pin connected truss analytically & graphically and verify the same experimentally
10. To verify the Muller Breslau theorem by using Begg's deformer set



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Civil Engineering, IV-Semester

Subject Name- TRANSPORTATION ENGINEERING –I

Subject Code- CE404

List of Experiments:

1. Collection of different types of photographs showing
 - a. Various bridge types
 - b. Rail tracks
 - c. Tunnels
2. Hydraulic design of bridges.
3. Various modern large span bridges: Pre stressed bridges and launching process.
4. Visit of Railway bridges for rehabilitation.
5. Visit of Railway Over Bridges and Under Bridges.



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Civil Engineering, IV-Semester

Subject Name- ENGINEERING GEOLOGY & REMOTE SENSING

Subject Code- CE405

List of Experiment's (Expandable)

1. Identification of simple rock forming minerals and important ores.
2. Identification of rocks
3. Simple map Exercises.
4. Field Visit/Geological Excursion



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Civil Engineering, IV-Semester

Subject Name- SOFTWARE LAB (AutoCAD)

Subject Code- CE406

List of Experiments:

1. Introduction to CAD, Introduction to AutoCAD, Software and hardware requirements, various input and output devices. Getting started with AutoCAD, Setting drawing limits, Units etc.
2. Learning and practice of Draw commands, Modify commands, utility and other commands.
3. Drawing basic Geometric Shapes, Basic Plotting and Editing Tools, Architectural Views & Drafting Views.
4. 3D modelling with AutoCAD
5. Dimensioning, Annotating in AutoCAD with Text & Hatching, Blocks, drafting symbols and Attributes, Layers, Templates & Design Center, Advanced plotting (Layouts, Viewports)
6. Drawing plan, section and elevation of 1 BHK house.