Department: **PHYSICS**Semester: Second
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 lesion plan as per the university syllabus	Number of classes required to complete each unit	Total number of class
	Electricity and	Electric Field and Electric Potential	09	
Mahadeb Pal	Magnetism (C3T)	Dielectric Properties of Matter	09	
		Magnetic Field	09	
		Magnetic Properties of Matter	09	64
Downo Dov	Electricity and Magnetism	Electromagnetic Induction	09	
Parna Roy	(C3T)	Electrical Circuits	09	
		Network theorems	10	
		Superposition of Collinear Harmonic oscillations	06	
Sayan Bag		Superposition of two perpendicular Harmonic Oscillations	09	
Sayan Dag		Wave Motion	09	
	Waves and Optics	Velocity of Waves	06	
	(C4T)	Superposition of Two Harmonic Waves	06	64
		Wave Optics	04	
Piyasi Biswas		Interference	09	
		Interferometer	08	
		Diffraction and Holography	08	

Department: **PHYSICS**Semester: Second
B.Sc. Honours
Generic Elective (GE)
Core Course (CC)

Name of the teacher	Title of the teaching assignment	Dividing the assignment into number of units along with detailed lesion plan as per the university syllabus	Number of classes required to complete each unit	Total number of classes required to complete the assignment
Piyasi Biswas		Laws of Thermodynamics	10	
	Thermal Physics and Statistical Mechanics	Thermo dynamical	08	50
	(GE2T)	Kinetic Theory of Gases	10	
Sayan Bag		Theory of Radiation	10	
		Statistical Mechanics	12	

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# Shahid Matangini Hazra Government General Degree College for Women Lesson Plan for the academic session 2022-2023

Department: **PHYSICS**Semester: Second

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 lesion plan as per the university syllabus	Number of classes required to complete each unit	Total number of class
	Electricity and	Vector Analysis	10	
Mahadeb Pal	Magnetism		10	
	DSC-1B (CC2)	Electrostatics		
		Magnetism	10	50
Parna Roy	Electricity and Magnetism	Electromagnetic Induction	10	
rama Roy	DSC-1B (CC2)	Maxwell's equations and Electromagnetic wave propagation	10	

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 lesion plan as per the university syllabus	Number of classes required to complete each unit	Total number of class
		Complex Analysis  Integrals Transforms	16 18	
Sayan Bag	Mathematical Physics III	Matrices	15	64
	(C8T)	Eigen-values and Eigenvectors	15	
		Plank Quantum theory	16	
Mahadeb Pal	Elements of Modern Physics	Position Measurement	15	64
Wanades Tar	(C9T)	Quantum Mechanics	17	04
		Radioactivity	16	
		Semiconductor Diodes	9	
		Two-terminal Devices and their Applications	15	
Piyasi Biswas	Analog Systems and Applications	Bipolar Junction transistors	15	64
	(C10T)	Field Effect transistors	10	
		Amplifiers	15	

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### Shahid Matangini Hazra Government General Degree College for Women Lesson Plan for the academic session 2022-2023

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 lesion plan as per the university syllabus	Number of classes required to complete each unit	Total number of class
		Basic of Measurement	2	
		Electronic Voltmeter	2	
		Cathode Ray Oscilloscope	2	
Parna Roy	Basic Instrumentation Skills (SEC2T)	Signal Generators and Analysis Instruments	3	16
		Impedance Bridges & Q- Meters	2	
		Digital Instruments	3	
		Digital Multimeter	2	

Contd....

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 lesion plan as per the university syllabus	Number of classes required to complete each unit	Total number of class
		Digital Circuits	10	
Parna Roy	Digital, Analog Circuits and Instrumentation	Semiconductor Devicesand Amplifiers	12	40
	(GE4T)	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 lesion plan as per the university syllabus	Number of classes required to complete each unit	Total number of class
		Superposition of Two Collinear H.O.	08	
	Waves and Optics	Superposition of Two Perpendicular H.O.	08	
Sayan Bag	DSC-1D	Waves Motion- General	06	
		Fluids	08	64
		Sound	06	<b>.</b>
		Wave Optics	08	
Parna Roy	Waves and Optics	Michelson's Interferometer	04	
	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 lesion plan as per the university syllabus	Number of classes required to complete each unit	Total number of class
		Basic Electricity Principles	04	
	Electrical Circuits	Understanding Electrical Circuits	04	
Mahadeb Pal	and Network Skills (SEC2)	Electrical Drawing and Symbols 04		
		Generators and Transformers	04	32
		Electric Motors	04	
		Solid-State Devices	04	
Piyasi Biswas	Electrical Circuits 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 lesion plan as per the university syllabus	Number of classes required to complete each unit	Total number of class
		Maxwell Equations	08	
		EM Wave Propagation in Unbounded Media	14	
Sayan Bag	Electromagnet ic Theory	EM Wave in Bounded Media	12	64
	(C13)	Polarization of Electromagnetic Waves	12	
		Wave guides	10	
		Optical Fibres	08	
		Classical Statistical Mechanics	12	
Parna Roy	Statistical Mechanics	Classical Theory of Radiation	14	64
	(C14)	Quantum Theory of Radiation	14	
		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 lesion plan as per the university syllabus	Number of classes required to complete each unit	Total number of class
		Electronic communication	10	
		Analog Modulation	12	
Mahadeb Pal	Communication Electronics	Analog Pulse Modulation	12	64
Manage Tai	DSE-3	Digital Pulse Modulation	12	04
		Introduction to Communication and Navigation systems	10	
		Mobile Telephony System	08	
		Measurements	08	
		Signals and Systems	10	64
	Experimental	Shielding and Grounding	10	
Piyasi Biswas	Techniques	Transducers &industrial instrumentation	10	64
	DSE-4	Digital Multimeter	06	
		Impedance Bridges and Q-meter	eter 10	
		Vacuum Systems	10	

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

#### Skill Enhancement Course (SEC)

Skill Elitatioement Course (SEC)				
Name of the teacher	Title of the teaching assignment	Dividing the assignment into number of units along with detailed lesion plan as per the university syllabus	Number of classes required to complete each unit	Total number of class
		General Properties of Nuclei Nuclear Models	02	
		Radioactivity decay	02	
Mahadah Dal	Nuclear & Particle Physics	Nuclear Reactions	02	14
Mahadeb Pal	SEC-4	Interaction of Nuclear Radiation with matter	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 lesion plan as per the university syllabus	Number of classes required to complete each unit	Total number of class
		Time dependent Schrodinger equation	08	
		Time independent Schrodinger equation	08	
Sayan Bag	Quantum Mechanics DSE-1B	Atoms in Electric and Magnetic Fields	06	36
		Atoms in External Magnetic Fields	08	
		Many electron atoms	06	