

**DEPARTMENT OF PHYSICS  
CITY COLLEGE**

**LESSON PLAN FOR THE UNDERGRADUATE COURSE  
ACADEMIC YEAR 2023-2024 [Odd Semesters: 19.09.2023 onwards]**

**Dr. Samapti Pal [Associate Professor]**

Class	Topics to be covered	No. of lectures	Examination
B.Sc. Hons. Semester 1 NEP 2022	DSC1 Basic Physics I: Central Force, Scattering, Mechanics of Continuum	1 class/week	As assigned by the University
B.Sc. Hons. Semester 3 CBCS 2019	Core Course: CC7 Modern Physics: Radiation and Its nature	1 class/week	
B.Sc. Hons. Semester 5 CBCS 2019	Core Course: CC11 Electromagnetic Theory: Polarization, Polarization in uniaxial crystals, Rotatory Polarization	2 class/week	

**Dr. Kausik Mukhopadhyay [Assistant Professor]**

Class	Topics to be covered	No. of lectures	Examination
B.Sc. Hons. Semester 3 CBCS 2019	Core Course: CC5 Mathematical Physics II: Frobenius Method and Special Functions, Some Special Integrals, Partial Differential Equations	2 class/week	
B.Sc. Hons. Semester 3 CBCS 2019	Core Course: CC6 Thermal Physics: Introduction to Thermodynamics, Thermodynamic Potential	2 class/week	
B.Sc. Hons. Semester 5 CBCS 2019	Core Course: CC12 Statistical Physics: Bose-Einstein Statistics, Radiation: classical and quantum aspects, Fermi-Dirac Statistics	2 class/week	

**Dr. Anshuman Nandy [Assistant Professor]**

Class	Topics to be covered	No. of lectures	Examination
B.Sc. Hons. Semester 3 CBCS 2019	Core Course: CC7 Modern Physics Basics of Quantum Mechanics, Nuclear Structure, Interaction with and within nucleus, Lasers	2 class/week	As assigned by the University
B.Sc. Hons. Semester 5 CBCS 2019	DSE-B1 Nuclear and Particle Physics Detector for Nuclear Radiations, Particle Accelerators, Particle Physics	2 class/week	
B.Sc. Gen. Semester 5 CBCS 2019	General Course: DSE-A2 Radiation and its nature, Foundation of Quantum Mechanics	2 class/week	

**Dr. Somdeb Chakraborty [Assistant Professor]**

Class	Topics to be covered	No. of lectures	Examination
B.Sc. Hons. Semester 1 NEP 2022	DSC1 Basic Physics I: Mathematical Physics, Newton's laws, Work-Energy theorem, System of Particles	2 class/week	As assigned by the University
B.Sc. Hons. Semester 3 CBCS 2019	Core Course: CC5 Mathematical Physics III Fourier Series, Integrals Transforms, Introduction to probability	1 class/week	
B.Sc. Hons. Semester 5 CBCS 2019	Core Course: CC12 Statistical Physics Classical Statistical Mechanics, Systems of Identical particles	2 class/week	
B.Sc. Hons. Semester 1 NEP 2022	General Course: Physics Minor Mathematical Physics	1 class/week	

**Dr. Arindam Midya [Assistant Professor]**

Class	Topics to be covered	No. of lectures	Examination
B.Sc. Hons. Semester 3 CBCS 2019	Core Course: CC6 Thermal Physics: Kinetic Theory of Gases, Conduction of Heat	1 class/week	As assigned by the University
B.Sc. Hons. Semester 3 CBCS 2019	SEC A1 Scientific Writing	1 class/week	
B.Sc. Hons. Semester 5 CBCS 2019	DSE A1 Laser, Holography, Non-linear Optics	3 class/week	
B.Sc. Gen. Semester 5 CBCS 2019	General Course: DSE A2 Laser, Special relativity	1 class/week	

**Ms. Debasmita Samanta [SACT]**

Class	Topics to be covered	No. of lectures	Examination
B.Sc. Hons. Semester 5 CBCS 2019	Core Course: CC11 Electromagnetic Theory: Maxwell Equations, EM Wave Propagation in Unbounded Media, EM Wave in Bounded Media	1 class/week	As assigned by the University
B.Sc. Gen. Semester 1 NEP 2022	General Course: Physics Minor Mechanics	2 class/week	
B.Sc. Gen. Semester 3 CBCS 2019	General Course: GE3 Laws of Thermodynamics, Thermodynamical Potentials, Kinetic Theory of Gases, Theory of Radiation	1 class/week	

**Ms. Devdali Banerjee Mitra [SACT]**

<b>Class</b>	<b>Topics to be covered</b>	<b>No. of lectures</b>	<b>Examination</b>
B.Sc. Hons. Semester 5 CBCS 2019	DSE-B1 Nuclear and Particle Physics Introduction, Nuclear Reactions, Interaction of Nuclear Radiation with matter	2 class/week	As assigned by the University
B.Sc. Gen. Semester 3 CBCS 2019	General Course: GE3 Thermodynamics and Statistical Mech. Statistical Mechanics	2 class/week	