

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st Semester) PHYSICS

Name of the Paper:-Mechanics (Major)

Class:B.Sc. Physical Science

Name of the Teachers (Section Wise) :

Dr Chetna Narula

WEEK	DATE	
1	August (1-3)	Introduction to Mechanics, Translational motion, Basics of Rotational Motion and Examples
		Comparison in translation and Rotational motion and their relevant parameters, Rigid body, Moment of Inertia
		Radius of Gyration, Theorems of perpendicular and parallel axis (with proof)
SUNDAY - 04.08.2024		
2	August (5-10)	07.08.2024 - TEEJ
		Moment of Inertia of ring, Disc, Angular Disc
		MOI of Solid cylinder, Solid sphere, Hollow sphere, MOI of Rectangular plate, Square plate, Solid cone, Triangular plate
SUNDAY - 11.08.2024		
3	August (12-17)	15.08.2024 - INDEPENDENCE DAY
		Torque, Rotational Kinetic Energy, Angular momentum, Law of conservation of angular momentum
		Rolling motion, condition for pure rolling, acceleration of body rolling down an inclined plane
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Fly wheel, Moment of Inertia of an irregular body, Numericals and Doubts of Unit I (Mechanics)
		Unit-II Elasticity, Intoduction, Need of the study, Deforming Force
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Elastic limit, stress, strain and their types, Hooke's law
		Modulus of rigidity, Relation between shear angle and angle of twist, elastic energy stored/volume in an elastic body
	Elongation produced in heavy rod due to its own weight and elastic potential energy stored in it,	
SUNDAY - 01.09.2024		

6	September (2-7)	
		Tension in rotating rod, Poisson's ratio and its limiting value, Elastic Constants and their relations
		Torque required for twisting cylinder, Hollow shaft is stiffer than solid one.
		Bending of beam, bending moment and its magnitude, Flexural rigidity,
SUNDAY - 08.09.2024		
7	September (9-14)	
		Geometrical moment of inertia for beam of rectangular cross-section and circular cross-section,
		Bending of cantilever (loaded by a weight W at its free end), weight of cantilever uniformly distributed over its entire length.
		Dispersion of a centrally loaded beam supported at its ends
SUNDAY - 15.09.2024		
8	September (16-21)	
		Determination of elastic constants for material of wire by Searle's method.
		Numericals and Doubts of Unit II (Mechanics)
		Revision Test of Unit-1 and Unit-2
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		Unit-III Special Theory of Relativity- Introduction Michelson's Morley experiment and its outcomes
		Postulates of special theory of relativity, Lorentz Transformations
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Simultaneity and order of events, Lorentz contraction
		Time dilation, Relativistic transformation of velocity
SUNDAY - 06.10.2024		

11	October (7-11)	
		Relativistic addition of velocities, variation of mass-energy equivalence
		Relativistic Doppler effect, relativistic kinematics
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Transformation of energy and momentum and force Problems of relativistic dynamics.
SUNDAY - 20.10.2024		
13	October (21-26)	
		Doubts/revision Unit-IV Gravitation and Central force Motion-Introduction Law of gravitation, Potential and field due to spherical shell and solid sphere
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		Motion of a particle under central force field, Two body problem Two body problem continued and its reduction to one body problem and its solution Compound pendulum or physical pendulum in form of elliptical lamina and expression of time period, Determination of g by means of bar pendulum
SUNDAY - 10.11.2024		
15	November (11-16)	
		Normal coordinates and normal modes, Normal modes of vibration for given spring mass system 15.11.2024 - GURU NANAK DEV JAYANTI Possible angular frequencies of oscillation of two identical simple pendulums of length (l)
SUNDAY - 17.11.2024		
16	November (18-22)	
		Possible angular frequencies of oscillation of small bob of mass (m_0) joined together with spring of spring constant (k). Doubts and Problems
23.11.2024 - Examinations		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (I - Semester)

Name of the Paper:- Chemistry

Class: B.Sc. (I)

Name of the Teachers (Section Wise) : Dr. Vikram

WEEK	DATE	TOPICS
1	August (1-3)	Atomic Structure Dual behaviour of matter and radiation, de Broglie's relation
SUNDAY - 04.08.2024		
2	August (5-10)	Heisenberg's uncertainty principle, concept of atomic orbitals significance of quantum numbers
		07.08.2024 - TEEJ
SUNDAY - 11.08.2024		
3	August (12-17)	radial and angular wave functions normal and orthogonal wave functions significance of Ψ and Ψ^2
		15.08.2024 - INDEPENDENCE DAY
		shapes of s, p, d, f orbitals
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Rules for filling electrons in various orbitals effective nuclear charge Slater's rules.
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Periodic table and atomic properties, Classification of periodic table definition of atomic and ionic radii, ionisation energy electron affinity and electronegativity trend in periodic table (in s and p-block elements)
SUNDAY - 01.09.2024		
6	September (2-7)	Pauling, Mulliken, Allred Rachow and Mulliken Jaffe's electronegativity scale, anderson's electron density ratio
SUNDAY - 08.09.2024		
7	September (9-14)	Gaseous State Kinetic theory of gases, Maxwell's distribution of velocities and energies (derivation excluded) Calculation of root mean square velocity, average velocity, and most probable velocity.
		Collision diameter, collision number, collision frequency and mean free path (Derivations excluded),

