

Maulana Azad College
Department of Physics
Lesson Plan 2019-20, Undergraduate Physics (Hons. & General)

Semester	Tentative Dates of University Exam*	Name of the Faculty	Course Code	Paper Name	Brief Description of the Topics		
Sem-2 (CC) Jan'20- Jun'20	follow the latest notification by CU	Dr. Sanjay Chattopadhyay	CC-2-3-TH	Electricity and Magnetism	Dirac Delta Function and it's properties, Electrostatics, Dielectric properties of matter, Method of Images, Electrostatic Energy		
			CC-2-3-P		Electricity and Magnetism Practicals		
		Dr. Sanjit Kumar Das	CC-2-3-TH	Electricity and Magnetism	The Magnetostatic Field, Magnetic Properties of Matter, Electromagnetic Induction, Electrical Circuits		
			CC-2-3-P		Electricity and Magnetism Practicals		
		Dr. Amitava Ghorai	CC-2-4-TH	Waves and Optics	Oscillations, Superpositions of Harmonic Oscillations, Wave Motion, Superposition of Harmonic Waves		
			CC-2-4-P		Wave and Optics Practicals		
		Mrs. Mina Mazumder	CC-2-4-TH	Waves and Optics	Wave Optics, Interference, Interferometers, Diffraction		
			CC-2-4-P		Wave and Optics Practicals		
		Sem-2 (GE) Jan'20- Jun'20	follow the latest notification by CU	Mrs. Indrani Roy	GE2-2-Th	Electricity and Magnetism	Essential Vector Analysis, Electrostatics
					GE2-2-P		Electricity and Magnetism Practicals
Dr, Amitava Ghorai	GE2-2-Th			Magnetism, Electromagnetic Induction, Electrodynamics			
Sri Abhishek Dey	GE2-2-P			Electricity and Magnetism Practicals			
Sem-4 (CC+ SEC) Jan'20- Jun'20	follow the latest notification by CU	Dr. Apurba Kheto	CC-4-8-TH	Mathematical Physics III	Complex Analysis, Integral transforms		
		Sri Abhishek Dey	CC-4-8-TH	Mathematical Physics III	Introduction to Probability, Special Theory of Relativity		
			CC-4-8-P		Solution of ODE/PDE, Dirac-delta function, Fourier series, Frobenius method and special functions, Evaluation of trigonometric functions, Given Bessel's function at N points and its value at an intermediate point, Complex analysis, Integral transform, Introduction to OCTAVE		
		Dr. Apurba Kheto	CC-4-8-TH	Elements of Modern Physics	Unit 1 & Unit 2		
			CC-4-8-P		Modern Physics Practicals		

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Sem-4 (CC+ SEC) Jan'20- Jun'20		Dr. Sanjit Kumar Das	CC-4-8-TH	Elements of Modern Physics	Unit 3, Unit 4
			CC-4-8-TH		Modern Physics Practicals
		Dr. Sanjay Chattopadhyay	CC-4-9-TH	Analog Systems and Applications	Semiconductor Diodes, Amplifiers
			CC-4-9-P		Analog Systems and Applications Practicals
		Mrs. Mina Mazumder	CC-4-9-P	Analog Systems and Applications	Two-terminal Devices and their Applications, Bipolar Junction transistors n-p-n and p-n-p Transistors, Field Effect transistors Basic principle of operations only
			CC-4-9-P		Analog Systems and Applications Practicals
Sri Abhishek Dey	SEC B	Renewable Energy and Energy Harvesting	Fossil fuels and Alternate Sources of energy, Solar Energy, Wind Energy harvesting, Ocean Energy, Geothermal Energy, Hydro-Energy, Piezoelectric Energy harvesting, Electromagnetic Energy Harvesting		
Sem-4 (GE) Jan'20- Jun'20	follow the latest notification by CU	Dr Apurba Kheto	GE-4-4-Th	Wave and Optics	Wave Optics-General, Interference, Michelson's Interferometer Diffraction, Polarization, Transverse nature of light waves
			GE-4-4-P		Wave and Optics Practicals
		Dr. Amitava Ghorai	GE-4-4-Th	Wave and Optics	Superposition of Two Collinear Harmonic oscillations, Superposition of Two Perpendicular Harmonic Oscillation, Wave Motion – General, Sound
		Smt. Indrani Roy	GE-4-4-P	Wave and Optics	Wave and Optics Practicals