

FIRSTYEAR

Month/ No. of working days/ no. of periods	Topics to be covered	Periods allotted for each topic
JUNE (24)	CHAPTER- I PHYSICAL WORLD 1.1 What is Physics? 1.2 Scope and excitement of physics 1.3 Physics, technology and society 1.4 Fundamental force sinnature 1.5 Nature of physical laws	05
	CHAPTER-II UNITS AND MEASUREMENTS 2.1 Introduction 2.2 The International system of units 2.3 Measurement of length 2.4 Measurement of mass 2.5 Measurement of time 2.6 Accuracy, precision of instruments and errors in Measurement 2.7 Significant figures 2.8 Dimensions of Physical Quantities 2.9 Dimensional formulae and dimensional equations 2.10 Dimensional analysis and its applications	10
	Chapter-III MOTION IN A STRAIGHT LINE 3.1 Introduction 3.2 Position, path length and displacement 3.3 Average velocity and average speed 3.4 Instantaneous velocity and speed Acceleration 3.6 Kinematic equations for uniformly accelerated motion 3.7 Relative velocity	07
	ASSIGNMENTS -4 (Weekly-1) EAPCET - Classes 4 (Weekly1)	01
	CHAPTER-IV: MOTION IN A PLANE	

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JULY (24)	4.1 Introduction 4.2 Scalars and vectors 4.3 Multiplication of vectors by real members 4.4 Addition and subtraction of vectors graphical Method 4.5 Resolution of vectors 4.6 Vector addition Analytical method 4.7 Motion in a plane 4.8 Motion in a plane with constant acceleration 4.9 Relative velocity in two dimensions 4.10 Projectile motion 4.11 Uniform circular motion CHAPTER-V: LAWS OF MOTION 5.1 Introduction 5.2 Aristotle's fallacy 5.3 The law of inertia 5.4 Newton's first law of motion 5.5 Newton's second law of motion 5.6 Newton's third law of motion 5.7 Conservation of momentum 5.8 Equilibrium of a particle 5.9 Common forces in mechanics, friction 5.10 Circular motion 5.11 Solving problems in mechanics. UNITTEST-I (From 26-07-2023 to 28-07-2023) EAPCET-Classes4 ASSIGNMENTS-4 Practicals 1.vernier calliperse 2. Screw gauge	11 10 01
August (25)	CHAPTER-VI: WORK, ENERGY AND POWER 6.1 Introduction 6.2 Notions of work and kinetic energy: The work-energy theorem. 6.3 Work 6.4 Kinetic Energy 6.5 Work done by a variable force 6.6 The work-energy theorem for a variable force. 6.7 The concept of potential energy	12

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	6.8 The conservation of mechanical energy 6.9 The potential energy of a spring 6.10 Various forms of energy: the law of conservation of energy. 6.11 Power 6.12 Collisions UNIT TEST-II (From 24-08-2023 to 26-08-2023)	
September (22)	CHAPTER-VII SYSTEM OF PARTICLES AND ROTATIONAL MOTION 7.1 Introduction 7.2 Centre of mass. Centre of gravity 7.3 Motion of Centre of mass 7.4 Linear momentum of a system of particles 7.5 Vector product of two vectors 7.6 Angular velocity and its relation with linear velocity Practical's : 3. Physical balance; 1. Simple Pendulum QUARTERLY EXAMS 16-09-2023 to 23-09-2023 ASSIGNMENTS 4 EAPCET – Classes 4	7
October (18)	CHAPTER-VII SYSTEM OF PARTICLES AND ROTATIONAL MOTION 7.7 Torque and angular momentum 7.8 Equilibrium of a rigid body 7.9 Moment of inertia 7.10 Theorems of perpendicular and parallel axis. 7.11 Dynamics of rotational motion about a fixed axis. 7.12 Angular momentum in case of rotations about a fixed axis. 7.13 Rolling motion Chapter-VIII (OSCILLATIONS) 8.1 Introduction 8.2 Periodic and oscillatory motions 8.3 Simple Harmonic motions 8.4 Simple Harmonic motion and uniform circular motion	

