

**DEPARTMENT OF PHYSICS
CITY COLLEGE**

**LESSON PLAN FOR THE UNDERGRADUATE COURSE
ACADEMIC YEAR 2022-2023 [Odd Semesters: 20.08.2022 onwards]**

Dr. Samapti Pal [Associate Professor]

Class	Topics to be covered	No. of lectures	Examination
B.Sc. Hons. Semester 1 CBCS 2019	Core Course: CC1 Mathematical Physics I: Matrices	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 1 CBCS 2019	Core Course: CC1 Mathematical Physics I: Calculus	2 class/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 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 1 CBCS 2019	General Course: GE1 Mathematical Methods, Central Force, Gravitation, Elasticity	1 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 CBCS 2019	Core Course: CC1 Mathematical Physics I Vector Algebra and Vector Calculus	1 class/week	As assigned by the University
B.Sc. Hons. Semester 1 CBCS 2019	Core Course: CC2 Mechanics	4 class/week	
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	

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	4 class/week	
B.Sc. Gen. Semester 5 CBCS 2019	General Course: DSE A2 Laser, Special relativity	2 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 CBCS 2019	General Course: GE1 Mechanics Introduction to Newtonian Mechanics, Rotational Motion	1 class/week	
B.Sc. Gen. Semester 3 CBCS 2019	General Course: GE3 Laws of Thermodynamics, Thermodynamical Potentials, Kinetic Theory of Gases, Theory of Radiation	2 class/week	

Ms. Devdali Banerjee Mitra [SACT]

Class	Topics to be covered	No. of lectures	Examination
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 1 CBCS 2019	General Course: GE1 Mechanics Oscillations, Surface tension	1 class/week	
B.Sc. Gen. Semester 3 CBCS 2019	General Course: GE3 Thermodynamics and Statistical Mech. Statistical Mechanics	1 class/week	