

Academic Plan of Department of Physics 2024-2025:

Semester	Paper	Time Frame	Topics	Teachers	Other Activities		
1	MDC-1	July	(A) Mathematical Physics 1. Preliminaries	PMC	Class Test		
			(B) Classical Mechanics 1. Review of Newton's Laws	PT			
			Mechanics Practical 1 & 2	PMC & PT			
		August	(A) Mathematical Physics 2. Ordinary Differential Equations 3. Vectors	PMC	Class Test		
			(B) Classical Mechanics 2. Work Kinetic Energy Theorem 3. Dynamics of a system of particles	PT			
			Mechanics Practical 3 & 4	PMC & PT			
		September	(A) Mathematical Physics 4. Curvilinear coordinates	PMC	Class Test		
			(B) Classical Mechanics 4. Central force	PT			
			Mechanics Practical 5 & Revision	PMC & PT			
		October (Puja Vacation: 6 th -31 st)	(B) Classical Mechanics 7. Mechanics of Continuum Revision, Home Assignment & Work Sheet	PMC	Class Test		
			(B) Classical Mechanics 6. Scattering Revision, Home Assignment & Work Sheet	PT			
			Mechanics Practical Practice	PMC & PT			
		November (Puja Vacation: 1 st -5 th)	Revision, Home Assignment & Work Sheet	PMC			
			Revision, Home Assignment & Work Sheet	PT			
		December (Christmas 24 th - 31 st)	Revision & University Examination	PMC			
			Revision & University Examination	PT			
		SEC-1	July		2. Introduction to programming in python (Version 3.x)	PMC	Class Test
					1. Introduction to Graph Plotting (2D only, using GNUPLOT)	PT	
	August			2. Introduction to programming in python (Version 3.x)	PMC	Class Test	
				1. Introduction to Graph Plotting (2D only, using GNUPLOT)	PT		
	September			2. Introduction to programming in python (Version 3.x)	PMC	Class Test	
				1. Introduction to Graph Plotting (2D only, using GNUPLOT)	PT		
	October (Puja Vacation: 6 th -31 st)			Revision, Home Assignment & Work Sheet	PMC	Class Test	
				Revision, Home Assignment & Work Sheet	PT		
November (Puja Vacation: 1 st -16 st)			Revision, Home Assignment & Work Sheet	PMC			
			Revision, Home Assignment & Work Sheet	PT			
December (Christmas 24 th - 31 st)			Revision & University Examination	PMC			
			Revision & University Examination	PT			

Semester	Paper	Time Frame	Topics	Teachers	Other Activities
3	GCC-3	July	Oscillations	PMC	Class Test
			Superposition of harmonic oscillations	PT	
			Waves and Optics Practical 1 & 2	PMC & PT	
		August	Wave motion	PMC	Class Test
			Interference	PT	
			Waves and Optics Practical 3 & 4	PMC & PT	
		September	Geometrical optics	PMC	Class Test
			Diffraction	PT	
			Waves and Optics Practical 4 & 5	PMC & PT	
		October (Puja Vacation: 6 th -31 st)	Revision, Home Assignment & Work Sheet	PMC	Class Test
			Revision, Home Assignment & Work Sheet	PT	
			Revision, Home Assignment & Work Sheet	PMC & PT	
		November (Puja Vacation: 1 st -5 th)	Polarization	PMC	
			Polarization	PT	
		December (Christmas 24 th - 31 st)	Revision & University Examination	PMC	
			Revision & University Examination	PT	
Polarization	PT				
Revision & University Examination	PMCS				

Semester	Paper	Time Frame	Topics	Teachers	Other Activities	
5	DSE-A(1)	July	2. Semiconductor Devices	PMC	Class Test	
			1. Circuits and Network	PT		
			Analog Electronics Practical 1 & 2	PMC & PT		
		August	2. Semiconductor Devices	PMC	Class Test	
			3. Regulated Power Supply 4. Field effect transistor	PT		
			Analog Electronics Practical 3 & 4	PMC & PT		
		September	5. Operational Amplifiers	PMC	Class Test	
			4. Feedback Amplifiers 5. Operational Amplifiers	PT		
			Analog Electronics Practical 5 & Revision	PMC & PT		
		October (Puja Vacation: 6 th -31 st)	Revision, Home Assignment & Work Sheet	PMC	Class Test	
			Revision, Home Assignment & Work Sheet	PT		
			Analog Electronics Practical Practice	PMC & PT		
		November (Puja Vacation: 1 st -5 th)	Revision	PMC		
			Revision	PT		
		December (Christmas 24 th - 31 st)	Revision & University Examination	PMC		
			Revision & University Examination	PT		
		SEC A-2	July	1.Fossil fuels and Alternate Sources of energy	PMC	Class Test
				2.Solar energy	PT	
	August		3.Wind Energy harvesting, 4.Ocean Energy	PMC	Class Test	
			6.Hydro Energy 7. Piezoelectric Energy harvesting	PT		
	September		5.Geothermal Energy	PMC	Class Test	
			8. Electromagnetic energy harvesting, 9. Fuel Cell	PT		
	October (Puja Vacation: 6 th -31 st)		Revision, Home Assignment & Work Sheet	PMC	Class Test	
			Revision, Home Assignment & Work Sheet	PT		
November (Puja Vacation: 1 st -5 th)	Revision, Home Assignment & Work Sheet		PMC			
	Revision, Home Assignment & Work Sheet		PT			
December (Christmas 24 th - 31 st)	Revision & University Examination		PMC			
	Revision & University Examination		PT			