

Department of Nanoscience & Advanced Materials,  
Saurashtra University, Rajkot.

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B.Sc./M.Sc. Applied Physics (Integrated) Semester – IV  
(Academic Year 2019 – 20)

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## **LIST OF PRACTICALS**

- 1) To study characteristics of a G.M. detector.
- 2) To determine the range of  $\beta$  – particle and their maximum energy by half thickness method using G.M. detector.
- 3) To study & verify different Logic Gates.
- 4) To study & verify Universal Gates.
- 5) To verify De Morgan's Theorem of Boolean Algebra.
- 6) To verify Superposition Theorem for electrical network.
- 7) To determine Young's Modulus by Cantilever method.
- 8) To study the characteristics of Light Dependent Resistor (LDR).
- 9) To study Newton's Rings.
- 10) To determine wavelength of spectral lines using plane diffraction grating.