

Syllabus distribution of Physics (Hons & Gen) April 2021

1. Honours

Sem-II (H)		
Paper	Topic	Teacher
C-3	Electricity and Magnetism: Electric Field and Electric Potential, Dielectric Properties of Matter, Magnetic Field, Magnetic Properties of Matter, Electromagnetic Induction	SS
	Electricity and Magnetism: Electrical Circuits, Network theorems	TG
C-4	Waves : Superposition of Collinear Harmonic oscillations, Superposition of two perpendicular Harmonic Oscillations, Wave Motion, Velocity of Waves, Superposition of Two Harmonic Waves	UD
	Optics: Wave Optics, Interference, Diffraction and Holography	SM
GE-2	Thermal Physics and Statistical Mechanics: Laws of Thermodynamics, Thermodynamical Potentials	SP
	Thermal Physics and Statistical Mechanics: Kinetic Theory of Gases, Theory of Radiation, Statistical Mechanics	TG
Sem-IV (H)		
Paper	Topic	Teacher
C-8	Mathematical Physics III: Complex Analysis	SS
	Mathematical Physics III: Integrals Transforms	SM
	Mathematical Physics III: Matrices, Eigen-values and Eigenvectors	SP
C-9	Elements of Modern Physics: Unit 1, Unit 2	SS
	Elements of Modern Physics: Unit 3, Unit 4	UD
C-10	Analog Systems and Applications	TG
GE-4	Electricity and Magnetism: Vector Analysis, Electrostatics, Magnetism	UD
	Electricity and Magnetism: Electromagnetic Induction, Maxwell's equations and Electromagnetic wave propagation	SP
SEC-2	Applied Optics	SM
Sem-VI (H)		
Paper	Topic	Teacher
C-13	Electromagnetic Theory: Maxwell Equations, EM Wave Propagation in Unbounded Media, EM Wave in Bounded Media	SP
	Electromagnetic Theory: Polarization of Electromagnetic Waves, Wave guides, Optical Fibres	UD
C-14	Statistical Mechanics: Classical Statistical Mechanics, Bose-Einstein Statistics, Fermi-Dirac Statistics	SM
	Statistical Mechanics: Classical Theory of Radiation, Quantum Theory of Radiation	SS
DSE-3	Communication Electronics	TG
DSE-4	Experimental Techniques	SS+TG+UD +SP+ SM

2. General

Sem-II (G)		
Paper	Topic	Teacher
C-4: DSC-1B	Electricity and Magnetism : Vector Analysis, Electrostatics, Magnetism	SS
	Electricity and Magnetism : Electromagnetic Induction, Maxwell's equations and Electromagnetic wave propagation	SP
Sem-IV (G)		
C-10: DSC 1D	Waves and Optics: Superposition of Two Collinear Harmonic oscillations, Superposition of Two Perpendicular Harmonic Oscillations, Waves Motion- General, Fluids, Sound	MA
	Waves and Optics: Wave optics, Interference, Michelson's Interferometer, Diffraction, Polarization	SM
SEC-2	Electrical Circuits and Network Skills: Basic Electricity Principles, Understanding Electrical Circuits, Electrical Drawing and Symbols, Generators and Transformers	MA
	Electrical Circuits and Network Skills: Electric Motors, Solid-State Devices, Electrical Protection, Electrical Wiring	TG
Sem-VI (G)		
DSE-2B	Solid State Physics: Crystal Structure, Elementary Lattice Dynamics, Magnetic Properties of Matter, Dielectric Properties of Materials	UD
	Solid State Physics: Elementary band theory, Superconductivity	SP
SEC-4	Weather Forecasting	MA