

**PARVATIBAI CHOWGULE COLLEGE OF ARTS AND SCIENCE
(AUTONOMOUS)
DEPARTMENT OF PHYSICS
COURSE STRUCTURE
THREE YEARS B.Sc. DEGREE COURSE IN PHYSICS**

SEMESTER	CORE		ELECTIVE					SEC
I	PHY-I.C-1 Introduction to Mathematical Physics	PHY-I.C-2 Mechanics-I	-----	-----	-----	-----	-----	
II	PHY-II.C-3 Heat and Thermodynamics	PHY-II.C-4 Electricity and Magnetism	-----	-----	-----	-----	-----	
III	PHY-III.C-5 Electromagnetic Theory-I	-----	PHY-E1 *Optics	PHY-E2 Modern Physics	PHY-E3 Oscillations, Waves and Sound	PHY-E17 Introduction to Astronomy and Astrophysics	-----	PHY-SEC.1 Basics of Visualization and Scientific word processing
IV	PHY-IV.C-6 Quantum Mechanics	-----	PHY-E5 *Electronics-I	PHY-E18 Introduction to Error Analysis	PHY-E4 Properties of Matter and Acoustics	PHY-E7 Computational Physics	-----	PHY-SEC.2 Instrumentation
V	PHY-V.C-7 Electromagnetic Theory-II	-----	PHY-E9 *Solid State Physics	PHY-E10 Thermodynamics and Statistical Mechanics	PHY-E11 Electronics-II	PHY-E12 Mathematical Physics	PHY-E6 Solid State Devices	
VI	PHY-VI.C-8 Atomic and Molecular Physics	-----	PHY-E13 *Mechanics II	PHY-E14 Nuclear and Elementary Particle Physics	PHY-E15 Introduction to Special Theory of Relativity	PHY-E16 Introduction to Material Science		

* BoS Physics recommends these elective courses to be taken by students as a prerequisite to the M.Sc. (Physics) Program.

Course to be offered as Generic Elective Course

Sr. No.	Course Code	Course Title
1	PHY-GEC-1	Elementary Physics
2	PHY-GEC-2	Physics for Life Sciences
3	PHY-GEC-3	Introduction to Astronomy