SUNDAY - 15.09.2024		
8	September (16-21)	Deviation of Real gases from ideal behaviour,
		Derivation of Van der Waal' s Equation of State,
		its application in the calculation of Boyle' s temperature (compression factor)
		Structure and Bonding Localized and delocalized chemical bond,
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	Van der Waals interactions.
		Concept of resonance and its applications,
		hyperconjugation, inductive effect, Electromeric effect and their comparison. Mechanism of Organic Reactions Curved arrow notation, homolytic and heterolytic bond fission.
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	Types of reagents: electrophiles and nucleophiles.
		Types of organic reactions: Substitution, Addition, Condensation, Elimination, Rearrangement, Isomerization and Pericyclic reactions.
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
SUNDAY - 06.10.2024		
11	October (7-11)	Reactive intermediates: Carbocations, carbanions, free radicals, carbenes (structure & stability).
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	Liquid State Structure of liquids,
		Properties of liquids – surface tension, refractive index, viscosity, vapour pressure and optical rotation.
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
SUNDAY - 20.10.2024		
13	October (21-26)	Solid State Classification of solids,
		Law of constancy of interfacial angles,
		law of rational indices, Miller indices,
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	elementary ideas of symmetry and symmetry elements,
		seven crystal systems and
		fourteen Bravais lattices;

SUNDAY - 10.11.2024		
15	November (11-16)	X-ray diffraction, .
		Bragg's law, a simple account of Laue method, rotating crystal method and powder pattern method
		15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024		
16	November (18-22)	
		Revision
23.11.2024 - Examinations		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st - Semester)

Name of the Paper:- Diversity of microbes,algae,fungi and archegoniates Class: Class:B.Sc 1st

Name of the Teachers (Section Wise) : Ms.Khushi

WEEK	DATE	TOPICS
1	August (1-3)	
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		Bacteria structure and Reproduction
		Bacteria structure and Reproduction
	Introduction to algae	
SUNDAY - 11.08.2024		
3	August (12-17)	
		15.08.2024 - INDEPENDENCE DAY
		<i>Volvox</i> structure and Reproduction
		<i>Vaucheria</i> structure and Reproduction
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		<i>Ectocarpus</i> structure and Reproduction
		<i>Polysiphonia</i> structure and Reproduction
	Introduction to virus	
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Introduction to fungi
		Introduction to fungi
SUNDAY - 01.09.2024		
6	September (2-7)	
		<i>Phytophthora</i> structure and Reproduction
		<i>Penicillium</i> structure and Reproduction
	<i>Colletotrichum</i> structure and reproduction	
SUNDAY - 08.09.2024		

7	September (9-14)	
		<i>Puccinia</i> structure and Reproduction
		<i>Puccinia</i> structure and Reproduction
		Assignment and Test
SUNDAY - 15.09.2024		
8	September (16-21)	
		Lichens Structure And Reproduction
		Discussion on General characters of Bryophyta
		Bryophyta- Classification (upto classes)
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		<i>Marchantia</i> - structure and reproduction
		<i>Anthoceros</i> - structure and reproduction
		<i>Funaria</i> -structure and reproduction
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Pteridophyta- General characters.
		<i>Rhynia</i> - alternation of generations, structure and reproduction.
SUNDAY - 06.10.2024		
11	October (7-11)	
		<i>Selaginella</i> - structure and reproduction, alternation of generations
		<i>Selaginella</i> - structure and reproduction, alternation of generations
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		<i>Equisetum</i> - structure and reproduction, alternation of generations
		<i>Pteris</i> -structure and reproduction, alternation of generations
SUNDAY - 20.10.2024		

13	October (21-26)	
		Gymnosperms- General characters.
		Gymnosperms- Classification
Structure and reproduction of <i>cycas</i>		
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November 9)	(4-
		Structure and reproduction of <i>pinus</i>
		Structure and reproduction of <i>Ephedra</i>
Paleobotany		
SUNDAY - 10.11.2024		
15	November (11-16)	
		Paleobotany
		15.11.2024 - GURU NANAK DEV JAYANTI
Geological time scale		
SUNDAY - 17.11.2024		
16	November (18-22)	
		Geological time scale
		Economic importance of Gymnosperms
23.11.2024 - Examinations		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester)

1st Sem

Name of the Paper:- Introduction To Biotechnology

Name of the Teachers (Section Wise) :

Ms.Anjushree

WEEK	DATE	TOPICS
1	August (1-3)	
SUNDAY - 04.08.2024		
2	August (5-10)	Definition and scope of Biotechnology
		Definition and scope of Biotechnology
		07.08.2024 - TEEJ
SUNDAY - 11.08.2024		
3	August (12-17)	Definition and scope of Biotechnology
		Definition and scope of Biotechnology
		Biotechnology research in India
		15.08.2024 - INDEPENDENCE DAY
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Biotechnology in context of Developing world
		Biotechnology in context of Developing world
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Safety guidelines
		Safety guidelines
		Ethics in Biotechnology
SUNDAY - 01.09.2024		
6	September (2-7)	Intellectual Property rights
		Intellectual Property rights
		Fermentation Technology
SUNDAY - 08.09.2024		
7	September (9-14)	Fermentation Technology
		Fermentation Technology
		Animal tissue Culture
SUNDAY - 15.09.2024		

8	September (16-21)	Animal tissue Culture
		Animal tissue Culture
		Plant tissue Culture
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	Plant tissue Culture
		Plant tissue Culture
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	Immunotechnology:Immune System (Brief)
		Immunotechnology:Immune System (Brief)
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
SUNDAY - 06.10.2024		
11	October (7-11)	IVF & Embryo transfer technology
		Monoclonal antibodies
		Introduction of Genetic Engineering
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	Introduction to gene& genomes
		Proteins and proteome
		DNA Fingerprinting and Forensic Analysis
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
SUNDAY - 20.10.2024		
13	October (21-26)	Genetic manipulations
		Genetic manipulations
		Enzymes concept :Immobilized enzymes
DIWALI BREAK - 27.10.2024 - 03.11.2024		

