

## I – Academic Planner

A. Teaching Plan (Year : 2021-2022 Semester: Odd )  
Teacher's Name: Dr. Kajal Jindal Department: Physics

S. No.	UPC	Paper Name	Core/AECC/GE/SEC	Topic/Unit	Start Date	End Date
1.	32221302	Thermal physics	Core	Zeroth Law and First Law of Thermodynamics	Week 1	Week 2
2.	32221302	Thermal physics	Core	Second Law of thermodynamics	Week 3	Week 4
3.	32221302	Thermal physics	Core	Concept of Entropy, Clausius theorem and Third Law	Week 5	Week 6
4.	32221302	Thermal physics	Core	Thermodynamic Potentials	Week 7	Week 8
5.	32221302	Thermal physics	Core	Maxwell Thermodynamic relations	Week 9	Week 10
6.	32221302	Thermal physics	Core	Kinetic theory of Gases	Week 11	Week 12
7.	32221302	Thermal physics	Core	Molecular Collisions	Week 13	Week 13
8.	32221302	Thermal physics	Core	Real Gases	Week 14	Week 15

### B. FDP/Seminar/Workshops/Lectures to be attended and/or to be conducted by Teachers

<b>Event Topic</b>	Webinar on Fundamentals of Laser-Induced Breakdown Spectroscopy (LIBS)				
<b>Type / Nature (FDP/Webinar/Workshop etc.)</b>	Webinar				
<b>Organizing In-charge</b>	Physics Seminar Society				
<b>Details regarding invited Resource Person</b>	Mr. Vishal Dwivedi, Comenius University, Slovakia, Alumnus, Physics Department KMC				
<b>Nature of Participation (e.g. Invited Speaker, Participant etc.)</b>	Participant				
<b>Date/s</b>	October 25, 2021	<b>Timing/s</b>	3:00 p.m.	<b>Mode</b>	Online through Zoom

<b>Event Topic</b>		Online Faculty development Program on Programming in Python			
<b>Type / Nature (FDP/Webinar/Workshop etc.)</b>		<b>FDP</b>			
<b>Organizing In-charge</b>		<b>Prof. Rakesh Pandey, Dr. Sangeeta D. Gadre, Dr. Kajal Jindal</b>			
<b>Details regarding invited Resource Person</b>		Prof. Sandeep Ghugre, UGC-DAE (Department of Atomic Energy), CSR Kolkata			
<b>Nature of Participation (e.g. Invited Speaker, Participant etc.)</b>		<b>Organizer, Participant</b>			
<b>Date/s</b>	December 6th - 10th 2021	<b>Timing/s</b>	2:00 p.m. to 6:00 p.m.	<b>Mode</b>	<b>Online through Zoom</b>

**C. Internal Assessment: House Exam (Test/Presentation etc.)&Assignment\***

<b>Course Code</b>	<b>Course Name</b>	<b>Unique Paper Code</b>	<b>Topic Name</b>	<b>Day and Date</b>	<b>Date/s of Exhibiting the Assessment Sheet to students, Discussing the marks, Returning/Retaining</b>
036	B.Sc. (H) Physics	32221302	Thermodynamics (Zeroth law+ First law +Second law + Third law of thermodynamics), Entropy, Maxwell's relations	02 November, 2021	09 November, 2021
036	B.Sc. (H) Physics	32221302	Diffusion of gases	11 November, 2021	16 November, 2021

\*Marks of the Internal Assessment to be submitted to the College 15 days before the last working day of every semester

**D. Organization of Department/College Society Meetings by Staff Advisor/Convener**

<b>Department/Society</b>	<b>Meeting Date</b>	<b>Purpose</b>

**E. College Functions**

<b>College Function</b>	<b>Function Date</b>	<b>Role to be played</b>
<b>Orientation programme</b>	November 23, 2021	Conduct of orientation programme, addressing first year students
<b>Fresher's Welcome</b>	January 25, 2022	Conduct of programme

## I – Academic Planner

**B. Teaching Plan ( Year : 2021-2022**

**Semester: Even )**

**Teacher's Name: Dr. Kajal Jindal**

**Department: Physics**

S. No.	UPC	Paper Name	Core/AECC/GE /SEC	Topic/Unit	Start Date	End Date
9.	32221202	Waves and Optics	Core	Superposition of Collinear Harmonic oscillations	Week 1	Week 2
10.	32221202	Waves and Optics	Core	Superposition of two perpendicular Harmonic Oscillations	Week 3	Week 3
11.	32221202	Waves and Optics	Core	Wave Motion	Week 4	Week 4
12.	32221202	Waves and Optics	Core	Superposition of Two Harmonic Waves	Week 5	Week 6
13.	32221202	Waves and Optics	Core	Wave Optics	Week 7	Week 7
14.	32221202	Waves and Optics	Core	Interference	Week 8	Week 10
15.	32221202	Waves and Optics	Core	Interferometer	Week 11	Week 11
16.	32221202	Waves and Optics	Core	Fraunhofer Diffraction	Week 12	Week 13
17.	32221202	Waves and Optics	Core	Fresnel Diffraction	Week 14	Week 15

S. No.	UPC	Paper Name	Core/AECC/GE /SEC	Topic/Unit	Start Date	End Date
1.	32221202	Computational Physics	SEC	LateX	Week 1	Week 8
2.	32221202	Computational Physics	SEC	Gnuplot	Week 9	Week 14

### C. Outstation Field visits for students

<b>Project Name / Paper Name</b>	<b>Renewable energy and energy harvesting</b>		
<b>Destination</b>	Chilla Power Plant	<b>Travel Mode</b>	Bus
<b>Departure Month</b>	April 2022	<b>Return</b>	April 2022



F. College Functions

College Function	Function Date	Role to be played
<b>Department Farewell</b>	6 May, 2022	Guiding students for smooth conduct of program