Department: **PHYSICS**Semester: Second
B.Sc. Single Discipline Honours
(Major 2 & SEC)

Name of the teacher	Title of the teaching assignment	Dividing the assignment into number of units along with detailed lesson plan as per the university syllabus	Date of commenceme nt of the assignment	Number of classes required to complete each unit	Total number of classes
		Introduction		05	
		Dynamics of a system of particles		05	
Parna	UNIT – I: Preliminary	Rotating frame of reference		04	
Roy	Classical	Motion under central forces	-	10	
	Mechanics	. Scattering		02	
		Mechanics of Continuum		06	
		Electric Field and Electric Potential	20.06.2024	08	60
	UNIT – II: Basic Electricity & Magnetism	Electrostatic energy& Capacitor		04	
		Method of Images		03	
Mahadeb Pal		Dielectric Properties of Matter		04	
		Lorentz force		03	
		Magnetic Field		06	
		Magnetic Properties of Matter		03	
		Basic ideas of measurement		03	
		Resistances	-	03	
Sayan	Basic Instrumentation	Analog and digital voltmeter and ammeter	20.06.2024	10	45 (Theory +
Bag	(SEC)	Digital multimeter		04	Practical)
		Introduction to electrical household wiring		25	

Department: **PHYSICS**Semester: Second
B.Sc. Single Discipline Honours

Minor-2

Name of the teacher	Title of the teaching assignment	Dividing the assignment into number of units along with detailed lesson plan as per the university syllabus	Date of commencemen t of the assignment	Number of classes required to complete each unit	Total number of classes
	D 11	Thermodynamic Description of system		15	
Mahadeb Pal	Part-1 Thermal	Thermodynamic Potentials		10	
	Physics	Kinetic Theory of Gases		07	
		Theory of Radiation	20.06.2024	06	45
Di ini	Part-2	Phase space, Macrostate and Microstate		01	
Piyasi Biswas	Statistical Mechanics	Entropy and Thermodynamic probability		02	
		Maxwell-Boltzmann law		02	
		Quantum statistics		02	

Department: **PHYSICS**Semester: Second
B.Sc. Multi Discipline Honours
Major-A2 and SEC

Name of the teacher	Title of the teaching assignment	Dividing the assignment into number of units along with detailed lesson plan as per the university syllabus	Date of commencemen t of the assignment	Number of classes required to complete each unit	Total number of classes
	Part-1	Thermodynamic Description of system		15	
Mahadeb Pal	Thermal Physics	Thermodynamic Potentials		10	
	(Major -A2)	Kinetic Theory of Gases		07	
		Theory of Radiation	20.06.2024	06	45
	Part-2 Statistical Mechanics (Major -A2)	Phase space, Macrostate and Microstate		01	
Piyasi Bisawas		Entropy and Thermodynamic probability		02	
		Maxwell-Boltzmann law		02	
		Quantum statistics		02	
		Basic ideas of measurement		03	
		Resistances		03	
Sayan Bag	Basic Instrumentati	Analog and digital voltmeter and ammeter	20.06.2024	10	45 (Theory +
	on (SEC)	Digital multimeter		04	Practical)
		Introduction to electrical household wiring		25	

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Department: **PHYSICS**Semester: Fourth
B.Sc. Honours
Core Course (CC)

Name of the teacher	Title of the teaching assignment	Dividing the assignment into number of units along with detailed lesson plan as per the university syllabus	Date of commencement of the assignment	Number of classes required to complete each unit	Total number of classes
Sayan Bag	Mathematical Physics III	Complex Analysis Integrals Transforms Matrices Eigen-values and		16 18 15	64
	(C8T)	Eigenvectors Plank Quantum theory		15	
Parna Roy	Elements of Modern Physics (C9T)	Position Measurement Quantum Mechanics Radioactivity	01.03.2024	16 15 17 16	64
	Analog Systems	Semiconductor Diodes Two-terminal Devices and their Applications		9	
Mahadeb Pal	and Applications (C10T)	Bipolar Junction transistors Field Effect transistors		15 10	64
		Amplifiers		15	

Department: **PHYSICS**Semester: Fourth
B.Sc. Honours

Skill Enhancement Course (SEC)

Name of the teacher	Title of the teaching assignment	Dividing the assignment into number of units along with detailed lesson plan as per the university syllabus	Date of commencement of the assignment	Number of classes required to complete each unit	Total number of classes
		Basic of Measurement		2	
	Basic Instrumentation Skills (SEC2T)	Electronic Voltmeter		2	
		Cathode Ray Oscilloscope	01.03.2024	2	
Piyasi Biswas		Signal Generators and Analysis Instruments		3	16
		Impedance Bridges & Q- Meters		2	
		Digital Instruments		3	
		Digital Multimeter		2	

Department: **PHYSICS**Semester: Fourth
B.Sc. Honours
Generic Elective (GE)