14	November 9)	(4-	Enymes concept :Immobilized enzymes
			Bioremediation
			Bioremediation
SUNDAY - 10.11.2024			
15	November (11-16)		Assignments
			Bioremediation
			Bioremediation
			15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024			
16	November (18-22)		Application of biotechnology
			Application of biotechnology
			Test
23.11.2024 - Examinations			

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st - Semester)

Name of the Paper:- Animal Diversity of Non-chordates

Class: B.Sc. Ist

Name of the Teachers (Section Wise) : Mrs.Neelam Thareja

WEEK	DATE	TOPICS
1	August (1-3)	Protozoa: General Characters and Classification
		Protozoa: Type Study of Plasmodium
		Protozoa: Type Study of Plasmodium
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		Porifera: General Characters and classification
		Porifera: Type Study-Sycon
SUNDAY - 11.08.2024		
3	August (12-17)	
		15.08.2024 - INDEPENDENCE DAY
		Porifera: Type Study-Sycon
		Coelentrata: General Characters and classification
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Coelentrata:Type Study of <i>Obelia</i>
		Coelentrata:Type Study of <i>Obelia</i>
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Platyhelminthes: Classification
		Platyhelminthes: Type study of liver fluke
SUNDAY - 01.09.2024		
6	September (2-7)	
		Platyhelminthes: Type study of liver fluke
		Platyhelminthes: Type study of liver fluke
		Aschelminthes: General Characters classification
SUNDAY - 08.09.2024		
7	September (9-14)	
		Aschelminthes: General Characters classification
		Annelida: General Characters and classification
		Earthworm - Type study
SUNDAY - 15.09.2024		

8	September (16-21)	
		Earthworm - Type study
		Earthworm - Type study
Arthropoda:General Characters		
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		Arthropoda: Classification
		Arthropoda : Type Study of cockroach
Arthropoda : Type Study of cockroach		
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5))	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Arthropoda : Type Study of cockroach
		Arthropoda : Type Study of cockroach
SUNDAY - 06.10.2024		
11	October (7-11)	
		Mollusca: General Characters
		Mollusca: Classification
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		

12	October (14-19)	
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Mollusca: Type Study <i>Pila</i>
		Mollusca: Type Study <i>Pila</i>
SUNDAY - 20.10.2024		
13	October (21-26)	
		Mollusca: Type Study <i>Pila</i>
		Mollusca: Type Study <i>Pila</i>
		Echinodermata: General characters and Classification
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		Echinodermata: Type Study of star fish
		Echinodermata: Type Study of star fish
		Echinodermata: Type Study of star fish
SUNDAY - 10.11.2024		
15	November (11-16)	
		Hemichordata: General Characters
		15.11.2024 - GURU NANAK DEV JAYANTI
		Test and Assignment
SUNDAY - 17.11.2024		
16	November (18-22)	
		Examples of Hemichordata type study <i>Balanoglossus</i>
23.11.2024 - Examinations		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st - Semester)

Name of the Paper:- Calculus

Class: B.Sc. Ist

Name of the Teachers (Section Wise) : Dr. Arpana Garg

WEEK	DATE	TOPICS
1	August (1-3)	Limits
		Continuity
		Differentiation
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		Examples of limits continuity
		Indeterminate form
		Indeterminate Form ($0 * \infty, \infty - \infty$)
SUNDAY - 11.08.2024		
3	August (12-17)	
		15.08.2024 - INDEPENDENCE DAY
		Indeterminate form ($1^\infty, \infty^0, 0^0$ etc)
		Problems of Indeterminate form
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Successive Differentiation in cartesian form
		Successive Differentiation in cartesian form
		Successive Differentiation in cartesian form
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Parametric Form
		Standard results of Successive Differentiation
		Questions
SUNDAY - 01.09.2024		

6	September (2-7)	
		Questions using Partial Fraction
		More examples of Successive Differentiation
		Leibnitz's Theorem
SUNDAY - 08.09.2024		
7	September (9-14)	
		Questions Based on Leibnitz's Theorem
		Taylor's Theorem
		Questions Based on Taylor's Theorem
SUNDAY - 15.09.2024		
8	September (16-21)	
		Question Based on Maclaurin's Theorem
		Another Form of Taylor's Series
		Asymptotes
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		Oblique Asymptotes
		Asymptotes of polar curves
		Curvature
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		curvature in cartesian form
		curvature in intrinsic forms
SUNDAY - 06.10.2024		

11	October (7-11)	
		Singular Points
		Tracing of curves
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Tracing of curves
		Reduction Formula
SUNDAY - 20.10.2024		
13	October (21-26)	
		Reduction Formula
		Rectification
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		Rectification
		Quadrature
SUNDAY - 10.11.2024		
15	November (11-16)	
		Area bounded by closed curve
		15.11.2024 - GURU NANAK DEV JAYANTI
		volume and Surface of solid of revolution
SUNDAY - 17.11.2024		
16	November (18-22)	
		Revision
		Revision
23.11.2024 - Examinations		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st - Semester)

