

**Load distribution
Even Semester**

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Honours

2nd Semester:

1. C3- Electricity and Magnetism:
 - a. Electric field and potential, Dielectric Properties of matter, Electrical circuits, Network theorem- SP
 - b. Magnetic field, Magnetic properties of matter, EM induction – SG
2. C4- Waves and Optics:
 - a. Superposition of Harmonic oscillations, wave motions, Velocity of waves, Superposition of two harmonic waves - DKH
 - b. Wave optics, Interference, Interferometer, Diffraction and Holography – SJ
3. GE2- Thermal Physics and Stat Mech:
 - a. Laws of thermodynamics, Thermodynamic potentials, Kinetic theory of gases – JR
 - b. Theory of radiation, Statistical Mechanics – DKH

4th Semester:

1. C8- Mathematical Physics III:
 - a. Complex Analysis, Integrals Transforms – JR
 - b. Matrices, Eigen-values and Eigenvectors – SP
2. C9- Elements of Modern Physics:
 - a. Unit- 1,2,3 – DKH
 - b. Unit- 4 – JR
3. C10- Analog Systems and Applications – SG
4. SEC2- Applied Optics – DKH
5. GE4- Electricity and Magnetism:
 - a. Vector Analysis, Electromagnetic Induction – SJ
 - b. Electrostatics – SP
 - c. Magnetism, Maxwell's equations and Electromagnetic wave propagation – SG

6th Semester:

1. C13- Electromagnetic Theory:
 - a. Maxwell Equations, EM Wave Propagation in Unbounded Media, EM Wave in Bounded Media – SP
 - b. Polarization of Electromagnetic Waves, Wave guides, Optical Fibres – SG
2. C14- Statistical Mechanics:
 - a. Classical Statistical Mechanics, Classical Theory of Radiation, Quantum Theory of Radiation – JR

b. Bose-Einstein Statistics, Fermi-Dirac Statistics – DKH

3. DSE3- Communication Electronics – SJ

4. DSE4- Experimental Techniques – DKH

GENERAL

2nd Semester:

1. DSC-1B(CC-2): Electricity and Magnetism

a. Vector Analysis, – DKH

b. Electrostatics, Electromagnetic Induction – SP

c. Magnetism, Maxwell's equations and Electromagnetic wave propagation – SG

4th Semester:

1. DSC-1D (CC-4): Waves and Optics

a. Superposition of Harmonic oscillations, Waves Motion- General, Fluids, Sound – SP

b. Wave Optics, Interference, Michelson's Interferometer, Diffraction, Polarization – JR

6th Semester:

1. DSE-1: Elements of Modern Physics – SG