



গড়গাঁও মহাবিদ্যালয়
GARGAON COLLEGE

ICT CLASS REPORT

SESSION: 2022 - 23









DEPARTMENT OF PHYSICS

Name of the faculty: Diganta Konwar









Designation: Associate Professor

Department: Physics

ODD SEMESTER

Date and Time	Semester	Title of the Topic	Tools used	Signature of HOD
16-08-2022	1 st Sem	Review of Newtonian Mechanics	Laptop, projector, screen, pointer.	 HOD Department of Physics Gargaon College
23-08-2022	5 th Sem	Motion of charged particle in crossed electric and magnetic field.	Laptop, projector, screen, pointer.	 HOD Department of Physics Gargaon College
13-09-2022	5 th Sem	Euler-Lagrange equation	Laptop, projector, screen, pointer	 HOD Department of Physics Gargaon College
16-09-2022	3 rd Sem	Classification of Integrated Circuit	Laptop, projector, screen, pointer	 HOD Department of Physics Gargaon College
21-09-2022	1 st Sem	Field Intensity of Solid Sphere	Laptop, projector, screen, pointer	 HOD Department of Physics Gargaon College
12-10-2022	1 st Sem	Motion in the central field	Laptop, projector, screen, pointer	 HOD Department of Physics Gargaon College
13-10-2022	3 rd Sem	OR gate realization by transistor	Laptop, projector, screen, pointer	 HOD Department of Physics Gargaon College
27-10-2022	5 th Sem	Normal and Anomalous Dispersion	Google Class Room	 HOD Department of Physics Gargaon College







EVEN SEMESTER

Date and Time	Semester	Title of the Topic	Tools used	Signature of HOD
09-02-2023	2 nd Sem	Linearity and Superposition Principle	Laptop, projector, screen, pointer	 HOD Department of Physics Gargaon College
13-02-2023	4 th Sem	Energy Band Theory of Crystal.	Laptop, projector, screen, pointer	 HOD Department of Physics Gargaon College
16-02-2023	6 th Sem	Average binding energy vs mass number curve.	Laptop, projector, screen, pointer	 HOD Department of Physics Gargaon College
09-03-2023	6 th Sem	Semi-empirical mass formula	Laptop, projector, screen, pointer	 HOD Department of Physics Gargaon College
09-03-2023	4 th Sem	Full-wave bridge rectifier	Laptop, projector, screen, pointer	 HOD Department of Physics Gargaon College
06-04-2023	2 nd Sem	Analytical Treatment of Standing Wave	Laptop, projector, screen, pointer	 HOD Department of Physics Gargaon College
10-04-2023	4 th Sem	Transistor as an Amplifier	Laptop, projector, screen, pointer	 HOD Department of Physics Gargaon College
16-04-2023	6 th Sem	Particle types and their families	Google Class Room	 HOD Department of Physics Gargaon College

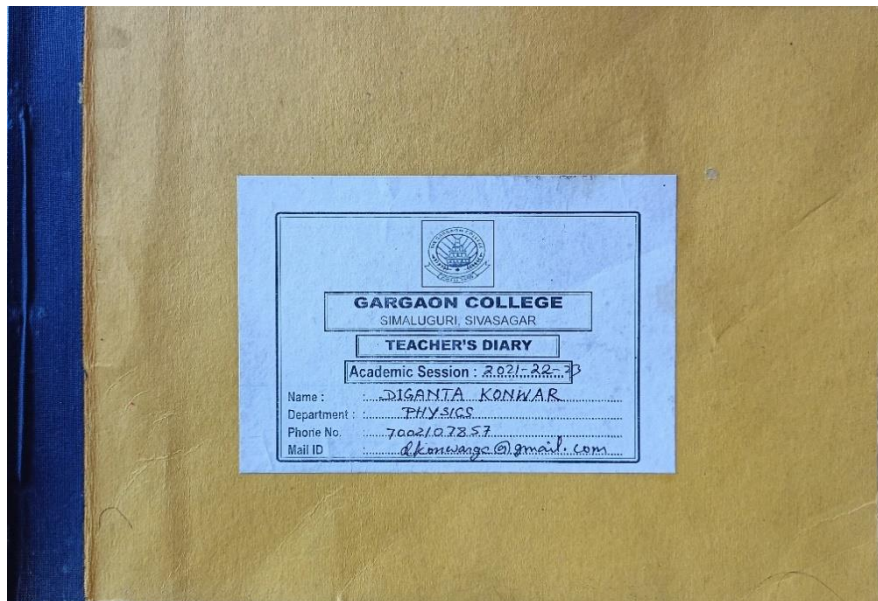

Vice Principal
Gargaon College
Simalugur.

DIGANTA KONWAR

OVERALL STATISTICS OF ICT CLASSES

Semester	Total Class Load	Total ICT Class	Signature of HOD
1 st	26	3	 HOD Department of Physics Gargaon College
2 nd	28	2	 HOD Department of Physics Gargaon College
3 rd	29	2	 HOD Department of Physics Gargaon College
4 th	32	3	 HOD Department of Physics Gargaon College
5 th	35	3	 HOD Department of Physics Gargaon College
6 th	25	3	 HOD Department of Physics Gargaon College


Vice Principal
 Gargaon College
 Simlughur



3. (A) Date wise Brief Record of Classes : Odd Semester-2022

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
16/8/22	GrE-I	Review of Newtonian Mechanics		Offline ICT	
	H-I	Review of Newtonian Mechanics		Offline	
17/8/22	H-V	Review of Newtonian Mechanics		"	
	H-I	Fluid Mechanics - Laminar motion, Coef. Viscosity		"	
18/8/22	H-V	Motion of charged particle in Electric field		"	
20/8/22	H-V	Motion of charged particle in Mag. field		"	
	H-I	Newton's law of viscosity, friction		"	
	GrE-III(P)	Introduction to various Laboratory Apparatus		"	
23/8/22	H-V	Motion of charged particle in cross of Electric & mag. field		ICT	
23/8/22	GrE-III	Maxwell's distribution laws of velocity		Offline	
24/8/22	V-H	Constraint & Rigid Body		"	
	H-I	Poiseuille's Eqn ⁿ		"	
	GrE-I(P)	Exp - MI by F/Wheel, Bar pendulum, Measurement by Calliper, S/Gauss & T/Magn.		"	
				"	

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
25/8/22	H-V	Degree of Freedom, Form of Constraint		Offline	
	H-III	CRO - Synchronic Diagram		"	
24/8/22	H-III	E/Gun, Deflecting System, F/Sonif Time Base		"	
	GEI(P)	F/Wheel, Mammot, Bar Pendulum		"	
27/8/22	H-I	Newton's Law of gravitation		"	
	GEI(P)	F/Wheel, Mammot, Bar Pendulum		"	
	H-III	Deflection Sensitivity		"	
30/8/22	H-V	Generalized coordinates		"	
	GE-III	Experimental verification of Maxwell's distribution law of vel.		"	
31/8/22	H-I	Gravitational pot due to a spherical shell - At a pt outside the shell.		"	
01/9/22	IV-H(P)	D/constant of 4 probe		"	
	III-H	Applications of CRO		"	
3/9/22	H-III	Active and passive components		"	
	H-V	Generalized Notations		"	

