

**DEPARTMENT OF PHYSICS
CITY COLLEGE**

**LESSON PLAN FOR THE UNDERGRADUATE COURSE
ACADEMIC YEAR 2021-2022 [Odd Semesters 16.11.2021 onwards]**

Dr. Mitali Middy

Class	Topics to be covered	No. of lectures	Examination
B.Sc. Hons. Semester 1 CBCS 2019	Core Course: CC2 Mechanics: Central Force Motion, Rotational Dynamics	1/week	As assigned by the University
B.Sc. Hons. Semester 3 CBCS 2019	Core Course: CC6 Thermal Physics: Kinetic Theory of Gases, Conduction of Heat	1/week	

Dr. Mita Mondal

Class	Topics to be covered	No. of lectures	Examination
B.Sc. Hons. Semester 1 CBCS 2019	Core Course: CC2 Mechanics: Gravitation, Fluid Motion	1/week	As assigned by the University
B.Sc. Hons. Semester 3 CBCS 2019	Core Course: CC6 Thermal Physics: Introduction to Thermodynamics, Thermodynamic Potentials	2/week	
B.Sc. Gen. Semester 1 CBCS 2019	General Course: GE1: Mechanics: Central force and Gravitation, Elasticity	1/week	

Dr. Samapti Pal

Class	Topics to be covered	No. of lectures	Examination
B.Sc. Hons. Semester 1 CBCS 2019	Core Course: CC1 Mathematical Physics I: Matrices	1/week	As assigned by the University
B.Sc. Hons. Semester 3 CBCS 2019	Core Course: CC7 Modern Physics: Radiation and Its nature	1/week	
B.Sc. Hons. Semester 5 CBCS 2019	Core Course: CC11 Electromagnetic Theory: Polarization, Polarization in uniaxial crystals, Rotatory Polarization	2/week	

Dr. Kausik Mukhopadhyay

Class	Topics to be covered	No. of lectures	Examination
B.Sc. Hons. Semester 1 CBCS 2019	Core Course: CC1 Mathematical Physics I: Calculus	2/week	As assigned by the University
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/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/week	

Dr. Anshuman Nandy

Class	Topics to be covered	No. of lectures	Examination
B.Sc. Hons. Semester 3 CBCS 2019	Core Course: CC7 Basics of Quantum Mechanics, Nuclear Structure, Interaction with and within nucleus, Lasers	2/week	As assigned by the University
B.Sc. Hons. Semester 5 CBCS 2019	DSE-B1 Detector for Nuclear Radiations, Particle Accelerators, Particle Physics	2/week	
B.Sc. Gen. Semester 1 CBCS 2019	General Course: GE1 Mathematical Methods	1/week	
B.Sc. Gen. Semester 5 CBCS 2019	General Course: DSE-A2 Radiation and its nature, Foundation of Quantum Mechanics	2/week	

Dr. Somdeb Chakraborty

Class	Topics to be covered	No. of lectures	Examination
B.Sc. Hons. Semester 1 CBCS 2019	Core Course: CC1 Mathematical Physics I Vector Algebra and Vector Calculus	1/week	As assigned by the University
B.Sc. Hons. Semester 3 CBCS 2019	Core Course: CC5 Fourier Series, Integrals Transforms, Introduction to probability	1/week	
B.Sc. Hons. Semester 5 CBCS 2019	Core Course: CC12 Classical Statistical Mechanics, Systems of Identical particles	2/week	
B.Sc. Hons. Semester 5 CBCS 2019	DSE-A1 Fiber optics, Holography, Introductory Nonlinear Optics	2/week	

Dr. Arindam Midya

Class	Topics to be covered	No. of lectures	Examination
B.Sc. Hons. Semester 1 CBCS 2019	Core Course: CC2 Mechanics Fundamentals of Dynamics, Work and Energy, Non-Inertial Systems	2/week	As assigned by the University
B.Sc. Hons. Semester 3 CBCS 2019	SEC A1 Scientific Writing	1/week	
B.Sc. Hons. Semester 5 CBCS 2019	DSE A1 Einstein coefficients and Rate equations, Basic properties of laser, Resonators, transient effect, Basic Laser Systems, Practical prope	2/week	
B.Sc. Gen. Semester 5 CBCS 2019	General Course: DSE A2 Laser, Special relativity	2/week	

Ms. Debasmita Samanta

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/week	As assigned by the University
B.Sc. Gen. Semester 1 CBCS 2019	General Course: GE1 Introduction to Newtonian Mechanics, Rotational Motion	1/week	
B.Sc. Gen. Semester 3 CBCS 2019	General Course: GE3 Laws of Thermodynamics, Thermodynamical Potentials, Kinetic Theory of Gases, Theory of Radiation	2/week	

Ms. Devdali Banerjee Mitra

Class	Topics to be covered	No. of lectures	Examination
B.Sc. Hons. Semester 5 CBCS 2019	DSE-B1: Nuclear & Particle Physics Introduction, Nuclear Reactions, Interaction of Nuclear Radiation with matter	2/week	As assigned by the University
B.Sc. Gen. Semester 1 CBCS 2019	General Course: GE1 Mechanics Oscillations, Surface tension	1/week	
B.Sc. Gen. Semester 3 CBCS 2019	General Course: GE3 Statistical Mechanics	1/week	