Name of the Paper:- Fundamental of Computer Class: B.Sc. I

Name of the Teachers (Section Wise) : Ms.Pooja Sharma

WEEK	DATE	TOPICS
1	August (1-3)	Computer Fundamentals: Evolution of Computers through generations
		Characteristics of Computers,
		Strengths and Limitations of Computers, Classification of Computers
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		Strengths and Limitations of Computers,
		Classification of Computers
		Functional Components of a Computer System,
SUNDAY - 11.08.2024		
3	August (12-17)	
		15.08.2024 - INDEPENDENCE DAY
		Applications of computers in Various Fields.
		Types of Software: System software, Application software, Utility Software.
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Memory Systems: Concept of bit, byte, word, nibble, storage locations and addresses, measuring units of storage capacity, access time, concept of memory hierarchy.
		Memory Systems: Concept of bit, byte, word, nibble, storage locations and addresses, measuring units of storage capacity, access time, concept of memory hierarchy.
		Primary Memory - RAM, ROM, PROM, EPROM.
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Secondary Memory - Types of storage devices, Magnetic Tape, Hard Disk, Optical Disk, Flash Memory.
		Secondary Memory - Types of storage devices, Magnetic Tape, Hard Disk, Optical Disk, Flash Memory.
		I/O Devices: I/O Ports of a Desk Top Computer, Device Controller, Device Driver
SUNDAY - 01.09.2024		

6	September 7)	(2-	Input Devices: classification and use, keyboard, pointing devices - mouse, touch pad and track ball, joystick, magnetic stripes, scanner, digital camera, and microphone
			Output Devices: speaker, monitor, printers: classification, laser, ink jet, dot-matrix. Plotter.
			07.09.2024 - GANESH CHATURTHI
			SUNDAY - 08.09.2024
7	September 14)	(9-	Introduction to Operating System: Definition, Functions, Features of Operating System, Icon, Folder, File, Start Button, Task Bar,
			Introduction to Operating System: Definition, Functions, Features of Operating System, Icon, Folder, File, Start Button, Task Bar,
			Status Buttons, Folders, Shortcuts, Recycle Bin, Desktop, My Computer, My Documents, Windows Explorer, Control Panel.
			SUNDAY - 15.09.2024
8	September 21)	(16-	Status Buttons, Folders, Shortcuts, Recycle Bin, Desktop, My Computer, My Documents, Windows Explorer, Control Panel.
			ASSIGNMENT 1
			The Internet: Introduction to networks and internet, history, Internet, Working of the Internet, Modes of Connecting to Internet.
			SUNDAY - 22.09.2024
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY			
9	September 28)	(24-	The Internet: Introduction to networks and internet, history, Internet, Working of the Internet, Modes of Connecting to Internet.
			Electronic Mail: Introduction, advantages and disadvantages, User Ids, Passwords, e-mail addresses,
			message components, message composition, mailer features. Browsers and search engines
			SUNDAY - 29.09.2024
10	September (30) October (1, 4-5))		02.10.2024 - MAHATMA GANDHI JAYANTI
			03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
			Threats: Physical & non-physical threats, Virus
			Worm, Trojan, Spyware, Keyloggers,
SUNDAY - 06.10.2024			
11	October (7-11)		Rootkits, Adware, Cookies, Phishing, Hacking, Cracking
			Computer Security Fundamentals:
			Confidentiality, Integrity, Authentication,
			HOLIDAY 12.10.2024 - (DUSSEHRA)
SUNDAY - 13.10.2024			

12	October (14-19)	
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Non-Repudiation, Security Mechanisms Security Awareness,
SUNDAY - 20.10.2024		
13	October (21-26)	
		Security Policy Security Policy anti-virus software & Firewalls,
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		07.11.2024 - CHHAT PUJA
		ASSIGNMENT 2 Security Policy
SUNDAY - 10.11.2024		
15	November (11-16)	
		Security Policy 15.11.2024 - GURU NANAK DEV JAYANTI
		TEST
SUNDAY - 17.11.2024		
16	November (18-22)	
		REVISION REVISION REVISION
23.11.2024 - Examinations		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st - Semester)

Name of the Paper:-

Programming in 'C'

Class:B.Sc.

Name of the Teachers (Section Wise) : Ms.Milan Sharma

WEEK	DATE	TOPICS
1	August (1-3)	
SUNDAY - 04.08.2024		
2	August (5-10)	Overview of C: History, Importance
		Structure of C Program, Character Set,
		07.08.2024 - TEEJ
SUNDAY - 11.08.2024		
3	August (12-17)	Constants and Variables
		Identifiers and Keywords, Data Types
		Assignment Statement, Symbolic Constant.
		15.08.2024 - INDEPENDENCE DAY
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Input/output: Formatted I/O Function-, Input Functions viz. scanf(). getch(), getche(), getchar(), gets().
		Input/output: Formatted I/O Function-, Input Functions viz. scanf(). getch(), getche(), getchar(), gets().
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		output functions viz. printf(), putchar(), puts().
		output functions viz. printf(), putchar(), puts().
SUNDAY - 01.09.2024		

6	September 7)	(2-	output functions viz. printf(), putchar(), puts().
			Operators Arithmetic, Relational, Logical, Bitwise, Unary, Assignment, Conditional Operators and Special Operators Expression
			07.09.2024 - GANESH CHATURTHI
SUNDAY - 08.09.2024			
7	September 14)	(9-	Group Discussion
			Operator Hierarchy, Evaluation of Arithmetic Expression, HTML Document Features;HTML Tags; Header, Title, Body, Paragraph,
SUNDAY - 15.09.2024			
8	September (16-21)		Type Casting and Conversion
			ASSIGNMENT 1
			Decision making with if statement, if- else statement
SUNDAY - 22.09.2024			
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY			
9	September (24-28)		nested if statement, else-if ladder,
			Looping Statements: for, while, and do- while loop
SUNDAY - 29.09.2024			
10	September (30) October (1, 4-5)		Programming of loops, jumps in loops.
			Arrays: One Dimensional arrays Declaration, Initialization
			02.10.2024 - MAHATMA GANDHI JAYANTI
			03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
SUNDAY - 06.10.2024			