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
3/9/22	H-I	Gravitational force due to spherical shell		Offline	
	GEI(P)	Flywheel/Bar Pendulum/Mammot by collison, S/Gun, T/Microscope		"	
5/9/22		Teachmans Day Celebration		"	
6/9/22	H-V	Generalized potential and Gen Force		"	
	GE-III	Mean Free Path		"	
8/9/22	H-V(P)	PE Hysteresis Curve		"	
	H-V	Some techniques of calculus of variation		"	
	H-III	Discrete componts, water, Chips		"	
9/9/22	H-III	Integrated circuits, Scale of Integration classification		"	
	GEI	Practical		"	
12/9/22	HS-II	Pr-jntion		"	
	GE-I	Gravitational force potential		"	
13/9/22	H-V	Euler-Lagrange's Eqn ^M		ECT	

3. (B) Date wise Brief Record of Classes : Even Semester 2023

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
01-02-23					
02-02-23		Gyration External Evaluation			
03-02-23					
04-02-23					
06/02/23	IV(H)	Semiconductor, n type & p-type, Zener, Diodes.		Offline	
	II(H)	Introduction to semiconductor		"	
07/02/23	IV(H)	Comparison of Junction & p-n junction.		"	
	EE-4	Linearity & Superposition		"	
08/2/23	VI(H)	P-n-j-T Theory		"	
	IB(H)	Practical - C-10		"	
09/2/23	II(H)	Linearity & Superposition of wave.		ICT	
	IV(H)	Mobility, conductivity & drift vel.		Offline	
13/2/23	III(H)	Energy Band Theory of crystal.		ICT	
	III(H)	Practical -		"	

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
01/03/23	VI-H	Nuclear Polarity		Offline	
	IV(H)	Determination of barrier potential & F.W.		"	
02/03/23	II(H)	Superposition of N-colium oscillation with equal phase differ.		"	
	IV(H)	Half Wave Rectifier		"	
	VI(H)	Nuclear Magnetic Moment.		"	
3/3/23	II(H)	Superposition of N-colium oscillation with equal freq. differ.		"	
	IV(H)	Efficiency, Ripple Factor and PIV of H.W. Rectifier.		"	
4/3/23	II-GE	Parallel Plate Capacitor.		"	
	II(H)	Lissajous Figure & composition of two SHM of equal period.		"	
6/3/23	IV(H)	Centre Tap F.W. Rectifier.		"	
	VI(H)	Nuclear Electric Moment.		"	
	II(H)	Superposition of two SHM at right angle - freq of one is half of that of other.		"	
9/3/23	II(H)	Waves, Wave Motion, plane & spherical waves.		"	
	VI(H)	Semi-empirical mass formula.		ICT	

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
	IV-H	Capacitor Filter		"	
17/3/23	II(H)	Energy of a progressive wave		"	
	IV(H)	Practical		"	
18/3/23	GE-II	Capacitance of spherical conductor		"	
	II-H	Waves, surface, spherical wave		"	
20/3/23	IV(H)	Zener Diode - Mechanism		"	
21/3/23	VI(H)	Fermi Gas Model - potential well		"	
	GE-IV	Super position of two cosine waves different frequencies		"	
22/3/23	VI(H)	Assumption & evidence of Mill model		"	
	IV(H)	Practical		"	
23/3/23	II(H)	Wave velocity		"	
	VI(H)	Magic Number		"	
	IV(H)	Zener Diode in Voltage Stabilizer		"	
24/3/23	II(H)	Velocity of transverse wave		"	

classroom.google.com/c/NTE4Mjg0MTQ5Njk4

Classroom > 6th Semester (H)-2023

Home Calendar Teaching To review 5 5th Semester 2023 2 2nd Semester(H) 2023 6 6th Semester (H)-2023 P Physics 504 Backlog, 2021 G G.E.-4 2021 4 4th Semester(Hon)-2021 6 6th Semester-2021 2 2nd Semester Honours-2021

Stream Classwork People Grades

6th Semester (H)-2023

Class code: i7rhow7

Upcoming: No work due soon

DIGANTA KONWAR posted a new material: Symmetry and Conservation Laws Apr 23

DIGANTA KONWAR posted a new material: Types of particles and their families. Apr 16

Tomorrow's high Near record

ENG US 18:58 25-12-2023

2nd Semester(H) 2023

classroom.google.com/c/NjA0MjA2OTAwMzky

Classroom > 2nd Semester(H) 2023

Home
Calendar
Teaching
To review
5 5th Semester 2023
2 2nd Semester(H) 2023
6 6th Semester (H)-2023
P Physics 504 Backlog, 2021
G G.E.-4 2021
4 4th Semester(Hon)-2021
6 6th Semester-2021
2 2nd Semester Honours-2021

Stream Classwork People Grades

2nd Semester(H) 2023

Class code
v5mmcky

Upcoming
No work due soon
[View all](#)

Announce something to your class

DIGANTA KONWAR posted a new material: Energy transfer in stationary wave
Apr 21

DIGANTA KONWAR posted a new material: Energy of stationary wave
Apr 21

DIGANTA KONWAR posted a new material: Phase velocity and Group velocity
Apr 21

19°C
Mostly cloudy

Search

ENG US 18:59 25-12-2023

Name of the faculty: Guna Kanta Sonowal







Designation: Assistant Professor

Department: Physics







ODD SEMESTER-2022

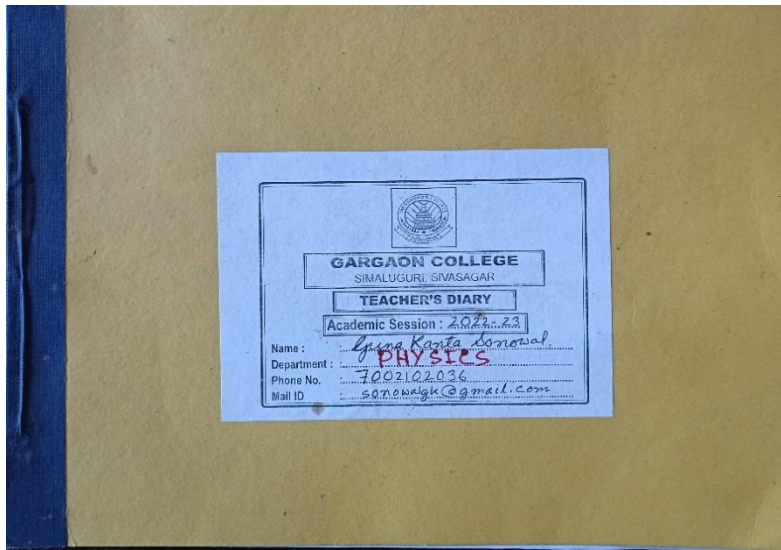
Date and Time	Semester	Title of the Topic	Tools used	
20-08-2022	3 rd Sem	Introduction to Kinetic Theory of Gasses and thermodynamics (Review)	Projector and laptop	HOD Department of Physics Gargaon College
09-09-2022	1 st Sem	C1-Lab- Introduction to C-Programming and CPP Problem: To find the area of triangle	Projector and laptop	HOD Department of Physics Gargaon College
09-09-2022	5 th Sem	C11- Lab- Solution of Schrodinger wave equation in Scilab	Projector and laptop	HOD Department of Physics Gargaon College
16-09-2022	1 st Sem	C1-lab- C-programming to find the biggest number	Projector and laptop	HOD Department of Physics Gargaon College
21-9-2022	5 th Sem	C11-Lab- Scilab	Projector and laptop	HOD Department of Physics Gargaon College
23-9-2022	1 st Sem	C1-lab- using loop to find biggest number in C-programming	Projector and laptop	HOD Department of Physics Gargaon College
14-10-2022	1 st sem	C1-lab- solution of linear equation in CPP	Projector and laptop	HOD Department of Physics Gargaon College
21-10-2022	3 rd Sem	Transport Phenomenon Viscosity of gas, Thermal Conductivity, Diffusion of gas.	Projector and laptop	HOD Department of Physics Gargaon College
26-10-2022	5 th Sem	C11-lab- Scilab	Projector and laptop	HOD Department of Physics Gargaon College
27-10-2022	1 st Sem	C1-lab- solution of linear equation of two variables in CPP	Projector and laptop	HOD Department of Physics Gargaon College
04-11-2022	5 th Sem	C11-lab- Scilab	Projector and laptop	HOD Department of Physics Gargaon College

