

Department of Physics Rishi Bankim Chandra Evening College

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Ref. No. Date: 04.07.2023

Course Distribution for B.Sc. Physics General Course 2023-24

Semester I (NEP) (July 2023 to December 2023)

PHSMIN101T/PHSCOR101T - Mechanics

No. of Lectures: 45 Lectures 3 Credits

<u>Course Matter</u> <u>Resource Person</u>

Vectors Prof. Abhisek Adhikari

Oscillations

Particle Dynamics Dr. Debojyoti Halder

Gravitation Elasticity

Semester II (NEP) (January 2024 to June 2024)

PHSMIN202T/PHSCOR202T - Electricity and Magnetism

No. of Lectures: 45 Lectures 3 Credits

<u>Course Matter</u> <u>Resource Person</u>

Vector Analysis Prof. Abhisek Adhikari

Linear Network

Electrostatics Dr. Debojyoti Halder

Magnetism

Electromagnetic Induction

Semester III (CBCS) (July 2023 to December 2023)

PHSGCOR03T - Thermal Physics and Statistical Mechanics

No. of Lectures: 60 Lectures 4 Credits

<u>Course Matter</u> <u>Resource Person</u>

Laws of Thermodynamics Prof. Abhisek Adhikari

Thermodynamical Potentials

Kinetic Theory of Gases Dr. Debojyoti Halder

Theory of Radiation Statistical Mechanics

Semester IV (CBCS) (January 2024 to June 2024)

PHSGCOR04T - Waves and Optics

No. of Lectures: 60 Lectures 4 Credits

Course Matter Resource Person

Superposition of Two Collinear Harmonic Prof. Abhisek Adhikari

oscillations

Superposition of Two Perpendicular Harmonic

oscillations

Fluids Sound

Wave Motion - General Dr. Debojyoti Halder

Wave optics Interference

Michelson's Interferometer

Diffraction Polarization

Semester V (CBCS) (July 2023 to December 2023)

PHSGDSE02T - Perspectives of Modern Physics

No. of Lectures: 60 Lectures 4 Credits

<u>Course Matter</u> <u>Resource Person</u>

Relativistic Dynamics Dr. Debojyoti Halder

Quantum Theory of Light

Bohr's model Atomic Physics Nuclear Physics

X-ray and Crystal Structure of Solids

Wave-particle Duality Dr. Suman Paul

Wave-function Description Stationary State Problems

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 Dr. Debojyoti Halder

Nuclear Models Radioactivity decay Particle Accelerators Particle physics

Nuclear Reactions Dr. Suman Paul

Interaction of Nuclear Radiation with matter

Detector for Nuclear Radiations

Head, Department of Physics