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	8.5 Velocity and acceleration in simple harmonic motion 8.6 Force law for simple harmonic motion 8.7 Energy in simple harmonic motion 8.8 Some systems executing simple harmonic motion 8.9 Damped simple harmonic motion 8.10 Forced oscillations and resonance Practical's:5. Parallelogram law of forces (Concurrent forces) UNIT TEST -III (From 16-10-2023 to 18-10-2023) EAPCET – Classes 4 Assignments 4 DUSSEHRA HOLIDAYS 19-10-2023 to 25-10-2023 (7 Days) CHAPTER-IX GRAVITATION 9.1 Introduction 9.2 Kepler's laws 9.3 Universal law of gravitation 9.4 The gravitational constant 9.5 Acceleration due to gravity of the earth 9.6 Acceleration due to gravity below and above the surface of earth. 9.7 Gravitational potential energy 9.8 Escape speed 9.9 Earth satellite 9.10 Energy of an orbiting satellite 9.11 Geo stationary and polar satellites 9.12 Weightlessness CHAPTER-X MECHANICAL PROPERTIES OF SOLIDS 10.1 Introduction 10.2 Elastic behavior of solids 10.3 Stress and strain 10.4 Hook's law 10.5 Stress – strain curve 10.6 Elastic moduli 10.7 Applications of elastic behavior of materials. Practical's: 6. Force constant of a spring. 7. Surface Tension.	7
	NOVEMBER (25)	11
		12

UNIT TEST - IV
From 23-11-2023 to 25-11-2023

EAPCET Classes4
Assignments 4

December (24)	CHAPTER-XI MECHANICAL PROPERTIES OF FLUIDS 11.1 Introduction 11.2 Pressure 11.3 Stream line flow 11.4 Bernoulli's principle 11.5 Viscosity 11.6 Reynolds number 11.7 Surface tension	08
	CHAPTER-XII THERMAL PROPERTIES OF MATTER 12.1 Introduction 12.2 Temperature and Heat 12.3 Measurement of temperature 12.4 Ideal – gas equation and absolute temperature 12.5 Thermal expansion 12.6 Specific Heat capacity 12.7 Calorimetry 12.8 Change of state 12.9 Heat transfer 12.10 Newton's law of cooling.	10
	CHAPTER -XIII THERMO DYNAMICS 13.1 Introduction 13.2 Thermal equilibrium 13.3 Zeroth law of thermo dynamics 13.4 Heat, internal energy and work 13.5 First law of thermo dynamics 13.6 Specific heat capacity 13.7 Thermo dynamic state variables and equation of state	07
	Half yearly Examinations from 18-12-2023 to 23-12-2023 ASSIGNMENTS 4 EAPCET Classes 4 Practical's 8. Apparent expansion of liquid 9.Boyle's Law	01

January (20)	CHAPTER –XIII THERMO DYNAMICS 13.8 Thermo dynamic processes 13.9 Heat engines 13.10 Refrigerators and heat pumps 13.11 Second law of thermodynamics 13.12 Reversible and irreversible processes 13.13 Carnot engine, Carnot's theorem	06
	CHAPTER –XIV KINETIC THEORY 14.1 Introduction 14.2 Molecular nature of matter 14.3 Behavior of gases 14.4 Kinetic theory of an ideal gas 14.5 Laws of equipartition of energy 14.6 Specific heat capacity 14.7 Mean free path ASSIGNMENTS 4 EAPCET Classes 4 Practical's'10: Specific heat of a solid	07
SANKRANTHI HOLIDAYS: FROM 11.01.2024 TO 17.01.2024		
PRE-FINAL EXAMINATIONS-I: FROM 19.01.2024 TO 25.01.2024		
February (24)	Theory Revision Practical Final exams 2024 – 2nd week of Feb.	22
March (21)	I. P. Examinations : 1st week of March (Tentative) Last working day-28-03-2024	21