				PHYSI	CS (HONS.) 2022-23				
					ESTER – I (CBCS)				
			1		22 – December 22	1		-	
Paper	Core Course - 1	No of Lectu- res	Faculty	Paper	Core Course - 2	No of Lectu- res	Faculty	Internal Assessment by College	Parent Teacher Meeting
PHS- A-CC-	Mathematical Physics – I (Theory)	60		PHS- A-CC-	Mechanics (Theory)	60			
1-1TH	1. Calculus	20	GDP	1-2TH	1. Fundamentals of Dynamics	12	BC		
	2. Vector Algebra and Vector Calculus	25	DP	-	2. Work and Energy	8	BC	3 rd week of November	1 st week of December
	3. Matrices	15	SN		3. Gravitation and Central Force Motion	10	DP	_	
					4. Non-Inertial Systems	12	SD	-	
					5. Rotational Dynamics	12	SD	-	
				-	6. Fluid Motion	06	SD	-	
PHS-	Mathematical Physics	60		PHS-	Mechanics (Practical)	60			
A-CC-	- I (Practical)	00	SN +	A-CC-	Witchannes (1 factical)	00			
1-1P	1. Introduction to plotting graphs with Gnuplot	09	SD	1-2P	1.Moment of Inertia & Modulus of Rigidity		BC + GDP		
	2. Introduction to programming in python:		-		2. Moment of Inertia of a Flywheel		-	3 rd week of November	1 st week of December
	(a) Introduction	08			3. To determine the Young modulus, modulus of				

		rigidity and Poisson ratio of the material of a wire by Searle's Dynamic method.
(b) The python iter data type	rables 15	4. To determine the value of g using Bar Pendulum.
(c) Problems and applications	28	5. To determine the height of a building (or a suitable vertical height) using sextant.
		6. Determination of Young's modulus of the material of a beam by the method of flexure.

			1		ary 23 – June 23		·	1	L
Paper	Core Course - 3	No of Lectu- res	Faculty	Paper	Core Course - 4	No of Lectu- res	Faculty	Internal Assessment by College	
PHS- A-CC-	Electricity and Magnetism (Theory)	60		PHS- A-CC-	Waves and Optics (Theory)	60			
2-3- TH	1. Dirac delta function and it's properties	03	SN	2-4-TH	1. Oscillations	08	BC		1 st week of December
	2. Electrostatics	12	SN	-	2.Superposition of Harmonic oscillations	04	BC	3 rd week of November	
	3. Dielectric properties of matter	06	SN	-	3. Wave Motion	04	BC		
	4. Method of Images	04	SN		4. Superposition of Harmonic waves	09	BC		
	5. Electrostatic Energy	03	SN		5. Wave Optics	04	GDP	-	
	6. The Magnetostatic Field	10	SD		6. Interference	10	GDP		
	7. Magnetic properties of matter	07	SD		7. Interferometers	05	DP	-	
	8. Electro-magnetic induction	07	SD		8. Diffraction	16	DP		
	9. Electrical circuits	08	SD	-				1	

PHS-	Electricity and	60		PHS-	Waves and Optics	60			
A-CC-	Magnetism (Practical)		SN +	A-CC-	(Practical)				
2-3-P	1. Introduction and		GDP	2-4-P	1. To determine the				
	Overview				frequency of an electric		BC +		
					tuning fork by Melde's		SD		
					experiment and verify $\lambda^2 - T$				
					law.			3 rd week of	1 st week of
	2. Basics of scientific				2. To study the variation of			November	December
	computing				refractive index of the				
					Material of a prism with				
					wavelengths and hence the				
					Cauchy constants using				
					mercury/helium source.				
	3. Errors and error				3. To determine wavelength				
	Analysis				of sodium light using				
					Fresnel Biprism.		_		
	4. Introduction to				4. To determine wavelength				
	plotting graphs with				of sodium light/radius of				
	Gnuplot / QtiPlot (or				plano convex lens using				
	some other GUI based				Newton's Rings.				
	free software like								
	Grace, Origin etc.)								
	5. Introduction to				5. To determine the		1		
	programming in				thickness of a thin paper by				
	python:				measuring the width of the				
					interference fringes				
					produced by a wedge-				
					shaped Film.				
	6. Programs				6. Measurement of the				
					spacing between the				
					adjacent slits in a grating by				
					measuring sin0vs graph of a				
					certain order of grating				
					spectra.				

