Lecture Plan

Name of the college: Government College of Arts, Science and Commerce, Sanquelim – Goa.

Name of Faculty: Ms. Anushka Panjikar	**Subject:** Physics	
Paper code: PHY-111 : Everyday Physics	**Program:** FY BSc	**Division: -**
Academic year: 2025- 2026	**Semester: I**	**Total Lectures: 15L**

Course Objectives: This course aims to enhance the perception of physical concepts and develop deeper understanding of the world we interact with every day.

Expected Course Outcome: Student will be able to

1. Recall fundamental concepts in Physics and connect them in everyday life

2. Describe the fundamental concept to understand the physical phenomena happening around us.

3. Apply fundamental concepts in Physics to analyse these phenomena.

4. Correlate the concepts of Physics in other branches of science.

Student Learning Outcome: The course will enable students to understand fundamental principles of mechanics, properties of matter, heat, light, sound, electrostatics, magnetism, and modern physics, while applying these concepts to solve real-world problems and develop a strong foundation for advanced studies in physics.

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
JUNE	20-06-25	21-06-25	0				
JUNE	23/06/25	28/06/25	1L	1. Introduction	Group discussion	Powerpoint presentation	P. G. Hewitt, Conceptual physics, 12th ed., Pearson, 2015.

JUNE, JULY	30/06/25	05/07/25	1L	1. Newtons first law and second law	Group discussion	Powerpoint presentation	P. G. Hewitt, Conceptual physics, 12th ed., Pearson, 2015.
JULY	07/07/25	12/07/25	1L	1. Mass and weight Newton's third law	MCQ Quiz	Powerpoint presentation	P. G. Hewitt, Conceptual physics, 12th ed., Pearson, 2015.
JULY	14/07/25	19/07/25	1L	1. EQUILIBRIUM RULE, FRICTION	MCQ Quiz	Powerpoint presentation	P. G. Hewitt, Conceptual physics, 12th ed., Pearson, 2015.
JULY	21/07/25	26/07/25	1L		Group discussion	Powerpoint presentation	P. G. Hewitt, Conceptual physics,

				1. speed,velocity, Acceleration, how fast			12th ed., Pearson, 2015.
JULY, AUGUST	28/07/25	02/08/25	1L	1. Momentum, Impulse	Group discussion	Powerpoint presentation	P. G. Hewitt, Conceptual physics, 12th ed., Pearson, 2015.
AUGUST	04/08/25	09/08/25	1L	1. Bouncing	MCQ Quiz	Powerpoint presentation	P. G. Hewitt, Conceptual physics, 12th ed., Pearson, 2015.
AUGUST	11/08/25	16/08/25	1L	1. conservation of momentum, collisions	MCQ Quiz	Powerpoint presentation	P. G. Hewitt, Conceptual physics, 12th ed., Pearson, 2015.

AUGUST	18/08/25	25/08/25	1L	1. work, Power	MCQ Quiz	Powerpoint presentation	P. G. Hewitt, Conceptual physics, 12th ed., Pearson, 2015.
SEPTEMBER	02/09/25	06/09/25	1L	Potential, Kinetic energy, conservation of energy.	MCQ Quiz	Powerpoint presentation	P. G. Hewitt, Conceptual physics, 12th ed., Pearson, 2015.
SEPTEMBER	08/09/25	13/09/25	1L	Circular Motion, Rotational inertia	MCQ Quiz	Powerpoint presentation	P. G. Hewitt, Conceptual physics, 12th ed., Pearson, 2015.

SEPTEMBER	15/09/25	20/09/25	1L	Torque, Center of mass and center of gravity, Centripetal force, centrifugal force	MCQ Quiz	Powerpoint presentation	P. G. Hewitt, Conceptual physics, 12th ed., Pearson, 2015.
SEPTEMBER	22/09/25	27/09/25	1L	Angular Momentum, conservation of angular momentum.	MCQ Quiz	Powerpoint presentation	P. G. Hewitt, Conceptual physics, 12th ed., Pearson, 2015.
SEPTEMBER, OCTOBER	29/09/25	04/10/25	1L	The universal law of gravity, the universal gravitational constant	MCQ Quiz	Powerpoint presentation	P. G. Hewitt, Conceptual physics, 12th ed., Pearson, 2015.

OCTOBER	06/10/25	11/10/25	1L	Inverse square law, weight and weightlessness	MCQ Quiz	Powerpoint presentation	P. G. Hewitt, Conceptual physics, 12th ed., Pearson, 2015.
OCTOBER	13/10/25	18/10/25	1L	REVISION			

Assessment Rubrics

Component	Max Marks
ISA 1 Assignment	10
ISA 2 Written Test	10
ISA 3 Written Test	10
Semester End Exam	80