

Academic Plan of Department of Physics 2023-2024:

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: 21 st -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 -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			
		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: 21 st -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	CC-3/GE3	July	1. Laws of Thermodynamics	PMC	Class Test
			4 Theory of Radiation	PT	
			Thermal Physics and Statistical Mechanics Practical 1 & 2	PMC & PT	
		August	2. Thermodynamic Potentials	PMC	Class Test
			5. Thermodynamic Potentials 6. Statistical Mechanics	PT	
			Thermal Physics and Statistical Mechanics Practical 3 & 4	PMC & PT	
		September	3. Kinetic Theory of Gases	PMC	Class Test
			6. Statistical Mechanics	PT	
			Thermal Physics and Statistical Mechanics Practical 5 & Revision	PMC & PT	
		October (Puja Vacation: 21 st -31 st)	Revision, Home Assignment & Work Sheet	PMC	Class Test
			Revision, Home Assignment & Work Sheet	PT	
			Thermal Physics and Statistical Mechanics Practical Practice	PMC & 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		
	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: 21 st -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
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: 21 st -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 -16 st)	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: 21 st -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		