



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

SEMESTER- V

SUBJECT NAME – FLUID MECHANICS -I

SUBJECT CODE – CE501

LIST OF EXPERIMENTS:

1. To determine the local point pressure with the help of pitot tube.
2. To find out the terminal velocity of a spherical body in water.
3. Calibration of Venturimeter
4. Determination of C_c , C_v , C_d of Orifices
5. Calibration of Orifice Meter
6. Calibration of Nozzle meter and Mouth Piece
7. Reynolds experiment for demonstration of stream lines & turbulent flow
8. Determination of metacentric height
9. Determination of Friction Factor of a pipe
10. To study the characteristics of a centrifugal pump.
11. Verification of Impulse momentum principle



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SEMESTER- V

SUBJECT NAME – TRANSPORTATION ENGINEERING - II

SUBJECT CODE – CE502

LIST OF EXPERIMENTS:

1. Aggregate Crushing Value Test
2. Determination of aggregate impact value
3. Determination of Los Angeles Abrasion value
4. Determination of California Bearing Ratio values
5. Determination of penetration value of Bitumen
6. Determination of Viscosity of Bituminous Material
7. Determination of softening point of bituminous material
8. Determination of ductility of the bitumen
9. Determination of flash point and fire point of bituminous material
10. Determination of Bitumen content by centrifuge extractor
11. Determination of stripping value of road aggregate
12. Determination of Marshall stability value for Bituminous mix
13. Determination of shape tests on aggregate



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SEMESTER- V

SUBJECT NAME – QUANTITY SURVEYING & COSTING

SUBJECT CODE – CE505

LIST OF EXPERIMENTS:

1. Preparation of detailed estimate.
2. Detailed estimate for services of plumbing and water supply or Electrification work.
3. Detailed estimate for earth work for the road construction or arched culvert.
4. Rate analysis for at least 8 items of construction.
5. Preparation of DPR of Civil Engineering Project.



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SEMESTER- V

SUBJECT NAME – MATERIAL TESTING LAB

SUBJECT CODE – CE506

LIST OF EXPERIMENTS:

1. To determine the normal consistency of cement.
2. To determine the initial and final setting time of cement.
3. To determine compressive strength of cement.
4. To determine the soundness of cement.
5. To determine the fineness modulus of fine aggregate & course aggregate.
6. Mix design of concrete by IS code Method.
7. Slump test for determining workability of concrete.
8. Compressing strength of concrete cube.
9. To determine the flexure strength of concrete.