				PHYSIC	CS (HONS.) 2022-23				
					TER – III (CBCS)				
Paper	Core Course - 5	No of	Faculty	July 2 Paper	22 – December 22 Core Course - 6	No of	Faculty	Internal	Parent
		Lectu- res				Lectu -res		Assessment by College	Teacher Meeting
PHS- A-CC-	Mathematical Physics - II (Theory)	60		PHS- A-CC-	Thermal Physics (Theory)	60			
3-5- TH	1. Fourier Series	10	SD	3-6-TH	1. Introduction to Thermodynamics	25	GDP		
	2. Frobenius Method and Special Functions	20	SD	-	2. Thermodynamic Potentials	15	GDP	3 rd week of November	1 st week of December
	3. Some Special Integrals	04	SD		3. Kinetic Theory of Gases	15	DP	-	
	4. Integrals Transforms	10	SN		4. Conduction of Heat	05	DP	-	
	5. Introduction to probability	06	SN					-	
	6. Partial Differential Equations	10	SN					-	
PHS- A-CC-	Mathematical Physics - II (Practical)	60	SN +	PHS- A-CC-	Thermal Physics (Practical)	60	DP +		
3-5-P	1. Introduction to numpy and scipy:-		SD	3-6-P	1. Determination of the coefficient of thermal expansion of a metallic rod using an optical lever.		GDP	3 rd week of	1 st week of
	• the numpy array]		2. Calibration of a thermocouple by direct measurement of the thermo-			November	December

					emf using potentiometer and the constants.				
	• Using numpy for matrix operators (the 2D numpy array)				3. To determine the Coefficient of Thermal Conductivity of a bad conductor by Lee and Charlton's disc method.				
	Scientific Applications				 4. To determine the boiling point of a liquid using Platinum Resistance Thermometer (PRT). 				
	2. Introduction to mathplotlib (Using the pyplot submodule)				5. To determine Temperature Coefficient of Resistance using Carey Foster bridge.				
Paper	Core Course - 7	No of Lectu- res	Faculty	Paper	Skill Enhancement Courses – SEC-A1	No of Lectu -res	Faculty	Internal Assessment by College	Parent Teacher Meeting
PHS- A-CC-	Modern Physics (Theory)	60		PHS- A-3-	Scientific Writing (Theory)	15		~; =====	
3-7- TH	1. Radiation and its nature.	15	BC	SEC-	1. Introduction to L ATEX	2	SD	-	
				A-1					
	2. Basics of Quantum	15	BC	A-1 TH	2. Document classes	1	SD	3 rd week of	1 st week of
		15 10	BC BC		2. Document classes3. Page Layout	1 2	SD SD	3 rd week of November	1 st week of December
	2. Basics of Quantum Mechanics	_							
	 2. Basics of Quantum Mechanics 3. Nuclear Structure 4. Interaction with and 	10	BC		3. Page Layout4. List structures5. Representation of	2	SD		
	2. Basics of Quantum Mechanics3. Nuclear Structure4. Interaction with and within nucleus	10 12	BC DP		3. Page Layout4. List structures	2 1	SD SD		
	2. Basics of Quantum Mechanics3. Nuclear Structure4. Interaction with and within nucleus	10 12	BC DP		 3. Page Layout 4. List structures 5. Representation of mathematical equations 	2 1 5	SD SD SN		

