Diploma, Anna University-UG, PG., HSC & SSLC

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31035- MATERIAL TESTING LAB- I

DETAILED SYLLABUS

Part A

- 1. Tension test on mild steel / deformed steel bars.
- 2. Deflection test on Simply Supported Beams of
 - a. wood and
 - b. steel to find Young's modulus.
- 3. Torsion test on mild steel bar to determine the Modulus of Rigidity
- 4. Determination of the fineness of cement by Blains Permeability Apparatus or by sieve analysis.
- 5. Initial and final setting time of cement with Vicat's Apparatus.
- 6. Determination of normal consistency of cement by Vicat's Apparatus.

Part B

- 1. Finding Brinnel's / Rockwell's hardness numbers of the following materials.
 - i. Mild steel
 - ii. Brass
 - iii. Aluminium.
- 2. Compression Test on Wooden cube.
- 3. Double Shear test on M.S. bar.
- 4. Impact Test on mild steel by performing Izod /Charpy tests
- 5. Compression test on Bricks /Solid Blocks.
- 6. Water absorption test on Bricks /pressed tiles.
- 7. Flexure test on Tiles.

Part C: (Not for Examination)

- 1. Demonstration of Strain gauges and Strain indicators.
- 2. Demonstration of Soundness test on cement by Autoclave method.

REVISION & TEST