EVEN SEMESTER-2023

Date and Time	Semester	Title of the Topic	Tools used	
07-02-2023	6 th sem	Phase Space, Division of Phase space into cells, application in statistical Mechanics, ensemble.	Laptop and projector	 HOD Department of Physics Gargaon College
14-02-2022	6 th Sem	Entropy and thermodynamic probability and Lab-Scilab	Laptop and projector	 HOD Department of Physi Gargaon College
28-03-2023	6 th sem	Lab –Statistical mechanics- Scilab	Laptop and projector	 HOD Department of Physi Gargaon College
25-03-2023	6 th Sem	Wines displacement law	Laptop and projector	 HOD Department of Physi Gargaon College
31-03-2023	6 th Sem	Wein's distribution law and comparison with Plank's radiation law in scilab	Laptop and projector	 HOD Department of Physic Gargaon College
04-04-2023	6 th sem	Lab –Statistical mechanics- Scilab	Laptop and projector	 HOD Department of Physics Gargaon College

OVERALL STATISTICS OF ICT CLASSES:

Semester	Total Class Load	ICT Class	Signature of HOD
1 st Sem	24	7	 HOD Department of Physics Gargaon College
2 nd sem	20	9	 HOD Department of Physics Gargaon College
3 rd sem	20	3	 HOD Department of Physics Gargaon College
4 th Sem	36	5	 HOD Department of Physics Gargaon College
5 th Sem	36	4	 HOD Department of Physics Gargaon College
6 th sem	24	7	 HOD Department of Physics Gargaon College



1 (B) Date wise Brief Record of Classes :

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
2/2/23	II-H	Electric field		Offline	
3/2/23	VI-H	Statistical Mechanics introduction		Offline	
	IV-H	Complex number (rev)		Offline	
	GE-IV	Practical		"	
4/2/23		Women's badminton Tournament			
7/2/23	GE-II	Scalar product		"	
	IV-H	Practical		"	
	VI-H	Phase space ensemble	ICT	Offline	
8/2/23	IV-H	de Moivre's theorem, Euler's formula		"	
	II-H	Gauss law & electrostatics		"	
	GE-IV	Damped oscillation			
9/2/23		Bhaona (Bon Akhota)			
10/2/23	VI-H	All absent			
	II-H	All absent			

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
9/7/22	I-H	C programming to find area of a triangle	ICT	Offline	
	V-H	C-II-Lab	ICT	Offline	
12/9/22	V-H	Hamiltonian, stationary state		"	
	GE-III	Phase space		"	
	III-H	V_{av} , V_{rms} and V_{mp}		Offline/Google class room	
13/7/22	III-H	C-6-Lab	ICT	"	
	V-H	wave packet		"	
	IV-H	wave packet in dispersive medium		"	
14/9/22	I-H	Geometrical interpretation of vector product & scalar triple product		"	
	I-H	C-1 Lab, C program to find biggest number of three numbers	ICT	Offline	
	V-H	Form of minimum wave packet (Gaussian wave packet)		"	
17/7/22	GE-III	Thermodynamic probability calculation		"	
	III-H	Degree of freedom		"	
	III-H	Equipartition of energy		"	
20/9/22	III-H	C-6 Lab			

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
22/3	II-H	Relation between dielectric const. & Susceptibility		Offline	
	GE-IV	Application of Fourier series saw tooth wave, square wave		Offline/Google Classroom	
23/3	II-H	Method of image (electric)		"	
24/3	VI-H	Wien's displacement law Black body spectrum (radiation)		"	
	GE-IV	Practical		Offline	
25/3	VI-H	Proof: Wien's displacement law and Lab	ICT	Offline/Google Classroom	
				"	
27/3	GE-II	Stokes's theorem		"	
28/3	IV-H	Taylor's Series & analytic function		"	
	II-H	Gauss law in dielectric medium. Relation between D, E & P		"	
	VI-H	Lab - Acilab	ICT	"	
31/3	VI-H	Wien's distribution law	ICT	"	
	GE-IV	Practical		Offline	

PHOTOS



Stream Classwork People Grades

C14_22_Statistical Mechanics

Class code: **nwrhcbh**

Upcoming: No work due soon [View all](#)

Announce something to your class

Gunakanta Sonowal
Jul 13, 2022
C14_lab: Plot of Specific heat of Solids in Scilab

Plot of specific heat of sol... PDF

- C14_Statistical_Mechanics... 6th Sem
- C8_Complex number_23 IV_sem
- C3_23 2nd sem
- GE_3_22_Statistical_Mech... GE3
- C6_22 3rd Sem
- C1_22_Matematical_Physics 1st_sem
- C11_Quantum Mechanics 5thSem
- GE-2_22_vector
- C14_22_Statistical Mecha...**
- C8_Complex_analysis_22
- C3-22

Stream Classwork People Grades

C11_Quantum Mechanics 5thSem

Class code: **2nidv2k**

Upcoming: No work due soon [View all](#)

Announce something to your class

Gunakanta Sonowal
Nov 18, 2022
C11_1_Solution

Add class comment...