11	October (7-11)	Memory representation; Two Dimensional arrays Declaration, Initialization and Memory representation
		Functions: definition, prototype
		TEST
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	passing arguments to a function: call by value; call by reference
		recursive functions
		Strings: Declaration and Initialization, String I/O, Array of Strings
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
SUNDAY - 20.10.2024		
13	October (21-26)	String Manipulation Functions: String Length, Copy, Compare, Concatenate etc., Search for a Substring.
		Concatenate etc., Search for a Substring.
		Pointers in C: Declaring and initializing pointers
		ASSIGNMENT 2
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	accessing address and value of variables using pointers; Pointers and Arrays
		User defined data types: Structures Definition, Advantages of - Structure
		declaring structure variables, accessing structure members
		07.11.2024 - CHHAT PUJA
SUNDAY - 10.11.2024		
15	November (11-16)	Structure members initialization, Array of Structures
		Unions - Union definition
		difference between Structure and Union
		15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024		
16	November (18-22)	REVISION
		REVISION
		REVISION
23.11.2024 - Examinations		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st Semester)

Name of the Paper:- AEC Hindi,Part 1, SEM 1 (हिंदी भाषा और व्याकरण) Class: B.Sc. Ist Year

Name of the Teachers (Section Wise) : Dr.Jogesh, Dr. Nirmala, Dr. Pooja

WEEK	DATE	TOPICS
1	August (1-3)	
SUNDAY - 04.08.2024		
2	August (5-10)	विषय क्रम चर्चा इकाई 1- हिंदी के विविध रूप : राष्ट्रभाषा व राजभाषा 07.08.2024 - TEEJ
SUNDAY - 11.08.2024		
3	August (12-17)	संपर्क भाषा स्वतंत्रता दिवस पर निबंध लेखन प्रतियोगिता का आयोजन 15.08.2024 - INDEPENDENCE DAY
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN हिंदी भाषा और भारतीय संविधान
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI हिंदी की बोलियाँ
SUNDAY - 01.09.2024		
6	September (2-7)	हिंदी भाषा और भारतीय संविधान की लिखित परीक्षा इकाई 2- व्याकरण का स्वरूप और महत्व
SUNDAY - 08.09.2024		
7	September (9-14)	देवनागरी लिपि का मानकीकरण हिंदी दिवस के उपलक्ष्य में भाषण प्रतियोगिता का आयोजन
SUNDAY - 15.09.2024		
8	September (16-21)	हिंदी की वर्णव्यवस्था: स्वर और व्यंजन देवनागरी लिपि के मानकीकरण की प्रथम असाइनमेंट
SUNDAY - 22.09.2024		

HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	इकाई 3 हिंदी भाषा शब्द भंडार: तत्सम व तद्भव शब्द
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	देशज व विदेशी शब्द निर्माण
		उपसर्ग एवं प्रत्यय
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
SUNDAY - 06.10.2024		
11	October (7-11)	पर्यायवाची एवं विलोम शब्द
		हिंदी की बालियों की लिखित परीक्षा
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	संज्ञा व सर्वनाम
		काव्य पाठ प्रतियोगिता का आयोजन
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
SUNDAY - 20.10.2024		
13	October (21-26)	विशेषण एवं क्रिया
		इकाई 4- मुहावरे व लोकोक्तियाँ
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	हिंदी वाक्य रचना
		वाक्य रचना एवं भेद
SUNDAY - 10.11.2024		
15	November (11-16)	शब्द शुद्धि व वाक्य शुद्धि
		हिंदी वाक्य रचना एवं उसके भेद की द्वितीय असाइनमेंट
		15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024		
16	November (18-22)	पारिभाषिक शब्दावली
		चारों इकाइयों के वस्तुनिष्ठ प्रश्न
23.11.2024 - Examinations		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st Semester)

of the Paper:- Physics Fundamentals (MDC Physics) Class: I Year

Name of the Teachers (Section Wise) : Dr.Chetna Narula

WEEK	DATE	TOPICS
1	August (1-3)	Unit-1:Physics-Nature, scope & excitement, Major discoveries in physics, major contribution by Indian Physicists
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		Fundamental physical constants, Physics in relation to other sciences
SUNDAY - 11.08.2024		
3	August (12-17)	
		impact of physics on society and on latest development in science & technology
		15.08.2024 - INDEPENDENCE DAY
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		System of Measuring Units-Need for measurement, measuring process
		concept of mass, length, time; Fundamental and derive units, system of units
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		concepts of error, types of error (only definition), Accuracy and precision in measurement
		least count and applications of measuring instruments -Vernier caliper, Screw Gauge
SUNDAY - 01.09.2024		

6	September (2-7)	
		Unit-2: Motion of objects in one dimension- position of the object, origin/reference point, frame of reference
		definitions and examples of motion in one, two and three dimension. Scalar and Vector quantities,
SUNDAY - 08.09.2024		
7	September (9-14)	
		description of motion along a straight line- distance and displacement, uniform motion and non-uniform motion
		average and instantaneous speed, average and instantaneous velocity, acceleration
SUNDAY - 15.09.2024		
8	September (16-21)	
		graphical analysis of straight line motion- distance- time graph, velocity-time graph
		equation of motions
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		Applications on equation of motions
		Unit-3: Causes of motion- concept of force, Newton's 1st law of motion
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5))	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
SUNDAY - 06.10.2024		