Name of the teacher	Title of the teaching assignment	Dividing the assignment into number of units along with detailed lesson plan as per	Date of commencement of the assignment	Number of classes required to complete each	Total number of classes
		the university syllabus		unit	
Mahadeb Pal Sayan Bag		Digital Circuits		10	
	Digital, Analog Circuits and Instrumentation (GE4T)	Circuits and Ampiniers	01.03.2024	12	40
		Operational Amplifiers (Black Box approach)		08	
		Instrumentations		10	

Department: **PHYSICS**Semester: Fourth
B.Sc. General
Core Course-DSC

Name of the teacher	Title of the teaching assignment	Dividing the assignment into number of units along with detailed lesson plan as per the university syllabus	Date of commencement of the assignment	Number of classes required to complete each unit	Total number of classes
		Superposition of Two Collinear H.O.		08	
	Waves and Optics DSC-1D	Superposition of Two Perpendicular H.O.		08	
Piyasi Biswas		Waves Motion- General		06	
		Fluids		08	
		Sound	01.03.2024	06	64
		Wave Optics		08	
D D	Waves and Optics	Michelson's Interferometer		04	
Parna Roy	DSC-1D	Diffraction		08	
		Polarization		08	

Department: **PHYSICS**Semester: Fourth
B.Sc. General

Skill Enhancement Course (SEC)

Name of the teacher	Title of the teaching assignment	Dividing the assignment into number of units along with detailed lesson plan as per the university syllabus	Date of commencement of the assignment	Number of classes required to complete each unit	Total number of classes
		Basic Electricity Principles		04	
		Understanding Electrical Circuits		04	
Mahadeb Pal	Electrical Circuits and Network Skills (SEC2)	Electrical Drawing and Symbols		04	32
		Generators and Transformers		04	
		Electric Motors	01.03.2024	04	
	Electrical Circuits	Solid-State Devices		04	
Sayan Bag	and Network Skills (SEC2)	Electrical Protection		04	
		Electrical Wiring		04	

Department: **PHYSICS**Semester: Sixth
B.Sc. Honours
Core Course (CC)

Name of the teacher	Title of the teaching assignment	Dividing the assignment into number of units along with detailed lesson plan as per the university syllabus	Date of commencement of the assignment	Number of classes required to complete each unit	Total number of classes
		Maxwell Equations		08	
		EM Wave Propagation in Unbounded Media		14	
Mahadeb Pal	Electromagnetic Theory (C13)	EM Wave in Bounded Media		12	64
Wianauch I ai		Polarization of Electromagnetic Waves		12	04
		Wave guides	01.02.2024	10	
		Optical Fibres		08	
		Classical Statistical Mechanics		12	
	Statistical	Classical Theory of Radiation		14	
Parna Roy	Mechanics (C14)	Quantum Theory of Radiation		14	64
		Bose-Einstein Statistics		12	
		Fermi-Dirac Statistics		12	

Department: **PHYSICS**Semester: Sixth
B.Sc. Honours
Discipline Specific Elective (DSE)

Name of the teacher	Title of the teaching assignment	Dividing the assignment into number of units along with detailed lesson plan as per the university syllabus	Date of commencemen t of the assignment	Number of classes required to complete each unit	Total number of classes
		Electronic communication		10	
		Analog Modulation		12	
Sayan Bag	Communication Electronics	Analog Pulse Modulation	-	12	64
	DSE-3	Digital Pulse Modulation		12	
		Introduction to Communication and Navigation systems		10	
		Mobile Telephony System		08	
		Measurements	01.02.2024	08	
		Signals and Systems		10	
		Shielding and Grounding		10	
Piyasi Biswas	Experimental Techniques	Transducers &industrial instrumentation		10	64
·	DSE-4	Digital Multimeter		06	
		Impedance Bridges and Q-meter		10	
		Vacuum Systems		10	

Department: **PHYSICS**Semester: Sixth
B.Sc. General

Skill Enhancement Course (SEC)

Name of the teacher	Title of the teaching assignment	Dividing the assignment into number of units along with detailed lesson plan as per the university syllabus	Date of commencement of the assignment	Number of classes required to complete each unit	Total number of classes
		General Properties of Nuclei		02	
		Nuclear Models		02	
		Radioactivity decay		02	
	Nuclear & Particle	Nuclear Reactions		02	
Mahadeb Pal	Physics SEC-4	Interaction of Nuclear Radiation with matter	01.02.2024	02	16
		Detector for Nuclear Radiations		02	
		Particle Accelerator		02	
		Particle physic		02	

Department: **PHYSICS**Semester: Sixth
B.Sc. General
Discipline Specific Elective (DSE)

Name of the teacher	Title of the teaching assignment	Dividing the assignment into number of units along with detailed lesson plan as per the university syllabus	Date of commencement of the assignment	Number of classes required to complete each unit	Total number of classes
		Time dependent Schrodinger equation Time independent Schrodinger equation		08	
Piyasi Biswas	Quantum Mechanics DSE-1B	Atoms in Electric and Magnetic Fields	01.02.2024	06	36
		Atoms in External Magnetic Fields		08	
		Many electron atoms		06	

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