Gunakanta Sonowal
Nov 7, 2022
Magnetic dipole moment of electron

- GE-2 vector 23 Ge2
- GE-IV-23
- C14_Statistical_Mechanics... 6th Sem
- C8_Complex number_23 IV_sem
- C3_23 2nd sem
- GE_3_22_Statistical_Mech... GE3
- C6_22 3rd Sem
- C1_22_Matematical_Physics 1st_sem
- C11_Quantum Mechanics 5thSem**
- GE-2_22_vector
- C14_22_Statistical Mecha...
- C8_Complex_analysis_22



- Home
- Calendar
- Teaching
- To review
- C6_23_Thermal Physics
3rdSem
- C11_23_Quantum mechanics
- GE-3_23- Statistical mech...
GE3
- Ge-2 vector 23
Ge2
- GE-IV-23
- C14_Statistical_Mechanics...
6th Sem
- C8_Complex number_23
IV_sem
- C3_23
2nd sem

Stream Classwork People Grades



Customize



Class code
yrwh327

Announce something to your class

Upcoming
No work due soon
[View all](#)

Gunakanta Sonowal
Oct 29, 2022















Brownian motion















Brownian motion.pdf
PDF

Name of the Teacher: Dr. Gitashri Arandhara







Designation: Assistant Professor

Department: Department of Physics

Date&Time	Semester	Title of the Topic	ToolsUsed	Signature of HoD
01/03/2023	4 th Sem	Photoelectric effect	Projector, Screen, Pointer	
13/03/2023	4 th Sem	Devisison-Germer Experiment	Projector, Screen, Pointer	
30/09/2022	5 th Sem	Miller Indices and Classification of different atomic planes	Projector, Screen, Pointer	
08/10/2022	5 th Sem	X-Ray Diffraction, Bragg's Law	Projector, Screen, Pointer	
14/10/2022	5 th Sem	Lattice Vibration, Monoatomic Lattice Vibration	Projector, Screen, Pointer	
28/10/2022	5 th Sem	Meissner effect, Type-I and Type-II superconductor	Projector, Screen, Pointer	
04/11/2022	5 th Sem	BCS theory of superconductivity and Cooper Pairs	Projector, Screen, Pointer	
14/02/2023	6 th Sem	Scalar and Vector Potential and its applications in Maxwell's equation	Projector, Screen, Pointer	
15/03/2023	6 th Sem	Interaction of Nuclear Radiation with Matter-Charged and Uncharged Radiation	Projector, Screen, Pointer	
30/03/2023	6 th Sem	Interaction of Gamma Radiation with Matter-Photoelectric and Compton effect	Projector, Screen, Pointer	
04/04/2023	6 th Sem	Pair Production, Interaction of neutrons with matter.	Projector, Screen, Pointer	
06/04/2023	6 th Sem	Geiger Muller Counter-Construction, Working, Dead time, Recovery time	Projector, Screen, Pointer	
06/04/2023	6 th Sem	Van-de- Graff Generator (Tendem Accalerator)	Projector, Screen, Pointer	
11/04/2023	6 th Sem	Linear Accelerator	Projector, Screen, Pointer	

Date&Time	Semester	Title of the Topic	ToolsUsed	Signature of HoD
01/03/2023	4 th Sem	Photoelectric effect	Projector, Screen, Pointer	
13/03/2023	4 th Sem	Devisison-Germer Experiment	Projector, Screen, Pointer	
30/09/2022	5 th Sem	Miller Indices and Classification of different atomic planes	Projector, Screen, Pointer	
08/10/2022	5 th Sem	X-Ray Diffraction, Bragg's Law	Projector, Screen, Pointer	
14/10/2022	5 th Sem	Lattice Vibration, Monoatomic Lattice Vibration	Projector, Screen, Pointer	
28/10/2022	5 th Sem	Meissner effect, Type-I and Type-II superconductor	Projector, Screen, Pointer	
04/11/2022	5 th Sem	BCS theory of superconductivity and Cooper Pairs	Projector, Screen, Pointer	
14/02/2023	6 th Sem	Scalar and Vector Potential and its applications in Maxwell's equation	Projector, Screen, Pointer	
15/03/2023	6 th Sem	Interaction of Nuclear Radiation with Matter-Charged and Uncharged Radiation	Projector, Screen, Pointer	
30/03/2023	6 th Sem	Interaction of Gamma Radiation with Matter-Photoelectric and Compton effect	Projector, Screen, Pointer	
04/04/2023	6 th Sem	Pair Production, Interaction of neutrons with matter.	Projector, Screen, Pointer	
06/04/2023	6 th Sem	Geiger Muller Counter-Construction, Working, Dead time, Recovery time	Projector, Screen, Pointer	
06/04/2023	6 th Sem	Van-de- Graff Generator (Tendem Accalerator)	Projector, Screen, Pointer	
11/04/2023	6 th Sem	Linear Accelerator	Projector, Screen, Pointer	

OVERALL STATISTICS OF ICT CLASS

Semester	Total Class Load	Total ICT Class	Signature of HoD
1 st	20	2	 HOD Department of Physics Gargaon College
2 nd	40	5	 HOD Department of Physics Gargaon College
3 rd	15	4	 HOD Department of Physics Gargaon College
4 th	24	4	 HOD Department of Physics Gargaon College
5 th	30	5	 HOD Department of Physics Gargaon College
6 th	25	6	 HOD Department of Physics Gargaon College

