Department of Physics, Harimohan Ghose College Lesson Plan 2023-24: Undergraduate Physics (Multidisciplinary & General)

Semester	Period of Semester	Tentative Dates of University Exam* (*follow the latest notification by CU)	Name of the Faculty	Course Code	Paper Name	Brief Description of the Topic	No. of Lectures
Sem-1 (CCF)	Sep. 2023 to Apr. 2024	Follow the latest notification by CU	Dr. Ambaresh Sahoo	MDC-1/ MDC Minor-1	BASIC PHYSICS-I (Theory)	 Mathematical Physics Classical Mechanics 	
					BASIC PHYSICS-I (Practical)	Classical Mechanics Practical	
				SEC - 1	Introduction to Computer Programming and Graph Plotting (Practical)	 Introduction to Graph Plotting (2D only, using GNUPLOT) Introduction to programming in python (Version 3.x) 	
Sem-3 (CBCS)	Sep. 2023 to Mar. 2024	Follow the latest	Dr. Ambaresh Sahoo	PHS-G- CC-3-3-TH	Thermal Physics and Statistical Mechanics (Theory)	 Thermodynamics, Kinetic Theory of Gases Theory of Radiation Statistical Mechanics 	
				PHS-G- CC-3-3-P	Thermal Physics and Statistical Mechanics (Practical)	Thermal Physics Practical	

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Sem-5 (CBCS)	Aug. 2023 to Feb. 2024	Follow the latest notification by CU	Dr. Ambaresh Sahoo	PHS-G- DSE - A(2)	Modern Physics (Theory)	 Radiation and its nature Foundation of Quantum Mechanics Special Theory of Relativity Lasers 	
				SEC - A-2	Renewable Energy and Energy Harvesting (Theory)	 Fossil fuels and Alternate Sources of energy Solar, Wind, Ocean, Geothermal, Hydro, and Piezoelectric Energy harvesting Fuel Cell 	
Sem-2 (CCF)	Apr. 2024 to Sep. 2024	Follow the latest	Dr. Ambaresh Sahoo	MDC-2/ MDC Minor-2	BASIC PHYSICS-II (Theory)	 Basic Electricity and Magnetism Introduction to Thermodynamics 	
					BASIC PHYSICS-II (Practical)	Electrical devices & Thermal Properties Practical	
				SEC - 1	Introduction to Computer Programming and Graph Plotting (Practical)	 Introduction to Graph Plotting (2D only, using GNUPLOT) Introduction to programming in python (Version 3.x) 	

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Sem-4 (CBCS)	Mar. 2024 to Aug. 2024	Follow the latest notification by CU	Dr. Ambaresh Sahoo	PHS-G- CC-4-4-TH	Waves and Optics (Theory)	 Accoustics, Superposition of Vibrations, Vibration of String Introduction to Wave Optics, Interference, Diffraction, and Polarization 	
				PHS-G- CC-4-4-P	Waves and Optics (Practical)	Sound and Optics Practical	
Sem-6 (CBCS)	Mar. 2024 to Jul. 2024	to Follow the latest	Dr. Ambaresh Sahoo	PHS-G- DSE – B(2)	Nuclear & Particle Physics (Theory)	 General Properties of Nuclei, Nuclear Models, Radioactivity, Nuclear Reactions, Detector for Nuclear Radiations, Particle Accelerators Particle Physics 	
				SEC – B-2	Electrical Circuits and Network skills (Theory)	 DC Generator, Transformer, AC Motor Measurements and Faults 	