

Academic Plan of Department of Physics CBCS 2022-2023:

Semester	Paper	Time Frame	Topics	Teachers	Other Activities
1	CC-1/GE1	July	1. Mathematical Methods.	PMC	Class Test
			4 Central force and Gravitation.	PT	
			Mechanics Practical 1 & 2	PMC & PT	
		August	2. Introduction to Newtonian Mechanics	PMC	Class Test
			5. Oscillations, 6. Elasticity,	PT	
			Mechanics Practical 3 & 4	PMC & PT	
		September	3. Rotational Motion.	PMC	Class Test
			7. Surface Tension	PT	
			Mechanics Practical 5 & Revision	PMC & PT	
		October (Puja Vacation: 1 st -31 st)	Revision, Home Assignment & Work Sheet	PMC	
			Revision, Home Assignment & Work Sheet	PT	
		November	3. Rotational Motion & Revision	PMC	Class Test
			7. Surface Tension & Revision	PT	
			Mechanics Practical Revision & Practice	PMC & PT	
December (Christmas 24 th - 31 st)	Revision & University Examination	PMC	Class Test		
	Revision & University Examination	PT			

Semester	Paper	Time Frame	Topics	Teachers	Other Activities
2	CC-2/GE2	January	3. Magnetism	PMC	Class Test
			1. Essential Vector Analysis.	PT	
			Electricity and Magnetism Practical 1 & 2	PMC & PT	
		February	3. Magnetism	PMC	Class Test
			2. Electrostatics	PT	
			Electricity and Magnetism Practical 3 & 4	PMC & PT	
		March	4. Electromagnetic Induction	PMC	Class Test
			2. Electrostatics	PT	
			Electricity and Magnetism Practical 5 & Revision	PMC & PT	
		April	5. Electrodynamics	PMC	
			2. Electrostatics	PT	
			Electricity and Magnetism Practical Revision	PMC & PT	
		May	5. Revision & Home assignments	PMC	Class Test
			2. Revision & Home assignments	PT	
			Electricity and Magnetism Practical Practice	PMC & PT	
June	University Examination				

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: 1 st -31 st)	Revision, Home Assignment & Work Sheet	PMC	
			Revision, Home Assignment & Work Sheet	PT	
		November	Revision	PMC	Class Test
			Revision	PT	
			Thermal Physics and Statistical Mechanics Practical Practice	PMC & 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: 1 st -31 st)	Revision, Home Assignment & Work Sheet	PMC	
			Revision, Home Assignment & Work Sheet	PT	
November		Revision	PMC		
		Revision	PT		
December (Christmas 24 th - 31 st)		Revision & University Examination	PMC		
		Revision & University Examination	PT		

Semester	Paper	Time Frame	Topics	Teachers	Other Activities	
4	CC-4/GE4	January	4. Introduction to wave optics	PMC	Class Test	
			1. Acoustics	PT		
			Wave and Optics Practical 1 & 2	PMC & PT		
		February	5. Interference	PMC	Class Test	
			2. Superposition of vibrations	PT		
			Wave and Optics Practical 3 & 4	PMC & PT		
		March	5. Interference 6. Diffraction	PMC	Class Test	
			3. Vibrations in String	PT		
			Wave and Optics Practical 5 & Revision	PMC & PT		
		April	6. Diffraction 7. Polarization	PMC		
			7. Polarization	PT		
			Wave and Optics Practical Revision	PMC & PT		
		May	Revision and home assignments	PMC	Class Test	
			Revision and home assignments	PT		
			Wave and Optics Practical Practice	PMC & PT		
		June	University Examination			
		SEC B-2	January	2. Transformer	PMC	Class Test
				1. DC generator	PT	
	February		2. Transformer	PMC	Class Test	
			1. DC generator	PT		
	March		3. AC motor	PMC	Class Test	
			1. DC generator	PT		
	April		4. Measurement and faults	PMC	Class Test	
			4. Measurement and faults	PT		
May	Revision		PMC			
	Revision		PT			
June	University Examination					
	University Examination					

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: 1 st -31 st)	Revision, Home Assignment & Work Sheet	PMC	
			Revision, Home Assignment & Work Sheet	PT	
		November	Revision	PMC	Class Test
			Revision	PT	
			Analog Electronics Practical Practice	PMC & 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: 1 st -31 st)	Revision, Home Assignment & Work Sheet	PMC	
			Revision, Home Assignment & Work Sheet	PT	
November		Revision	PMC		
		Revision	PT		
December (Christmas 24 th - 31 st)		Revision & University Examination	PMC		
		Revision & University Examination	PT		

Semester	Paper	Time Frame	Topics	Teachers	Other Activities
6	CC-2/GE2	January	3. Digital Circuits	PMC	Class Test
			1 Integrated Circuits 2. Number System	PT	
			Digital Electronics Practical 1 & 2	PMC & PT	
		February	3. Digital Circuits	PMC	Class Test
			5. Sequential Circuits	PT	
			Digital Electronics Practical 3 & 4	PMC & PT	
		March	4. Data Processing Circuits	PMC	Class Test
			5. Sequential Circuits	PT	
			Digital Electronics Practical 5 & Revision	PMC & PT	
		April	6. Registers and Counters	PMC	
			6. Registers and Counters	PT	
			Digital Electronics Practical Revision	PMC & PT	
		May	5. Revision & Home assignments	PMC	Class Test
			2. Revision & Home assignments	PT	
			Digital Electronics Practical Practice	PMC & PT	
June	University Examination				