



AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



VINAYAKA MISSION'S
RESEARCH FOUNDATION
(Deemed to be University under section 3 of the UGC Act 1956)



DEPARTMENT OF HUMANITIES AND SCIENCES

PHYSICS DIVISION

PHYSICAL SCIENCES LAB: PART- A REAL AND VIRTUAL LAB IN PHYSICS LAB

LIST OF EXPERIMENTS

1. Young's Modulus of a bar – Non uniform bending.
2. Torsional Pendulum – Determination of Rigidity modulus of the wire.
3. Determination of Viscosity of a liquid – Poiseuille's Method.
4. Ultrasonic Interferometer – Determination of velocity of sound and compressibility of the liquid.
5. Diode Laser – Determination of Particle size.
6. Spectrometer – Determination of Wavelength of the mercury Spectrum.
7. Air-wedge – Determination of thickness of the material.
8. Determination of thermal conductivity of bad conductor – Lee's Disc Apparatus.
9. Band Gap Apparatus – Determination of Band gap of a thermistor.

LIST OF ADDITIONAL EXPERIMENT BEYOND THE SYLLABUS

1. Specific resistance of a wire - Potentiometer

HOD – H & S



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DEPARTMENT OF HUMANITIES AND SCIENCES

CHEMISTRY DIVISION

PHYSICAL SCIENCES LAB: PART – B ENGINEERING CHEMISTRY LAB

LIST OF EXPERIMENTS

1. Determination of Hardness by EDTA method.
2. Estimation of Hydrochloric acid by conductometric method.
3. Acid base titration by pH method.
4. Estimation of ferrous ion by Potentiometric method.
5. Determination of Dissolved oxygen by Winkler's method.
6. Estimation of Sodium by Flame photometer.
7. Estimation of copper from Copper Ore Solution
8. Estimation of iron by spectrophotometer

LIST OF ADDITIONAL EXPERIMENTS BEYOND THE SYLLABUS

1. Separation of mixture of components using thin layer chromatography.
2. Corrosion experiment by weight loss methods.

HOD – H & S