

Maulana Azad College
Department of Physics
Lesson Plan 2020-21
Undergraduate Physics (Hons. & 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 Topics	No. of Lectures
Sem-1 (CC)	Jul'20- Dec'20	follow the latest notification by CU	Dr. Apurba Kheto	CC-1-1-TH	Mathematical Physics I	Vector Algebra and Vector Calculus	
				CC-1-1-P	Mathematical Physics I	Mathematical Physics I Practical – Python and GNUPLOT	
			Sri Abhishek Dey	CC-1-1-TH	Mathematical Physics I	Calculus, Matrices	
			Dr. Amitava Ghorai	CC-1-2-TH	Mechanics	Non-Inertial Systems, Rotational Dynamics, Fluid Motion	
				CC-1-2-TH	Mechanics	Fundamentals of Dynamics, Work and Energy, Gravitation and Central Force Motion	
			Dr. Sanjit Kr. Das	CC-1-2-P	Mechanics	Mechanics Practical	
Sem-1 (GE)	follow the latest notification by CU	follow the latest notification by CU	Mrs. Indrani Roy	GE1-1-Th	Mechanics	Mathematical Methods, Introduction to Newtonian Mechanics, Rotational Motion	
				GE1-1-P	Mechanics	Mechanics Practicals	
			Dr. Amitava Ghorai	GE1-1-Th	Mechanics	Central force and Gravitation, Oscillations, Elasticity, Surface Tension	
				GE1-1-P	Mechanics	Mechanics Practicals	
Sem-3 (CC+ SEC)	Jul'20- Dec'20	follow the latest notification by CU	Dr. Apurba Kheto	CC-3-5-TH	Mathematical Physics II	Frobenius Method and Special Functions, Some Special Integrals, Introduction to probability	
			Mrs. Mina Mazumder	CC-3-5-TH	Mathematical Physics II	Fourier series, Integral Transforms, Partial Differential equations	
			Dr. Sanjit Kr. Das	CC-3-5-P	Mathematical Physics II	Numpy-Scipy Matplotlib and Numerical Analysis	
			Mrs. Indrani Roy	CC-3-5-P	Mathematical Physics II	Numpy-Scipy Matplotlib and Numerical Analysis	
			Dr. Amitava Ghorai	CC-3-6-TH	Thermal Physics	Introduction to Thermodynamics, Thermodynamic Potentials	

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			Dr. Sanjay Chattopadhyay	CC-3-6-TH	Thermal Physics	Kinetic Theory of Gases, Conduction of Heat	
				CC-3-6-P	Thermal Physics	Thermal Physics Practicals	
			Dr Sanjit Kr. Das	CC-3-6-P	Thermal Physics	Thermal Physics Practicals	
			Dr. Sanjit Kr. Das	CC-3-7-TH	Modern Physics	Nuclear structure, Interaction with and within Nucleus, Lasers	
			Dr. Apurba Kheto	CC-3-7-TH	Modern Physics	Radiation and its nature, Basics of Quantum Mechanics	
				CC-3-7-P	Modern Physics	Modern Physics Practicals	
			Mrs. Mina Mazumder	CC-3-7-P	Modern Physics	Modern Physics Practicals	
Sri Abhishek Dey	SEC A	Scientific Writing	Scientific Writing (Theory) LaTeX and Scientific Writing (P) Project				
Sem-3 (GE)		follow the latest notification by CU	Dr. Amitava Ghorai	GE-3-3-Th	Thermal Physics and Statistical Mechanics	Laws of Thermodynamics, Thermodynamic Potentials	
				GE-3-3-P	Thermal Physics and Statistical Mechanics	Thermal Physics and Statistical Mechanics Practicals	
			Mrs. Indrani Roy	GE-3-3-Th	Thermal Physics and Statistical Mechanics	Kinetic Theory of Gases, Theory of Radiation, Statistical Mechanics	
				GE-3-3-P	Thermal Physics and Statistical Mechanics	Thermal Physics and Statistical Mechanics Practicals	
Sem-5 (CC+DSE)	Jul'20- Dec'20	follow the latest notification by CU	Sri. Abhishek Dey	CC-5-11-TH	Quantum Mechanics and Applications	Quantum Mechanics and Applications Unit 1,2,3,4,5,6,7,8 (All Units)	
				CC-5-11-P	Quantum Mechanics and Applications	Quantum Mechanics and Applications Practical (Numerical Analysis using Python)	
			Dr. Sanjay Chattopadhyay	CC-5-12-TH	Solid State Physics	Magnetic, Dielectric and Ferroelectric Properties of Matter, Super Conductivity (Unit 3,4,5,7)	
				CC-5-12-P	Solid State Physics	Solid State Physics Practicals	
			Dr. Apurba Kheto	CC-5-12-TH	Solid State Physics	Crystal Structure, Elementary Lattice Dynamics, Elementary band theory (Unit 1,2,6)	
				CC-5-12-P	Solid State Physics	Solid State Physics Practicals	

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			Dr. Sanjay Chattopadhyay	DSE-A1	Laser and Fibre Optics	Unit 2, 3, 4, 5, 6	
			Mrs. Mina Mazumder	DSE-A1	Laser and Fibre Optics	Unit 1, 7, 8, 9	
			Dr. Sanjit Kr Das	DSE-B1	Nuclear and Particle Physics	Unit 1, 2, 3	
			Dr. Amitava Ghorai	DSE-B1	Nuclear and Particle Physics	Unit 4, 5	
			Sri. Abhishek Dey	DSE-B1	Nuclear and Particle Physics	Unit 6	