Gitashri Arandhara

GEO-TAGGED PHOTOGRAPHS OF THE CLASSES





Garhgaon, Assam, India

WPJV+3H7, Gargaon College Rd, Balighaat, Garhgaon, Assam

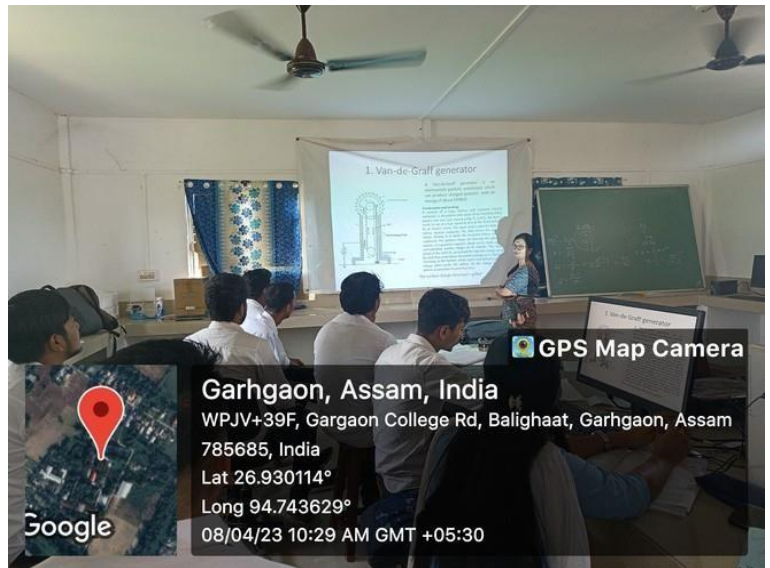
785685, India

Lat 26.930187°

Long 94.74384°

06/04/23 10:43 AM GMT +05:30

Google



Garhgaon, Assam, India

WPJV+39F, Gargaon College Rd, Balighaat, Garhgaon, Assam

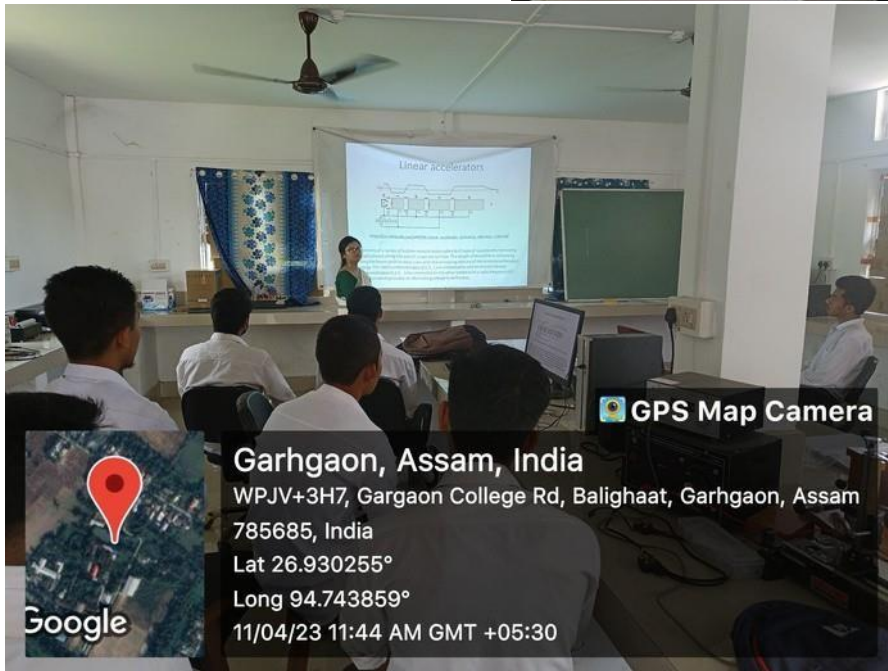
785685, India

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Long 94.743629°

08/04/23 10:29 AM GMT +05:30

Google



Garhgaon, Assam, India

WPJV+3H7, Gargaon College Rd, Balighaat, Garhgaon, Assam

785685, India

Lat 26.930255°

Long 94.743859°

11/04/23 11:44 AM GMT +05:30

Google



Garhgaon, Assam, India

WPJV+3H7, Gargaon College Rd, Balighaat, Garhgaon, Assam

785685, India

Lat 26.930175°

Long 94.743866°

11/04/23 11:43 AM GMT +05:30

Google

Teacher's Diary

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
	3 rd SEM (H)	Refrigerator and 2 nd law of thermodynamics	ICT	Offline	
21/10/22		Debate competition in college	TLM	"	
22/10/22	5 th SEM (H)	Einstein theory of specific heat.	TLM	"	
	5 th SEM (H)	Practical		"	
25/10/22				"	
26/10/22	5 th SEM (H)	Superconductivity, Critical temperature and critical field	TLM	"	
	H.S	Practical		"	
	1 st SEM (G.E)	Work done, work done by constant and variable work, power	TLM	"	
27/10/22	5 th SEM (H)	Practical		"	
	3 rd SEM (H)	2 nd law of thermodynamics. Equivalence of Kelvin-Planck & Clausius statement	ICT	"	
	1 st SEM (G.E)	Practical		"	
28/10/22	5 th SEM (H)	Meissner effect Type I and Type II superconductor	ICT	"	
	3 rd SEM (H)	Carnot's theorem, Thermodynamic scale of temperature.	TLM	"	
	1 st SEM (G.E)	Practical		"	

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
01/10/22	5 th SEM (H)	Atomic and Geometrical factor	TLM	Offline	
				"	
06/10/22	3 rd SEM (H)	Planck's radiation law and its derivation.	TLM	"	
07/10/22	5 th SEM (H)	Types of lattices.	TLM	"	
	1 st SEM (G.E)	Practical		"	
08/10/22	5 th SEM (H)	X-ray diffraction, Brillouin zones, Bragg's law.	ICT	"	
	1 st SEM (G.E)	Practical		"	
10/10/22	3 rd SEM (H)	Reversible & irreversible process, Heat engine		"	
	1 st SEM (H)	Superposition principle of linear differential eq ⁿ , General Sol ⁿ of L.D.E of n th order	ICT	"	
	5 th SEM (H)	Practical		"	
	3 rd SEM (G.E)	Derivation of Planck's radiation formula	TLM	"	
11/10/22	1 st SEM (H)	Complementary function of linear 2 nd order differential equation.	TLM	"	
	5 th SEM (H)	Practical		"	
12/10/22	H.S II	Practical		"	

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
	1 st SEM (G.E)	Momentum and principle of conservation of momentum.	TLM	Offline	
13/10/22	3 rd SEM (H)	Carnot engine and its operation	ICT	"	
	3 rd SEM (G.E)	Wien's radiation law, Rayleigh's Law and Stefan's Law	TLM	"	
	5 th SEM (H)	Practical		"	
14/10/22	5 th SEM (H)	Lattice Vibration, Monoatomic lattice vibration	ICT	"	
	1 st SEM (G.E)	Practical		"	
15/10/22	5 th SEM (H)	Diatomic lattice vibration	TLM	"	
	1 st SEM (G.E)	Practical		"	
	5 th SEM (H)	Practical		"	
17/10/22		C.L		"	
19/10/22	5 th SEM (H)	Specific heat, Classical theory of specific heat (Dulong Petit Law)	TLM	"	
	3 rd SEM (H)	Carnot engine efficiency and Refrigerator	TLM	"	
	H.S (2 nd Year)	Practical		"	
20/10/22	5 th SEM (H)	Practical		"	

3. (B) Date wise Brief Record of Classes : Even Semester 2023

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
2/02/23	6 th SEM (H)	Electromagnetics, Maxwell's Equations Derivation of 1 st , 2 nd & 3 rd Equation	TLM	Offline	
	2 nd SEM (G.E)	Practical		"	
3/02/23		Casual leave.		"	
4/02/23		Student's absent Informer's Inter College Badminton Tournament		"	
5/02/23		SUNDAY			
6/02/23	4 th SEM (H)	Modern Physics, Introduction, Some Fundamental laws of Physics	TLM	"	
	2 nd SEM (G.E)	Electrostatics definition, Electric field, Electric lines of force, properties of electric lines of force, Electric flux.	TLM	"	
7/02/23	6 th SEM (H)	Maxwell's 4 th Equation derivation, Physical significance of Equations.	TLM	"	
	2 nd SEM (H)	Practical		"	
	2 nd SEM (H)	All students are absent		"	
8/02/23	4 th SEM (H)	Black body definition, construction, properties, spectrum of blackbody radiation	ICT	"	
	2 nd SEM (G.E)	Practical		"	
	2 nd SEM (H)	Bhauna Meeting		"	

