



SCHOOL OF ARTS AND SCIENCE

VINAYAKA MISSION'S RESEARCH FOUNDATION

# SCHOOL OF ARTS AND SCIENCE

Av-Campus, OMR, Paiyanoor, Chennai 600 104.

DEPARTMENT OF PHYSICS



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## LIST OF EXPERIMENTS

1. Young's Modulus – Non uniform Bending – pin and microscope method
2. Young's Modulus – uniform bending – pin and microscope method
3. Torsion pendulum – dynamic method – Rigidity Modulus
4. Surface tension and interfacial surface tension – Drop Weight method
5. Compound pendulum
6. Coefficient of Viscosity of a liquid - graduated burette - radius by Mercury pellet method.
7. Cantilever - dynamic method.
8. Study of laws of parallel and perpendicular axes for estimation of moment of inertia
9. Variation of period of oscillations of a spring (or rubber band) with mass and spring constant
10. Ultrasonic Interferometer-Adiabatic compressibility, velocity and frequency.
11. Sonometer – frequency of a fork
12. Sonometer – R.D of a solid and liquid
13. Melde's apparatus - frequency - transverse and longitudinal modes.
14. Melde's apparatus - RD of a solid and liquid.
15. Potentiometer – calibration of low range Voltmeter
16. Potentiometer – Internal resistance of a cell
17. Current and Voltage sensitivities of a galvanometer
18. Copper Voltmeter – BH determination
19. Potentiometer - ammeter calibration.
20. M and BH - Deflection Magnetometer - TAN A and TAN B position.
21. Field along the axis of a coil - deflection magnetometer.
22. Deflection magnetometer - m and BH - Tan C position.
23. Zener diode – Voltage regulator
24. Low range power pack using two diode
25. Half and Full adder.
26. Half and Full subtractor.
27. Verification of DeMorgan's theorems.
28. OPAMP - adder and subtractor - IC 741
29. Bridge rectifier with four diodes.
30. FET - Characteristics
31. UJT – Characteristics