Semester	Paper	Time Frame	Topics	Teachers	Other Activities
1	GCC-1	July	(A) Mathematical Physics	PMC	Class Test
		-	1. Preliminaries	DT	-
			(B) Classical Mechanics 1. Review of Newton's Laws	PT	
			Mechanics Practical 1 & 2	PMC & PT	-
		August	(A) Mathematical Physics	PMC	Class Test
			2. Ordinary Differential Equations		
			3. Vectors (B) Classical Mechanics	РТ	1
			2. Work Kinetic Energy Theorem	11	
			3. Dynamics of a system of particles		-
		0 1	Mechanics Practical 3 & 4 (A) Mathematical Physics	PMC & PT PMC	
		September	4. Curvilinear coordinates	PIVIC	Class Test
			(B) Classical Mechanics	РТ	
			4. Central force Mechanics Practical 5 & Revision	DMC 0 DT	
		October	(B) Classical Mechanics	PMC & PT PMC	Class Test
		(Puja	7. Mechanics of Continuum	rwic	Class Test
		Vacation:	Revision, Home Assignment & Work Sheet		-
		$21^{\text{st}} - 31^{\text{st}}$	(B) Classical Mechanics 6. Scattering	PT	
		21 51)	Revision, Home Assignment & Work Sheet		
			Mechanics Practical Practice	PMC & PT	
		November	Revision, Home Assignment & Work Sheet	PMC	
		(Puja	Revision, Home Assignment & Work Sheet	PT	-
		Vacation:			
		1 <sup>st</sup> -16 <sup>st</sup> )			
		December	Revision & University Examination	РМС	
		(Christmas $24^{\text{th}} - 31^{\text{st}}$ )	Revision & University Examination	РТ	
	SEC-1	July	2. Introduction to programming in python (Version 3.x)	РМС	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)	РТ	
		September	2. Introduction to programming in python (Version 3.x)	PMC	Class Test
			1. Introduction to Graph Plotting (2D only, using GNUPLOT)	PT	-
		October	Revision, Home Assignment & Work Sheet	РМС	Class Test
		(Puja Vacation:	Revision, Home Assignment & Work Sheet	PT	-
		$21^{\text{st}} - 31^{\text{st}}$			
		November	Revision, Home Assignment & Work Sheet	PMC	
		(Puja Vacation: 1 <sup>st</sup> -16 <sup>st</sup> )	Revision, Home Assignment & Work Sheet	PT	
		December (Christmas	Revision & University Examination	РМС	
		$(24^{\text{th}} - 31^{\text{st}})$	Revision & University Examination	РТ	1

## Academic Plan of Department of Physics 2023-2024:

Semester	Paper	Time Frame	Topics	Teachers	Other Activities
3	CC-3/GE3	July	1. Laws of Thermodynamics	PMC	Class Test
			4 Theory of Radiation	РТ	-
			Thermal Physics and Statistical Mechanics Practical 1 & 2	PMC & PT	-
		August	2. Thermodynamic Potentials	PMC	Class Test
		e	5. Themodynamic Potentials 6. Statistical Mechanics	РТ	
			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	Revision, Home Assignment & Work Sheet	PMC	Class Test
		(Puja Vacation: 21 <sup>st</sup> -31 <sup>st</sup> )	Revision, Home Assignment & Work Sheet	PT	
			Thermal Physics and Statistical Mechanics Practical Practice	PMC & PT	
		November	Revision, Home Assignment & Work Sheet	PMC	
		(Puja Vacation: 1 <sup>st</sup> -16 <sup>st</sup> )	Revision, Home Assignment & Work Sheet	PT	
		December	Revision & University Examination	РМС	
		(Christmas $24^{\text{th}} - 31^{\text{st}}$ )	Revision & University Examination	РТ	
·	SEC A-2	July	1.Fossil fuels and Alternate Sources of energy	РМС	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	РМС	Class Test
			8. Electromagnetic energy harvesting, 9. Fuel Cell	PT	1
		October	Revision, Home Assignment & Work Sheet	PMC	Class Test
		(Puja Vacation: 21 <sup>st</sup> -31 <sup>st</sup> )	Revision, Home Assignment & Work Sheet	PT	
		November	Revision, Home Assignment & Work Sheet	PMC	
		(Puja Vacation: 1 <sup>st</sup> -16 <sup>st</sup> )	Revision, Home Assignment & Work Sheet	PT	
		December (Christmas	Revision & University Examination	PMC	
		$(Christians 24^{th} - 31^{st})$	Revision & University Examination	РТ	1