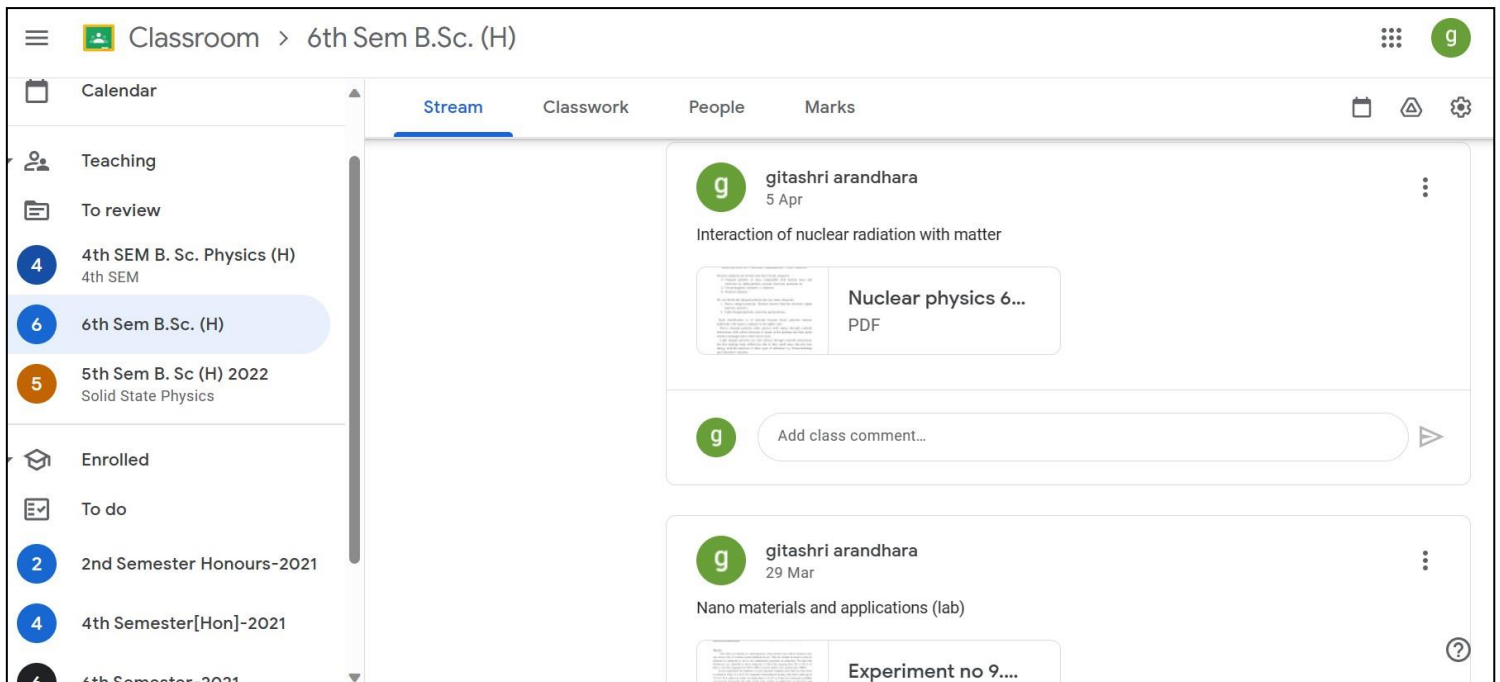
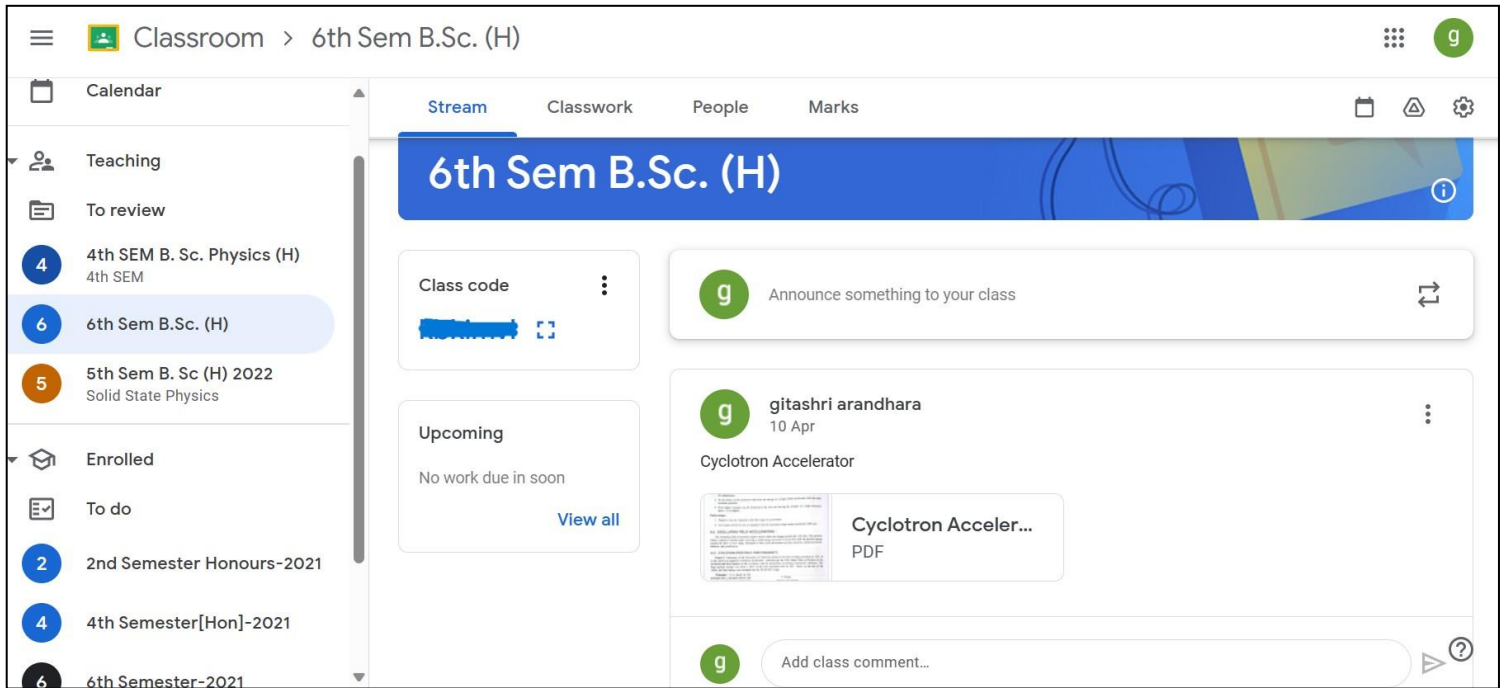
Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
9/02/23	6 th SEM (H)	Only one student present.		Offline	
	2 nd SEM (G.E)	Practical Bhauna Borakhotra		"	
10/02/23		Classes cancelled due to Bhauna			
11/02/23		Bhauna			
13/02/23	4 th SEM (H)	Compton effect definition and discussed its theory	ICT	"	
	2 nd SEM (G.E)	Electric flux, Gauss's law in electrostatics and derivation	TLM	"	
14/02/23	6 th SEM (H)	Scalar and vector potential and its applications in Maxwell's eq ^{ns} .	ICT	"	
	2 nd SEM (H)	Practical		"	
	2 nd SEM (H)	Magnetic force, Lorentz force and Biot Savart's law.	TLM	"	
15/02/23	2 nd SEM (G.E)	Practical		"	
	4 th SEM (H)	Compton effect derivation Energy conservation & momentum conservation	TLM	"	
	2 nd SEM (H)	Biot Savart's law and its applications, Magnetic field intensity due to an long straight conductor	ICT	"	

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
16/02/23	6 th SEM (H)	Maxwell's equations in vector and scalar potential, Gauss transformation	TLM	Offline	
	4 th SEM (G.E)	Optical path, Michelson Interferometer and its construction		"	
	2 nd SEM (G.E)	Practical		"	
17/02/23	6 th SEM (H)	Boundary condition for electric displacement \vec{D} .	TLM	"	
		Meeting for National Seminar of dept of English		"	
18/02/23	2 nd SEM (H)	Magnetic field due to an infinitely long straight conductor.	TLM	"	
20/02/23	4 th SEM (H)	Derivation for Compton shift, Compton wavelength, direction of recoil electron	TLM	"	
	2 nd SEM (G.E)	Electric field due to infinite line of charge and uniformly charged spherical shell - point lies outside, surface and inside the shell.	TLM	"	
21/02/23		Local Holiday due to Maha Sivratri			
22/02/23	4 th SEM (H)	Kinetic energy of recoil electron	TLM	"	
	2 nd SEM (H)	Magnetic field due to a circular current carrying loop, current loop as a magnetic dipole, analogous between magnetic & electric dipole.	ICT	"	
	2 nd SEM (G.E)	Practical		"	