PHS- A-CC-	Modern Physics (Practical)	60	BC	PHS- A-3-	Scientific Writing (Project/Practical)	SD		
3-7-P	1. Measurement of Plank constant using LED.			SEC- A-1 PR	1. Writing articles/ research papers/reports			
	2. Verification of Stefan's law of radiation by the measurement of voltage and current of a torch bulb glowing it beyond draper point.				2. Writing mathematical derivation		3 rd week of November	1 st week of December
	3. Determination of e/m of electrons by using bar magnet.				3. Writing Resume			
	4. To study the photoelectric effect: variation of photocurrent versus intensity and wavelength of light.				4. Writing any documentation of a practical done in laboratory with results, tables graphs.			
	5. To show the tunneling effect in tunnel diode using I-V characteristics.				5. Writing graphical analysis taking graphs plotted in gnuplot			

				PHYSI	CS (HONS.) 2022-23				
					ESTER – IV(CBCS)				
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Paper	Core Course - 8	No of Lectu- res	Faculty	Paper	Core Course - 9	No of Lectu -res	Faculty	Internal Assessment by College	Parent Teacher Meeting
PHS- A-CC-	Mathematical Physics - III (Theory)	60		PHS- A-CC-	Analog Systems and Applications (Theory)	60			
4-8- TH	1. Complex Analysis	20	SN	4-9-TH	1. Circuits and Network	04	BC		
	Physics3. Special theory of20SD	SN		2. Semiconductor Diodes and application	08	BC	3 rd week of November	1 st week of December	
	3. Special theory of Relativity	20	SD		3. Bipolar Junction transistors and biasing	10	BC	_	
				-	4. Field Effect transistors	05	BC		
					5. Regulated power supply	03	BC		
					6. Amplifiers	05	BC		
					7. Feedback amplifiers and OPAMP	15	GDP		
					8. Multivibrator	05	GDP		
					9. Oscillators	05	GDP		
PHS- A-CC-	Mathematical Physics – III (Practical)	60	SN +	PHSA- CC-4-	Analog Systems and Applications (Practical)	60			
4-8-P	1. Exploring Gaussian Integrals and the delta function		SD	9-P	1. To study the reverse characteristics of Zener diode and study the load and line regulation.		BC + GDP		
	2. Solution of Differential Equation				2. To study the static characteristics of BJT in CE Configuration.			3 rd week of November	1 st week of December

	4. Quantum theory of hydrogen-like atoms	08	DP						
	3. Quantum mechanics of simple harmonic oscillator4. Quantum theory of	06	DP	-	3. Arduino Programming:	10	GDP		
	2. General discussion of bound states in an arbitrary potential	08	DP	TH	2. Basic ideas	03	GDP	3 rd week of November	1 st week of December
4-10- TH	description			B-1-					
PHS- A-CC- 4-10-	Quantum Mechanics (Theory) 1. Wavepacket	60 05	DP	PHS- A-4- SEC-	ARDUINO (Theory) 1. Introduction to Arduino	15 02	GDP		
Paper	Core Course - 10	No of Lectu- res	Faculty	Paper	Skill Enhancement Courses – SEC-B (Technical Skill)	No of Lectu -res	Faculty	Internal Assessment (by College)	Parent Teacher Meeting
					6. To design a Wien bridge oscillator for given frequency using an op-amp.			-	
					inverting amplifer, non inverting amplier, adder, substractor, comparator, Schmitt trigger, Integrator, differentiator, relaxation oscillator.				
	5. Fourier Series		-		supply. 5. To study OPAMP:				
	4. Solution of some basic PDEs		-		4. Construction of a series regulated power supply from an unregulated power				
	3. Special functions				3. To design and study the frequency response of the BJT amplifier in CE mode.				

