



Department of Physics
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Ref. No.

Date: 05.07.2024

Course Distribution for B.Sc. Physics General Course 2024-25

Semester I (NEP) (July 2024 to December 2024)

PHSMIN101T/PHSCOR101T - Mechanics

No. of Lectures: 45 Lectures

3 Credits

Course Matter

Resource Person

Vectors
Oscillations

Prof. Snigdha Mahato

Particle Dynamics
Gravitation
Elasticity

Dr. Debojyoti Halder

Semester II (NEP) (January 2025 to June 2025)

PHSMIN202T/PHSCOR202T - Electricity and Magnetism

No. of Lectures: 45 Lectures

3 Credits

Course Matter

Resource Person

Vector Analysis
Linear Network

Prof. Snigdha Mahato

Electrostatics
Magnetism
Electromagnetic Induction

Dr. Debojyoti Halder

Semester III (NEP) (July 2024 to December 2024)

PHSMIN303T/PHSCOR303T - Fluids and Waves

No. of Lectures: 45 Lectures

3 Credits

Course Matter

Resource Person

Fluids

Prof. Snigdha Mahato

Superposition of Harmonic Oscillations

Wave Motion – General

Dr. Debojyoti Halder

Wave optics

Interference and Interferometer

Diffraction

Polarization

Semester IV (NEP) (January 2025 to June 2025)

PHSMIN404T/PHSCOR404T - Thermal Physics and Statistical Mechanics

No. of Lectures: 45 Lectures

3 Credits

Course Matter

Resource Person

Laws of Thermodynamics

Prof. Snigdha Mahato

Thermodynamic Potentials

Dr. Debojyoti Halder

Kinetic Theory of Gases

Statistical Mechanics

Semester V (CBCS) (July 2024 to December 2024)

DSE 1 – Perspective of Modern Physics

No. of Lectures: 60 Lectures

4 Credits

Course Matter

Resource Person

Relativistic Dynamics
Quantum Theory of Light
Bohr's model
Atomic Physics
Nuclear Physics
X-ray and Crystal Structure of Solids

Dr. Debojyoti Halder

Wave-particle Duality
Wave-function Description
Stationary State Problems

Prof. Snigdha Mahato

Semester VI (CBCS) (January 2025 to June 2025)

PHSGDSE04T - Nuclear and Particle Physics

No. of Lectures: 60 Lectures

4 Credits

Course Matter

Resource Person

General Properties of Nuclei
Nuclear Models
Radioactivity decay
Particle Accelerators
Particle physics

Dr. Debojyoti Halder

Nuclear Reactions
Interaction of Nuclear Radiation with matter
Detector for Nuclear Radiations

Prof. Snigdha Mahato



Head,
Department of Physics