11	October (7-11)	
		Inertia and mass; Newton's 2nd law of motion, momentum and force
		3rd law of motion, daily life applications of Newton's laws of motion
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	
		Universal law of gravitation and its importance, acceleration due to gravity and free fall of a body
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
SUNDAY - 20.10.2024		
13	October (21-26)	
		Mass and weight of an object on earth and moon, concept of thrust and pressure and importance in daily life
		Buoyancy and Archimedes principle-the physics behind floating of objects on water
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (9)	(4-
		Work, energy, types of energy-Kinetic energy and Potential energy
		P.E. of an object at a height; law of conservation of energy and its applications
SUNDAY - 10.11.2024		
15	November (11-16)	
		Conservation of linear and angular momentum, collision (elastic and inelastic)
		conservation laws in collisions- importance in daily life; concepts of center of mass
		15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024		
16	November (18-22)	
		-Physics behind cycling, rock climbing and skating
		Revision
23.11.2024 - Examinations		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st - Semester)

Name of the Paper:- MDC - Biology- I

Class: B.Sc. Ist Year

Name of the Teachers (Section Wise) : Anjushree

WEEK	DATE	TOPICS
1	August (1-3)	
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		Cell:Structure and Function
		Cell:Structure and Function
		Cell:Structure and Function
SUNDAY - 11.08.2024		
3	August (12-17)	
		The Living World Biodiversity
		15.08.2024 - INDEPENDENCE DAY
		The Living World Biodiversity
		The Living World Biodiversity
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		The Living World BiodiversityBionomial Nomenclature
		The Living World BiodiversityBionomial Nomenclature
		The Living World BiodiversityBionomial Nomenclature
		Practical
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		The Living World Biodiversity
		The Living World Biodiversity
		The Living World Biodiversity
SUNDAY - 01.09.2024		

6	September (2-7)	
		The Living World Biodiversity Bionomial Nomenclature
		The Living World Biodiversity Bionomial Nomenclature
		Plant Kingdom: Classification of Plants
SUNDAY - 08.09.2024		
7	September (9-14)	
		Plant Kingdom: Classification of Plants
		Plant Kingdom: Algae, Bryophyta, Pteridophyta
		Plant Kingdom: Algae, Bryophyta, Pteridophyta
SUNDAY - 15.09.2024		
8	September (16-21)	
		Plant Kingdom: Algae, Bryophyta, Pteridophyta
		Plant Kingdom: Gymnosperms and Angiosperms
		Plant Kingdom: Gymnosperms and Angiosperms
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		Animal Kingdom: Classification of Animals
		Animal Kingdom: Classification of Animals
		Animal Kingdom: Phylum Porifera, Coelentrata, Ctenophora
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
SUNDAY - 06.10.2024		
11	October (7-11)	
		Animal Kingdom: Phylum Porifera, Coelentrata, Ctenophora
		Animal Kingdom: Phylum Porifera, Coelentrata, Ctenophora
		Animal Kingdom: Phylum Porifera, Coelentrata, Ctenophora
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		

12	October (14-19)	
		Animal Kingdom:Phylum Platyhelminthes,Aschleminthes,Annelida
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Animal Kingdom:Phylum Platyhelminthes,Aschleminthes,Annelida
		Animal Kingdom:Phylum Platyhelminthes,Aschleminthes,Annelida
SUNDAY - 20.10.2024		
13	October (21-26)	
		Animal Kingdom:Phylum Platyhelminthes,Aschleminthes,Annelida
		Animal Kingdom:Phylum Arthropoda,Mollusca,Echinodermata,hemichordata,Cho rdata
		Animal Kingdom:Phylum Arthropoda,Mollusca,Echinodermata,hemichordata,Cho rdata
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		Animal Kingdom:Phylum Arthropoda,Mollusca,Echinodermata,hemichordata,Cho rdata
		Animal Kingdom:Phylum Arthropoda,Mollusca,Echinodermata,hemichordata,Cho rdata
		Animal Kingdom:Phylum Arthropoda,Mollusca,Echinodermata,hemichordata,Cho rdata
SUNDAY - 10.11.2024		
15	November (11-16)	
		Animal Kingdom:Phylum Arthropoda,Mollusca,Echinodermata,hemichordata,Cho rdata
		Animal Kingdom:Phylum Arthropoda,Mollusca,Echinodermata,hemichordata,Cho rdata
		15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024		
16	November (18-22)	
		Assignments
		Test
23.11.2024 - Examinations		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st Semester)

Ist

Name of the Paper:- MDC - Fundamental of computer

Class: Class: Com I Year

Name of the Teachers (Section Wis Ms.Milan Sharma

WEEK	DATE	TOPICS
1	August (1-3)	Computer Fundamentals: Evolution of Computers through generations
		Characteristics of Computers,
		Strengths and Limitations of Computers, Classification of Computers
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		Strengths and Limitations of Computers,
		Classification of Computers
SUNDAY - 11.08.2024		
3	August (12-17)	
		15.08.2024 - INDEPENDENCE DAY
		Applications of computers in Various Fields.
		Types of Software: System software, Application software, Utility Software.
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Memory Systems: Concept of bit, byte, word, nibble, storage locations and addresses, measuring units of storage capacity, access time, concept of memory hierarchy.
		Memory Systems: Concept of bit, byte, word, nibble, storage locations and addresses, measuring units of storage capacity, access time, concept of memory hierarchy.
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Secondary Memory - Types of storage devices, Magnetic Tape, Hard Disk, Optical Disk, Flash Memory.
		Secondary Memory - Types of storage devices, Magnetic Tape, Hard Disk, Optical Disk, Flash Memory.
SUNDAY - 01.09.2024		
		I/O Devices: I/O Ports of a Desk Top Computer, Device Controller, Device Driver