	 5. Generalized Angular Momenta and Spin 6. Spectra of Hydrogen atom and its fine structure 7. Atoms in Electric & Magnetic Fields 8. Many electron atoms 	10 05 08 10	SD SD SD SD	-			
PHS- A-CC- 4-10-P	Quantum Mechanics (Practical) 1. Finding eigenstates solving transcendental equation 2. Use of shooting algorithm 3. Time Evaluation of Wave Packet	60	SN + DP	PHS- A-4- SEC- B-1-PR	ARDUINO (Practical/Project)1. LED Blinking and fading.2. Measurement of voltages (Below 5 V and above).3. Interfacing 7 Segment display.4. Construction of thermometer using LM35 or Others.5. Construct the experimental set up for studying simple pendulum and hence determine the acceleration's due to gravity.6. Construct data logger for studying charging and discharging of RC circuit.	GDP	

					CS (HONS.) 2022-23 STER – V(CBCS)				
					22 - December 22				
Paper	Core Course - 11	No of Lectu- res	Faculty	Paper	Core Course - 12	No of Lectu- res	Faculty	Internal Assessment by College	Parent Teacher Meeting
PHS- A-CC- 5-11-	Electromagnetic Theory (Theory)	60		PHS- A-CC- 5-12-	Statistical Mechanics (Theory)	60			
TH	1. Maxwell Equations	10	SN	ТН	1. Classical Statistical Mechanics	25	DP		1 st week of December
	2. EM Wave Propagation in Unbounded Media	20	SN		2. Classical Theory of Radiation	06	DP	3 rd week of November	
	3. EM Wave in Bounded Media	10	SN		3. Quantum Theory of Radiation	07	SD		
	4. Electromagnetic origin of Wave Optics	10	GDP		4. Bose-Einstein Statistics	12	SD		
	5. Polarization in uniaxial crystals		GDP		5. Fermi-Dirac Statistics	10	SD		
	6. Rotatory polarization.	10	GDP						
PHS- A-CC- 5-11-P	Electromagnetic Theory (Theory)	60	BC + DP	PHSA- CC-5- 12-P	Statistical Mechanics (Theory)	60	SD + SN		
5-11-P	1. To determine Brewster's angle for air- glass interface using a prism		-	12-P	1. Study of Random Numbers and Time series			3 rd week of November	1 st week of December
	2. To study Fresnels law by the reflection on the surface of a prism.				2. Applications of Random Numbers				
	3. To verify the Malus law using a pair of polaroids.]		3. Scaling and plots, exponents and parameters				
	4. To study the specific								

	rotation of opticlly active solution using polarimeter. 5. To determine dispersive power and resolving power of a plane diffraction grating.		-				-		
Paper	Discipline Specific Elective Courses	No of Lectu- res	Faculty	Paper	Discipline Specific Elective Courses	No of Lectu- res	Faculty	Internal Assessment by College	Parent Teacher Meeting
PHS- A-5- DSE-	Laser and Fiber Optics (Theory)	75		PHS- A-5- DSE-	Astronomy and Astrophysics - (Theory)	75			
A1(b)- TH	1.Einstein coefficients and Rate equations	20	BC	B1(a)- TH	1. Tools of Astronomy	15	SD		
	2. Basic properties of laser	04	BC	-	2. Stars and stellar systems	25	SD	3 rd week of November	1 st week of December
	3. Resonantors	08	BC	1	3. Galaxies and the Universe	10	SD		
	4. Transient effect	05	BC		4. Cosmology	25	SN		
	5. Basic Laser Systems	07	BC						
	6. Practical properties and uses of laser	05	BC						
	7. Fiber optics	12	DP						
	8. Holography	04	DP	1					
	9. Introductory Nonlinear Optics	10	DP						
	Laser and Fiber Optics (Tutorial)	15	BC + DP		Astronomy and Astrophysics - (Tutorial)	15	SD + SN		

clear and Particle ysics - (Theory) ntroduction Nuclear Reactions	75 5 10	GDP	-				by College	Meeting
		GDP						
Nuclear Reactions	10							
	10	GDP						
nteraction of Nuclear liation with matter	15	GDP	-					
Detector for Nuclear diations	15	SN	-					
Particle Accelerators	15	SN	-					
Particle Physics	15	SN						
clear and Particle	15	GDP + SN						
cl		ear and Particle	lear and Particle GDP +	Image: Second				