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
23/02/23	6 th SEM (H)	Boundary conditions for \vec{E} and \vec{B}	TLM	Offline	
	4 th SEM (H)	Formation of circular fringes in Michelson's interferometer and path difference	TLM	"	
	2 nd SEM (G.E)	Practical		"	
24/02/23		National Conference organized by Dept of English		"	
25/02/23				"	
27/02/23		National Science Day Celebrated by all science depts of College.		"	
28/02/23				"	
1/03/23	4 th SEM (H)	Photoelectric effect and its experimental observation	ICT		
	2 nd SEM (H)	Ampere's Circuital Law and its application to solenoid	TLM	"	
	2 nd SEM (G.E)	Practical		"	
2/03/23	6 th SEM (H)	Class Test		"	
	2 nd SEM (G.E)	Practical		"	
	4 th SEM (G.E)	Curved and straight line fringes in Michelson's Interferometer. Application of Michelson's Interferometer - ① Determination of wavelength.	TLM	"	

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
3/03/23	6 th SEM (H)	Wave equation - Plane waves due to dielectric media, Mutual dependence of Electric \vec{E} , Magnetic \vec{B} and propagation vector \vec{k} . Poynting vector and Poynting theorem.	TLM	Offline	
	4 th SEM (H)	Previous Year question paper discussion		"	
4/03/23	2 nd SEM (H)	Application of Ampere's Circuital law to Toroid, Properties of magnetic field \vec{B} , divergence and curl.	ICT	"	
6/03/23	6 th SEM (H)	Derivation of Poynting theorem	TLM	"	
	2 nd SEM (G.E)	Electric field due to uniformly charged sphere.	TLM	"	
7/03/23		Holi		"	
8/03/23	4 th SEM (H)	Einstein theory of photoelectric effect.	TLM	"	
		Womens Day Celebration		"	
9/03/23	6 th SEM (H)	Electromagnetic energy density, its expression in terms of electric and magnetic field.	TLM	"	
	2 nd SEM (G.E)	Practical		"	

Screenshots of Google Classroom



Classroom > 6th Sem B.Sc. (H)

Calendar

Teaching

To review

- 4 4th SEM B. Sc. Physics (H) 4th SEM
- 6 6th Sem B.Sc. (H)
- 5 5th Sem B. Sc (H) 2022 Solid State Physics

Enrolled

To do

- 2 2nd Semester Honours-2021
- 4 4th Semester[Hon]-2021
- 6 6th Semester-2021

Stream Classwork People Marks

Add class comment...

g gitashri arandhara 29 Mar Nano materials and applications (lab)

Experiment no 9... PDF

Add class comment...

Classroom > 4th SEM B. Sc. Physics (H) 4th SEM

Calendar

Teaching

To review

- 4 4th SEM B. Sc. Physics (H) 4th SEM
- 6 6th Sem B.Sc. (H)
- 5 5th Sem B. Sc (H) 2022 Solid State Physics

Enrolled

To do

- 2 2nd Semester Honours-2021
- 4 4th Semester[Hon]-2021
- 6 6th Semester-2021

Stream Classwork People Marks

4th SEM B. Sc. Physics (H) 4th SEM

Class code

g Announce something to your class














g gitashri arandhara 5 Apr Two slit interference experiment and linear superposition principle











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





Name of the faculty: Jayanta Sonowal

Designation: Assistant Professor







Department: Physics

Date & Time	Semester	Title of the Topic	Tools Used	Signature of HoD
17/08/2022	III (H)	SCILAB PRACTICAL	COMPUTER, PROJECTOR	
18/08/2022	I (H)	LAWS OF MOTION	COMPUTER, PROJECTOR	
25/08/2022	V (H)	INTRODUCTION TO ASTRONOMY AND ASTROPHYSICS	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
25/08/2022	I (H)	GALILEAN TRANSFORMATION	COMPUTER, PROJECTOR	
27/08/2022	V (H)	SRELLAR PARAMETERS	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
1/09/2022	III (H)	LEAST SQUARE FIT METHOD	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
1/09/2022	I (H)	GALILEAN TRANSFORMATION	COMPUTER, PROJECTOR	
2/09/2022	V (H)	APPARENT MAGNITUDE AND BRIGHTNESS	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
3/09/2022	V (H)	ABSOLUTE MAGNITUDE AND LUMINOSITY	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
6/09/2022	III (H)	SEPARATION OF VARIABLE METHOD	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
8/09/2022	III (H)	EQUATION OF VIBRATING STRING	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
8/09/2022	V (H)	STELLAR RADII AND MASS	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
9/09/2022	III (H)	DIFFUSION EQUATION	COMPUTER, PROJECTOR	

3/03/2023	VI (H)	TRANSMISSION ELECTRON MICROSCOPY	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
9/03/2023	IV (H)	PROTON NEUTRON THEORY AND THEIR CLASSIFICATION	COMPUTER, PROJECTOR	
13/03/2023	VI (H)	COLUMB INTERACTION IN NANOSTRUCTURES	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
22/03/2023	II (H)	THIN FILM: OPTICAL INTERFERENCE	COMPUTER, PROJECTOR	
23/03/2023	II (H)	THIN FILM: TRANSMITTED RAY	COMPUTER, PROJECTOR	
24/03/2023	VI (H)	QUANTITATIVE TREATMENT OF QUASI PARTICLE	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
31/03/2023	II (H)	INTERFERENCE DUE TO TRANSMITTED RAY	COMPUTER, PROJECTOR	
3/04/2023	VI (H)	ELECTRON TRANSPORT	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
6/04/2023	VI (H)	APPLICATION OF NANOMATERIALS	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
8/04/2023	VI (H)	APPLICATION OF NANOMATERIALS	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	

12/09/2022	V (H)	STELLAR TEMPERATURE	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
13/09/2022	III (H)	VIBRATING MEMBRANE	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
10/10/2022	III (H)	8085 MICROPROCESSOR PIN-OUT DIAGRAM	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
11/10/2022	III (H)	MOV TIMING DIAGRAM	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
13/10/2022	III (H)	MVI DIAGRAM	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
14/10/2022	III (H)	MVI DIAGRAM	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
14/10/2022	III (H)	8085 MICROPROCESSOR ORAL TEST	COMPUTER, PROJECTOR A	
14/10/2022	III (H)	CLASS TEST	COMPUTER, PROJECTOR	
20/10/2022	III (H)	TIMING DIAGRAM CLASS DISCUSSION	COMPUTER, PROJECTOR	
8/02/2023	VI (H)	BALL MILLING AND GAS PHASE CONDENSATION	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
9/02/2023	IV (H)	SCILSB PRACTICAL (C-8)	COMPUTER, PROJECTOR	
22/02/2023	VI (H)	X-RAY DIFFRACTION METHOD	COMPUTER, PROJECTOR	
1/03/2023	VI (H)	OPTICAL MICROSCOPY	COMPUTER, PROJECTOR AND GOOGLE CLASSROOM	
2/03/2023	IV (H)	SCILSB PRACTICAL (C-8)	COMPUTER, PROJECTOR	