6	September (2-7)	
		Input Devices: classification and use, keyboard, pointing devices - mouse, touch pad and track ball, joystick, magnetic stripes, scanner, digital camera, and microphone
		Output Devices: speaker, monitor, printers: classification, laser, ink jet, dot-matrix. Plotter.
		07.09.2024 - GANESH CHATURTHI
SUNDAY - 08.09.2024		
7	September (9-14)	
		Introduction to Operating System: Definition, Functions, Features of Operating System, Icon, Folder, File, Start Button, Task Bar,
		Introduction to Operating System: Definition, Functions, Features of Operating System, Icon, Folder, File, Start Button, Task Bar,
		Status Buttons, Folders, Shortcuts, Recycle Bin, Desktop, My Computer, My Documents, Windows Explorer, Control Panel.
SUNDAY - 15.09.2024		
8	September (16-21)	
		Status Buttons, Folders, Shortcuts, Recycle Bin, Desktop, My Computer, My Documents, Windows Explorer, Control Panel.
		ASSIGNMENT 1
		The Internet: Introduction to networks and internet, history, Internet, Working of the Internet, Modes of Connecting to Internet.
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		The Internet: Introduction to networks and internet, history, Internet, Working of the Internet, Modes of Connecting to Internet.
		Electronic Mail: Introduction, advantages and disadvantages, User Ids, Passwords, e-mail addresses,
		message components, message composition, mailer features. Browsers and search engines
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Threats: Physical & non-physical threats, Virus Worm, Trojan, Spyware, Keyloggers,
SUNDAY - 06.10.2024		
11	October (7-11)	
		Rootkits, Adware, Cookies, Phishing, Hacking, Cracking Computer Security Fundamentals:
		Confidentiality, Integrity, Authentication,
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		

12	October (14-19)	
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Non-Repudiation, Security Mechanisms
		Security Awareness,
SUNDAY - 20.10.2024		
13	October (21-26)	
		Security Policy
		Security Policy anti-virus software & Firewalls,
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		07.11.2024 - CHHAT PUJA
		ASSIGNMENT 2 Security Policy
SUNDAY - 10.11.2024		
15	November (11-16)	
		Security Policy
		15.11.2024 - GURU NANAK DEV JAYANTI
		TEST
SUNDAY - 17.11.2024		
16	November (18-22)	
		REVISION
		REVISION
		REVISION
23.11.2024 - Examinations		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st - Semester)

Name of the Paper:- Introductory Mathematics Class: MDC MATHS Ist

Name of the Teachers (Section W Dr. Poonam Gupta

WEEK	DATE	TOPICS
1	August (1-3)	Sets and their representations
		Empty Sets, Finite and Infinite Sets
		Subsets and Power Sets
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		Union and Intersection of Sets
		Venn Diagram
		De- Morgan's Law and its applications
SUNDAY - 11.08.2024		
3	August (12-17)	
		Introduction to matrices
		15.08.2024 - INDEPENDENCE DAY
		Operations on Matrices
		Symmetric and Skew symmetric matrices
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Minor and Co-factors
		Determinant of square matrix
		Adjoint and Inverse of matrix
		Solutions of system of linear equations
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Complex Numbers
		Operations on complex numbers
		Modulus and argument of a complex number
		Examples
SUNDAY - 01.09.2024		

6	September (2-7)	
		Linear Inequalities
		Algebraic solutions of linear inequalities
		Examples
Graphical Representation		
SUNDAY - 08.09.2024		
7	September (9-14)	
		Quadratic equations
		Solutions of quadratic equations
		Examples
Arithmetic Progression		
SUNDAY - 15.09.2024		
8	September (16-21)	
		Arithmetic Progression Continued
		Arithmetic Progression Continued
		Examples
Examples		
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		Geometric Progression
		Geometric Progression Continued
		Examples
		A.M , G.M and H.M
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5))	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Relation between A.M ,G.M and H.M
		Examples
SUNDAY - 06.10.2024		

11	October (7-11)	
		Straight Lines
		Slope of a line and angle between two lines
		Examples
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	
		Different forms of equation of line
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Different forms of equation of line
		Different forms of equation of line
SUNDAY - 20.10.2024		
13	October (21-26)	
		Different forms of equation of line continued
		Examples
		Distance of a point from a straight line
		Examples
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		Standard form of a circle
		Examples
		Examples
		Properties of standard form of a circle
SUNDAY - 10.11.2024		
15	November (11-16)	
		Properties of standard form of a circle
		Examples
		15.11.2024 - GURU NANAK DEV JAYANTI
		Examples
SUNDAY - 17.11.2024		
16	November (18-22)	
		Revision
		Revision
		Revision
23.11.2024 - Examinations		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester)

Name of the Paper: LABORATORY TECHN Class: BSc 1st

Name of the Teachers (Section Wise) : Anjushree

WEEK	DATE	TOPICS
1	August (1-3)	
SUNDAY - 04.08.2024		
2	August (5-10)	LAB RULES AND SAFETY MEASURES
		07.08.2024 - TEEJ
SUNDAY - 11.08.2024		
3	August (12-17)	COMMONLY USED EQUIPMENTS FOR BIOTECHNOLOGICAL WORK
		15.08.2024 - INDEPENDENCE DAY
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
SUNDAY - 01.09.2024		

6	September (2-7)	QUALITATIVE AND QUANTITATIVE ESTIMATION OF VARIOUS BIOMOLECULES
SUNDAY - 08.09.2024		
7	September (9-14)	PREPARATION OF BUFFER, NORMAL , MOLAR , %SOL BUFFER SOL AND PH
SUNDAY - 15.09.2024		
8	September (16-21)	CHROMATOGRAPHY
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5))	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
SUNDAY - 06.10.2024		