					TER – VI (CBCS) ary 23 – June 23				
Paper	Core Course - 13	No of Lectu- res	Faculty	Paper	Core Course - 14	No of Lectu- res	Faculty	Internal Assessment by College	Parent Teacher Meeting
PHS- A-CC- 6-13-	C- Applications (Theory) A- 6-1	PHS- A-CC- 6-14-	Solid State Physics (Theory)	60					
TH	1. Integrated Circuits	05	BC	TH	1. Crystal Structure	12	SD	3 rd week of November	
	2. Number systems	07	BC		2. Elementary Lattice Dynamics	10	SD		1 st week of December
	3. Digital Circuits	16	BC		3. Magnetic Properties of Matter	08	DP		
	4. Implementation of different circuits	06	BC		4. Dielectric Properties of Materials	08	DP		
	5. Data processing circuits	05	BC		5. Drude model	04	DP		
	6. Sequential Circuits	06	GDP		6. Elementary band theory	12	SN		
	7. Registers and Counters	06	GDP		7. Superconductivity	06	SN		
	8. Computer Organization	06	GDP						
	9. Data conversion	03	GDP						

PHS- A-CC- 6-13-P	Digital Systems and Applications (Theory) 1. To design OR & AND logic with diode and resistor. Basic logic gates	60	BC + GDP	PHS- A-CC- 6-14-P	Solid State Physics (Practical) 1. To study BH hysteresis of ferromagnetic material	60	DP + SN	ard to a	ast a c
	with Transistors. To verify the logics by any type of universal gate NAND/NOR.							3 rd week of November	1 st week of December
	2. Construction of half adder and full adder				2. To determine dielectric constant of different materials (solid and liquid) using fixed frequency alternating source.				
	3. Construction of SR, D, JK - FF circuits using NAND gates.				3. Measurement of variation of resistivity in a semiconductor and investigation of intrinsic band gap using linear four probe.				
	4. Construction of 4 bit shift registers (serial & parallel) using D type FF IC.				4. Measurement of hall voltage by four probe method				
	5. Construction of 4:1 multiplexure using basic gates and IC-74151				 5. To study temperature coefficient of a semiconductor (NTC thermistor) and construction of temperature controller with comperator and relay switch. 6. Measurement of magnetic 		_		
					susceptibility of solids.				

