

UNIVERSITY OF MADRAS
B.Sc. DEGREE COURSE IN PHYSICS
SYLLABUS WITH EFFECT FROM 2020-2021

BPS-DSC06

CORE-VI: CORE Practical - II
(At the end of Fourth semester - Any Fifteen Experiments)

Credits:4

1. Young's Modulus-Cantilever-Depression-(Static method-Scale and Telescope).
2. Young's Modulus –Uniform bending – Pin &Microscope.
3. Rigidity Modulus-Static Torsion (Scale and Telescope)
4. Compound Pendulum-g and k
5. Sonometer-A.C. Frequency-Steel and Brass wires.
6. Melde's string- Frequency, Relative Density of a solid and liquid.
7. Thermal conductivity of a bad conductor-Lee's disc method.
8. Spectrometer-Grating N and λ -minimum deviation method.
9. Spectrometer- μ of a glass prism -i-d Curve
10. Airwedge-Thickness of a wire.
11. Deflection Magnetometer – Tan B position
12. m and B_H -Deflection Magnetometer-Tan C position and vibration magnetometer
13. Carey Foster Bridge - Temperature coefficient of resistance of a coil.
14. Potentiometer – Specific resistance of the given wire.
15. Potentiometer-Ammeter calibration.
16. Potentiometer- Emf of thermocouple.
17. Figure of merit of galvanometer (Mirror or Table Galvanometer).
18. Surface tension – Capillary rise method.
19. Specific heat of capacity – Joule's calorimeter.