11	October (7-11)	ELECTROPHORESIS
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	STERILISATION TECHNIQUE FOLLOWED IN LAB DRY AND WET TYPE , PREFFERED METHOD
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
SUNDAY - 20.10.2024		
13	October (21-26)	EVALUTION OF DIFFERENT DISINFECTANTS AND ANTISEPTICS AND THEIR USAGE
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	BIOLOGICAL INDICATORS
SUNDAY - 10.11.2024		
15	November (11-16)	MICRO ORGANISMS , PREP OF COTTON PLUGS
		15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024		
16	November (18-22)	PREPARATIONS OF DILUTIONS AND ISOLATION OF MICRO ORGANISMS FROM AIR, WATER AND SOIL
23.11.2024 - Examinations		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (I - Semester)

Name of the Paper:- Minor Chemistry -I

Class: B.Sc. I

Name of the Teachers (Section Wise) : Era Garg

WEEK	DATE	TOPICS
1	August (1-3)	
SUNDAY - 04.08.2024		
2	August (5-10)	Valence bond theory approach, shapes of simple inorganic molecules and ions based on valence shell electron pair repulsion (VSEPR) theory
		07.08.2024 - TEEJ
SUNDAY - 11.08.2024		
3	August (12-17)	Hybridization with suitable examples of linear, trigonal planar, square planar arrangements
		15.08.2024 - INDEPENDENCE DAY
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
SUNDAY - 01.09.2024		

6	September (2-7)	Hybridization with suitable examples of tetrahedral, trigonal bipyramidal and octahedral arrangements, Molecular orbital theory of homonuclear (N ₂ , O ₂) and heteronuclear (CO and NO) diatomic molecules
SUNDAY - 08.09.2024		
7	September (9-14)	dipole moment and percentage ionic character in covalent bond
SUNDAY - 15.09.2024		
8	September (16-21)	Concept of reaction rates, rate equation, factors influencing the rate of reaction
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	Order and molecularity of a reaction, integrated rate expression for zero
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
SUNDAY - 06.10.2024		

11	October (7-11)	integrated rate expression for first and second order reactions
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	Half-life period of a reaction, Alkanes, nomenclature, classification of carbon atoms in alkanes.
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
SUNDAY - 20.10.2024		
13	October (21-26)	Isomerism in alkanes, sources, methods of formation: Wurtz reaction, Kolbe reaction, Corey-House reaction and decarboxylation of carboxylic acids
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	physical properties. Mechanism of free radical halogenation of alkanes: reactivity and selectivity
SUNDAY - 10.11.2024		
15	November (11-16)	Metallic bond – Qualitative idea of valence bond and Band theories of metallic bond (conductors, semiconductors, insulators)
		15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024		
16	November (18-22)	Semiconductors – Introduction, types, and applications.
23.11.2024 - Examinations		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st Semester)

Name of the Paper:- Basics of Instrumentation Skills (SEC Physics) Class:I Year

Name of the Teachers (Section Wise) : Dr. Chetna Narula

WEEK	DATE	TOPICS
1	August (1-3)	
		Unit-1: Basic of Measurements: Instruments accuracy, precision, sensitivity, resolution range, etc.
		Errors in measurements and loading effects
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		Multimeter: Principles of measurement of dc voltage and dc current,
		ac voltage, ac current and resistance. Specifications of a multimeter and their significance
SUNDAY - 11.08.2024		
3	August (12-17)	
		15.08.2024 - INDEPENDENCE DAY
		Electronic Voltmeter: Advantage over conventional multimeter for voltage measurement with respect to input impedance and sensitivity
		Principle of voltage measurement (block diagram only). Specifications of an electronic Voltmeter and their significance
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		AC millivoltmeter: Types of AC millivoltmeters. Block diagram of ac millivoltmeter, specifications and their significance
		Revision of Unit-1
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Unit-2: Oscilloscope: Block diagram of basic CRO. CRT
		electrostatic focusing and acceleration (Explanation only no mathematical treatment)
SUNDAY - 01.09.2024		

6	September (2-7)	
		brief discussion on screen phosphor, visual persistence.
		Time base operation, synchronization
SUNDAY - 08.09.2024		
7	September (9-14)	
		Front panel controls. Specifications of CRO and their significance
		Use of CRO: for the measurement of voltage (dc and ac) and frequency and time period
SUNDAY - 15.09.2024		
8	September (16-21)	
		Special features of dual trace, introduction to digital oscilloscope, probes
		Digital storage Oscilloscope: principle of working
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		Revision of Unit-2
		Unit-3: Block diagram, explanation and specifications of low frequency signal generator
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Block diagram, explanation and specifications of low frequency pulse generator
		Brief idea for testing, specifications. Distortion factor meter, wave analysis.
SUNDAY - 06.10.2024		
11	October (7-11)	
		Block diagram of bridge. working principles of basic (balancing type) RLC bridge
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		

12	October (14-19)	
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Working principles of basic (balancing type) RLC bridge continued, Specifications of RLC bridge
		Block diagram and working principles of a Q- Meter
SUNDAY - 20.10.2024		
13	October (21-26)	
		Digital LCR bridges and Revision
		Unit-4: Comparison of analog & digital instruments. Characteristics of a digital meter
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		Working principle of digital voltmeter
		Block diagram and working of a digital multimeter
SUNDAY - 10.11.2024		
15	November (11-16)	
		15.11.2024 - GURU NANAK DEV JAYANTI
		Working principle of time interval, frequency and period measurement using universal counter/ frequency counter
SUNDAY - 17.11.2024		
16	November (18-22)	
		Time- base stability, accuracy and resolution. Revision
23.11.2024 - Examinations		