Discipline Specific Elective Courses	No of Lectu- res	Faculty	Paper	Discipline Specific Elective Courses	No of Lectu- res	Faculty		Parent Teacher Meeting
Nano Materials and Applications - (Theory)	75		PHS- A-6-	Communication Electronics - (Theory)	75			
1. Nanoscale Systems	10	GDP	B2(a)-	1. Electronic communication	10	BC		
2. Synthesis of Nanostructure Materials	15	GDP	TH	2. Analog Modulation	15	BC	3 rd week of	
3. Characterization	10	GDP		3. Analog Pulse Modulation	10	BC	November	December
4. Optical Properties	15	SD		4. Digital Pulse Modulation	15	DP		
5. Electron Transport	port 10	10 SD		5. Introduction to Communication and Navigation systems	25	DP		
6. Applications	15	SD						
Nano Materials and Applications - (Tutorial)	15	SD + GDP		Communication Electronics - (Tutorial)	15	BC + DP		
	Elective Courses Nano Materials and Applications - (Theory) 1. Nanoscale Systems 2. Synthesis of Nanostructure Materials 3. Characterization 4. Optical Properties 5. Electron Transport 6. Applications Nano Materials and Applications -	Elective CoursesLectu- resNano Materials and Applications - (Theory)75Applications - (Theory)11. Nanoscale Systems102. Synthesis of Nanostructure Materials153. Characterization104. Optical Properties155. Electron Transport106. Applications15Nano Materials and 1515	Elective CoursesLectu- resNano Materials and Applications - (Theory)75Applications - (Theory)101. Nanoscale Systems102. Synthesis of Nanostructure Materials153. Characterization104. Optical Properties155. Electron Transport106. Applications15SDNano Materials and Applications -15SD + GDP	Elective CoursesLectu- resPHS- A-6-Nano Materials and Applications - (Theory)75PHS- A-6-1. Nanoscale Systems10GDPDSE- B2(a)-2. Synthesis of Nanostructure Materials15GDP3. Characterization10GDP4. Optical Properties15SD5. Electron Transport10SD6. Applications -15SDNano Materials and 1515SD5. Plications15SD6. Applications15SD	Elective CoursesLectu- resCoursesNano Materials and Applications - (Theory)75PHS- A-6- DSE- B2(a)-Communication Electronics - (Theory)1. Nanoscale Systems10GDPDSE- B2(a)- TH1. Electronic communication2. Synthesis of 	Elective CoursesLectu- resCoursesLectu- resNano Materials and Applications - (Theory)75PHS- A-6- DSE- B2(a)-Communication Electronics - (Theory)751. Nanoscale Systems10GDPDSE- B2(a)- TH1. Electronic communication102. Synthesis of Nanostructure Materials15GDPTH3. Characterization10GDP3. Analog Modulation155. Electron Transport10SD5. Introduction to Communication and Navigation systems256. Applications -15SD5.Nano Materials and Applications -15SD + GDPCommunication15SD + GDPCommunication15SD + GDPCommunication15SD + GDPCommunication15SD + GDPCommunication15SD + Electronics - (Tutorial)	Elective CoursesLectu- resCoursesLectu- resNano Materials and Applications - (Theory)75PHS- A-6- DSE- B2(a)-Communication Electronics - (Theory)751. Nanoscale Systems10GDP B2(a)-DSE- B2(a)-1. Electronic communication10BC2. Synthesis of Nanostructure Materials15GDP THTH2. Analog Modulation15BC3. Characterization10GDP SD3. Analog Pulse Modulation10BC4. Optical Properties15SD5. Introduction to Communication and Navigation systems25DP6. Applications15SDCommunication SD15BC + DPNano Materials and Applications -15SD + GDPCommunication SD + GDP15BC + DP	Elective CoursesLectu- resLectu- resAssessment by CollegeNano Materials and Applications - (Theory)75PHS- A-6- DSE- B2(a)-Communication Flectronics - (Theory)75Assessment by College1. Nanoscale Systems10GDP DSE- B2(a)-DSE- B2(a)-1. Electronics - (Theory)10BC2. Synthesis of Nanostructure Materials15GDP COPTH1. Electronic communication10BC3. Characterization10GDP SDTH3. Analog Modulation15BC4. Optical Properties15SD5. Introduction to Communication and Navigation systems25DP6. Applications15SD + GDPCommunication SD + GDP15BC + DP

					CS (GEN.) 2022-23 STER – I (CBCS)				
		I	1		2 – December 22	1	1		1
Paper	General/Elective Course - 1	No of Lectur es	Facul ty	Paper	General/Elective Course - 1	No of Lectur es	Faculty	Internal Assessment (by College)	Parent Teacher Meeting
	Mechanics (Theory)	60			Mechanics (Practical)	60			
	1. Mathematical Methods	15	DP		1. Determination of Moment of inertia of cylinder/ rectangular bar				
PHS- G-CC- 1-1TH	2. Introduction to Newtonian Mechanics	s G	3C PHS- G-CC- 1-1P	2. Determination of Y- Modulus of a metal bar by the method of flexure.		DP + BC	3 rd week of November	1 st week of Decembe	
(GE-1)	3. Rotational Motion	10	BC	(GE-1)	3. Determination of Rigidity modulus of the material of a wire.		-		r
	4. Central force and Gravitation	10	SD		4. Determination of Moment of Inertia of a flywheel.				
	5. Oscillations	09	SD		5. Determination of g using bar pendulum				
	6. Elasticity	06	GDP						
	7. Surface Tension	05	GDP						