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	Revision, Home Assignment & Work Sheet	PMC	Class Test
		(Puja	Revision, Home Assignment & Work Sheet	PT	
		Vacation: 21 <sup>st</sup> -31 <sup>st</sup> )	Analog Electronics Practical Practice	PMC & PT	
		November	Revision	PMC	
		(Puja	Revision	PT	
		Vacation:			
		$1^{\text{st}} - 16^{\text{st}}$			
		December	Revision & University Examination	PMC	
		(Christmas $24^{\text{th}} - 31^{\text{st}}$ )	Revision & University Examination	PT	-
	SEC A-2	July	1.Fossil fuels and Alternate Sources of energy	РМС	Class Test
			2.Solar energy	PT	
		August	3. Wind Energy harvesting, 4. Ocean Energy	РМС	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	Revision, Home Assignment & Work Sheet	PMC	Class Test
		(Puja	Revision, Home Assignment & Work Sheet	PT	1
		Vacation: 21 <sup>st</sup> -31 <sup>st</sup> )			
		November	Revision, Home Assignment & Work Sheet	РМС	
		(Puja Vacation: 1 <sup>st</sup> -16 <sup>st</sup> )	Revision, Home Assignment & Work Sheet	PT	
		December (Christmas	Revision & University Examination	РМС	
		$(24^{\text{th}}-31^{\text{st}})$	Revision & University Examination	РТ	1

Semester	Paper	Time Frame	Topics	Teachers	Other Activities
2	GCC-2	January February	Kinetic theory	PMC	Class Test
			Electrostatics	PT	
			Electricity and Magnetism Practical 1 & 2	PMC & PT	
			Zeroth and First Law of Thermodynamics	PMC	Class Test
			Lorentz force	PT	Class Test
			Electricity and Magnetism Practical 3 Thermal Practical 4	PMC & PT	
		March	Second Law of Thermodynamics	PMC	Class Test
			Magnetostatics	PT	
			Thermal Practical 5 & Revision	PMC & PT	
		April	Entropy	PMC	
			Entropy	РТ	
			Practical Revision	PMC & PT	
		May	5. Revision & Home assignments	PMC	Class Test
		5	2. Revision & Home assignments	РТ	1
			Practical Practice	PMC & PT	1
		June	University Examination		
	IDC-2 (Frontiers in Physics)	January	Nature of Science	РМС	Class Test
			Nature of Science	РТ	
		February	Universe	PMC	Class Test
			Heat and Thermodynamics	PT	
		March	Radioactivity	PMC	Class Test
	April May		Atoms and Molecules	PT	
		April	Radioactivity	PMC	
			Forces	PT	
		May	Revision	PMC	Class Test
			Revision	PT	
		June	University Examination		
	CVAC-2.2	AC-2.2 January February	Semiconductors and Sensors	PMC	Class Test
			Protection of Electrical Lines in House	PT	
			Digital Embedded System	PMC	Class Test
		March		PT	
			Digital Embedded System	PMC	Class Test
			Protection of Electrical Lines in House	PT	
		April May	Power Supply in Home Uses	PMC	
			Electrical Machine	РТ	1
			Revision	PMC	Class Test
			Revision	РТ	1
		June	University Examination		

Semester	Paper	Time Frame	Topics	Teachers	Other Activities
4	CC-4/GE4	January	4. Introduction to wave optics	PMC	Class Test
			1. Accoustics	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	РТ	
			Wave and Optics Practical Revision	PMC & PT	
		May	Revision and home assignments	PMC	Class Test
		5	Revision and home assignments	РТ	
			Wave and Optics Practical Practice	PMC & PT	
		June	University Examination		
	SEC B-2	January	2.Transformer	PMC	Class Test
			1.DC generator	РТ	1
		February	2. Transformer	РМС	Class Test
			1.DC generator	PT	
		March	3.AC motor	РМС	Class Test
			1.DC generator	PT	
		April	4. Measurement and faults	PMC	Class Test
			4. Measurement and faults	PT	1
		May	Revision	PMC	
			Revision	PT	
		June	University Examination		
			University Examination		
			Chryeisky Examination		

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	РТ	
			Digital Electronics Practical 3 & 4	PMC & PT	
		March April	4. Data Processing Circuits	PMC	Class Test
			5. Sequential Circuits	PT	
			Digital Electronics Practical 5 & Revision	PMC & PT	
			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		