OVERALL STATISTICS OF ICT CLASS

Semester	Total Class Load	Total ICT Class	Signature of HoD
1 st	22	3	
2 nd	22	3	
3 rd	45	13	
4 th	23	4	
5 th	23	6	
6 th	26	9	



Signature of teacher

Jayanta Sonowal
Gargaon College
Dept. of Physics



HOD
Department of Physics
Gargaon College

**GARGAON COLLEGE**

SIMALUGURI, SIVASAGAR

TEACHER'S DIARYAcademic Session : 2021-2022

Name : JAYANTA SONOWAL
Department : PHYSICS
Phone No. : 8638269458
Mail ID : jsnowal.99@gmail.com

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
12/10/21	III-H	C-5 Practical	TLM	Off Line	9:00 - 11:00
12/10/21	III-4E	GE-III Practical	TLM	Off Line	11:00 - 1:00
13/10/21	III-H	MVI Diagram	ICT/TLM	Off Line	9:00 - 10:00
13/10/21	V-H	Astrophysics Seminar	ICT	Off Line	2:00 - 2:30
14/10/21	V-H	Astronomy Seminar	ICT	Off Line	2:30 - 3:00
13/10/21	I-H	Maximum Height & Range of Projectiles	TLM	Off Line	12:00 - 1:00
14/10/21	HS-2nd	Alternating EMF & Current	TLM	Off Line	10:00 - 11:00
14/10/21	III-H	MVI Diagram	ICT/TLM	Off Line	11:00 - 12:00
14/10/21	III-H	2085 Class oral test	ICT/TLM	Off Line	12:00 - 1:00
14/10/21	GE-III	Specific Heat relation	TLM	Off Line	1:00 - 2:00
15/10/21	GE-III	GE-3 Practical	TLM	Off Line	1:00 - 3:00
17/10/21	III-H	Class Discussion	ICT/TLM	Off Line	9:00 - 10:00
17/10/21	I-H	CE- Practical	TLM	Off Line	10:00 - 11:00
17/10/21	V-H	Astronomy Seminar		Off Line	1:00 - 2:00

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remarks
6/9/22	II-(H)	Separation of Variable Method	ICT	off line	10:00 - 11:00
6/09/22	I-(H)	ca - lab		off line	12:00 - 2:00
6/09/22	V-(H)	ISE-2 Proper Motion		off line	2:00 - 2:50
8/9/22	III (H)	Equation of Vibrating String	ICT	off line	9:00 - 10:00
8/9/22	III	Galilean Transformation		off line	10:00 - 11:00
8/9/22	I-(H)	Variable mass system	ICT	off line	12:00 - 1:00
8/9/22	V-(H)	Stellar Radii and Mass	ICT	off line	1:00 - 2:00
9/9/22	HS-2 nd yr	Self Inductance		off line	10:00 - 11:00
9/9/22	III-(H)	Diffusion Equation	ICT	off line	11:00 - 12:00
9/9/22	GE-3	Thermodynamic Potentials		off line	1:00 - 2:00
12/9/22	III-(H)	Class Test		off line	9:00 - 10:00
12/9/22	D-(H)	Practical		off line	10:00 - 11:00
12/9/22	V-(H)	Stellar Temperature	ICT	off line	11:00 - 12:00
18/9/22	III-(H)	Vibrating Membrane	ICT	off line	10:00 - 11:00

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online
1/8/23	VI-H	Optical Microscopy, SEM	ICT	off line
1/8/23	GE-II	GE-II practical		off line
2/8/23	IV-H	Mathematical Practical	ICT	off line
2/8/23	IV-H	Non-existence of electron inside the Nucleus.		off line
2/2/23	IV-H	Counselling for higher studies in physics		off line
2/8/23	GE-II	GE-II Practical		off line
3/8/23	VI-H	Transmission Electron Microscopy	ICT	off line
3/8/23	GE-II	Introduction to Magnetism		off line
3/8/23	D-H	Theory of interference	TLM	off line
4/8/23	GE-II	Laplace's Theorem or Biot-Savart law	TLM	off line
4/8/23	VI-H	NO STUDENT PRESENT		
6/3/23	VI-H	Scanning Tunneling Microscopy		off line
8/3/23	GE-H	Huygen's - Principle, Coherent Sources	GLM	off line
8/3/23	VI-H	Introduction to Optical properties of nanomaterials		off line

Date	Class	Brief Description	Use of TLM/ICT	Mode Offline/online	Remark
18/3/22	GE-4	Interference, Theory of interference	TLM	off line	
20/3/23	VI-H	Optical properties in Nanostructures	TLM	off line	
20/3/23	GE-IV	Practical		off line	
22/3/23	VI-H	Result Discussion & Analysis		off line	
22/3/23	II-H	Thin film : optical, interference	TLM/ICT	off line	
22/3/23		Parent Teacher Meet		off line	
23/3/23	VI-H	Doubt clearing session		off line	
23/3/23	GE-II	Practical		off line	
23/3/22	II-H	thin film : transmitted rays.	ICT/TLM	off line	
23/3/22		ARAR Preparation			
24/3/23	VI-H	Quantitative treatment of Quasi-particle	TLM/ICT	off line	
24/3/22		ARAR Preparation			
25/3/23	GE-II	Magnetic field intensity at a circular current carrying conductor	TLM	off line	

Classroom > 6th Sem 2023
Nanomaterials and Application

Home
Calendar
Teaching
To review
SEC-I: Electrical Circuits a...
FYUGP
6th Sem 2023
Nanomaterials and Application
6th Sem (H) 2021-22
Nuclear Physics
3rd Sem CBCS
4th Sem (H) 2023
Elements of Modern Physics
2nd Sem (H) CBCS 2021-22
Waves and Optics
1st Semester 2021-22(H)
5th Semester CBCS

Stream Classwork People Grades

- J. Sonowal posted a new material: Question Papers
Feb 2
- J. Sonowal posted a new material: SLM for Nuclear Physics
Feb 2
- J. Sonowal posted a new material: Nanomaterials and Applications Q. Paper 2022
Feb 2
- J. Sonowal posted a new material: Model Question Set
Jun 15, 2022
- J. Sonowal posted a new material: Important Books
Apr 8, 2022

Calendar

Stream **Classwork** People Grades



- Teaching
- To review
- SEC-I: Electrical Circuits a...
FYUGP
- 6th Sem 2023
Nanomaterials and Application
- 6th Sem (H) 2021-22
Nuclear Physics
- 3rd Sem CBCS
- 4th Sem (H) 2023**
Elements of Modern Physics
- 2nd Sem (H) CBCS 2021-22
Waves and Optics
- 1st Semester 2021-22(H)

+ Create

All topics

- Scilab Book Posted Feb 16
- Question Paper Posted Feb 2
- Scilab Program Posted Jul 9, 2022
- SLM_Op-Amp Edited May 27, 2022
- SLM Posted May 5, 2022