					S (GEN.) 2022-23				
					FER – II (CBCS)				
Paper	GeneralElective Course - 2	No of Lectur es	Faculty	Paper	ry 23 – June 23 GeneralElective Course - 2	No of Lectur es	Faculty	Assessment	
	Electricity and Magnetism (Theory)	60			Electricity and Magnetism (Practical)	60			
PHS-	1. Essential Vector Analysis	5	DP	PHS-	1. Determination of unknown resistance by Carey Foster method.		BC +	3 rd week of	1 st week of
G-CC- 2-2TH (GE-2)	2. Electrostatics	25	DP	G-CC- 2-2P (GE-2)	2. Measurement of a current owing through a register using potentiometer.		DP	November	December
	3. Magnetism	15	SD		3. Determination of the horizontal components of earth's magnetic field.				
	4. Electro-magnetic induction	05	BC		4. Conversion of an ammeter to a voltmeter.				
	5. Electrodynamics	10	BC		5. Conversion of a voltmeter to an Ammeter.				

					S (GEN.) 2022-23 FER – III (CBCS)				
					– December 22				
Paper	General/Elective Course - 3	No of Lectures	Faculty	Paper	General/Elective Course - 3	No of Lectur es	Faculty	Internal Assessment (by College)	Parent Teacher Meeting
	Thermal Physics and Statistical Mechanics (Theory)	60			Thermal Physics and Statistical Mechanics (Practical)	60			8
PHS- G-CC- 3-3TH (GE-3)	1. Laws of Thermodynamics	18	SN	PHS- G-CC- 3-3P (GE-3)	1. Determination of the coefficient of thermal expansion of a metallic rod using an optical lever		DP + SN	3 rd week of November	1 st week of December
(020)	2. Thermodynamic Potentials	09	SD		2. Verication of Stefan's law using a torch bulb glowing beyond draper point.				
	3. Kinetic Theory of Gases	10	DP		3. To determine the Thermal Coefficient of a resistance using Carey- Foster bridge.				
	4. Theory of Radiation	08	DP		4. To determine the Coefficient of Thermal Conductivity of a bad conductor by Lee and Charlton's disc method.		-		
	5. Statistical Mechanics	15	DP		5. Determination of the Pressure coefficient of air using Jolly's apparatus.				

					CS (GEN.) 2022-23				
					TER – IV(CBCS) ary 23 – June 23				
Paper	General/Elective Course - 4	No of Lectu- res	Faculty	Paper	General/Elective Course - 4	No of Lectu -res	Faculty	Internal Assessment by College	
	Waves and Optics (Theory)	60			Waves and Optics (Practical)	60			
PHS- G-CC-	1. Acoustics	10	SD	PHS- G-CC-	1. Determination of the focal length of a concave lens by auxiliary lens method.		DP + SN	3 rd week of November	1 st week of December
G-CC- 4-4TH (GE-4)	2. Superposition of vibrations	05	SD	4-4P (GE-4)	2. Determination of the frequency of a tuning fork with the help of sonometer using n–l curve.		-		
	3. vibrations in string	08	SN		3. Determination of radius of curvature / wavelength of				
	4. Introduction to wave optics	02	SN		a monochromatic / quasi monochromatic light using Newton's ring.				
	5. Interference	15	SN		4. Measurement of the thickness of a paper from a				
	6. Diffraction	10	DP		wedge shaped film.				
	7. Polarization	10	DP		5. Measurement of specific rotation of active solution (e.g., sugar solution) using polarimeter.				