

# I.B. (PG) COLLEGE, PANIPAT

## LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG ( V - Semester)

Name of the Paper:- Plant Biotechnology Class: B.Sc. III Year

Name of the Teachers (Section Wise) : Dr. Harpreet Kaur

WEEK	DATE	TOPICS
1	August (1-3)	
<b>SUNDAY - 04.08.2024</b>		
2	August (5-10)	
		<b>07.08.2024 - TEEJ</b>
<b>SUNDAY - 11.08.2024</b>		
3	August (12-17)	Plant Tissue Culture: Introduction/Concept, History, Scope and Applications along with major achievements
		Plant Tissue Culture: Introduction/Concept, History, Scope and Applications along with major achievements
		<b>15.08.2024 - INDEPENDENCE DAY</b>
<b>SUNDAY - 18.08.2024</b>		
4	August (19-24)	<b>19.08.2024 - RAKSHABANDHAN</b>
		Plant Tissue Culture Laboratory
<b>SUNDAY - 25.08.2024</b>		
5	August (26-31)	<b>26.08.2024 - JANAMASHTMI</b>
		Aseptic Techniques
<b>SUNDAY - 01.09.2024</b>		

6	September (2-7)	maintenance of aseptic conditions
		In-vitro methods in plant tissue culture
<b>SUNDAY - 08.09.2024</b>		
7	September (9-14)	Callus and suspension culture techniques
		Callus and suspension culture techniques
<b>SUNDAY - 15.09.2024</b>		
8	September (16-21)	Somaclonal variation.
		Somaclonal variation.
<b>SUNDAY - 22.09.2024</b>		
<b>HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY</b>		
9	September (24-28)	Organ culture
		Organ culture
<b>SUNDAY - 29.09.2024</b>		
10	September (30) October (1, 4-5)	Assignment
		Protoplast culture
		<b>02.10.2024 - MAHATMA GANDHI JAYANTI</b>
		<b>03.10.2024 - (MAHARAJA AGRASEN JAYANTI)</b>
<b>SUNDAY - 06.10.2024</b>		

11	October (7-11)	Protoplast culture
		Production of secondary metabolites in vitro
<b>HOLIDAY 12.10.2024 - (DUSSEHRA)</b>		
<b>SUNDAY - 13.10.2024</b>		
12	October (14-19)	Production of secondary metabolites in vitro
		Biotransformation
		<b>17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI</b>
<b>SUNDAY - 20.10.2024</b>		
13	October (21-26)	Biotransformation
		Plant germ plasm conservation and cryopreservation
<b>DIWALI BREAK - 27.10.2024 - 03.11.2024</b>		
14	November (4-9)	Plant germ plasm conservation and cryopreservation
		Introduction, Plant transformation
<b>SUNDAY - 10.11.2024</b>		
15	November (11-16)	Applications of Plant tissue cultures
		Applications of Plant tissue cultures
		<b>15.11.2024 - GURU NANAK DEV JAYANTI</b>
<b>SUNDAY - 17.11.2024</b>		
16	November (18-22)	Revision
		Revision
<b>23.11.2024 - Examinations</b>		

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## LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG ( V - Semester)

Name of the Paper:- Plant Biotechnology Class: BSc.III

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

WEEK	DATE	TOPICS
1	August (1-3)	
<b>SUNDAY - 04.08.2024</b>		
2	August (5-10)	
		<b>07.08.2024 - TEEJ</b>
		Plant Tissue Culture: Introduction/Concept, History, Scope and Applications along with major achievements
		Plant Tissue Culture: Introduction/Concept, History, Scope and Applications along with major achievements
		Plant Tissue Culture: Introduction/Concept, History, Scope and Applications along with major achievements
<b>SUNDAY - 11.08.2024</b>		
3	August (12-17)	
		<b>15.08.2024 - INDEPENDENCE DAY</b>
		Plant Tissue Culture Laboratory
		Aseptic Techniques
<b>SUNDAY - 18.08.2024</b>		
4	August (19-24)	<b>19.08.2024 - RAKSHABANDHAN</b>
		maintenance of aseptic conditions
		In-vitro methods in plant tissue culture
		In-vitro methods in plant tissue culture
<b>SUNDAY - 25.08.2024</b>		
5	August (26-31)	<b>26.08.2024 - JANAMASHTMI</b>
		Callus and suspension culture techniques
		Callus and suspension culture techniques
		Somaclonal variation.
<b>SUNDAY - 01.09.2024</b>		
6	September (2-7)	
		Somaclonal variation.
		Somaclonal variation.
		Organ culture
<b>SUNDAY - 08.09.2024</b>		

7	September (9-14)	
		Organ culture
		Organ culture
<b>SUNDAY - 15.09.2024</b>		
8	September (16-21)	
		Assignment
		Protoplast culture
<b>SUNDAY - 22.09.2024</b>		
<b>HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY</b>		
9	September (24-28)	
<b>SUNDAY - 29.09.2024</b>		
10	September (30) October (1, 4-5)	
		<b>02.10.2024 - MAHATMA GANDHI JAYANTI</b>
		<b>03.10.2024 - (MAHARAJA AGRASEN JAYANTI)</b>
		Production of secondary metabolites in vitro
<b>SUNDAY - 06.10.2024</b>		
11	October (7-11)	
		Biotransformation
		Biotransformation
<b>HOLIDAY 12.10.2024 - (DUSSEHRA)</b>		
<b>SUNDAY - 13.10.2024</b>		
12	October (14-19)	
		<b>17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI</b>
		Plant germ plasm conservation and cryopreservation
<b>SUNDAY - 20.10.2024</b>		

13	October (21-26)	
		Introduction, Plant transformation
		Introduction, Plant transformation
Transgenic Plants: Introduction and applications		
<b>DIWALI BREAK - 27.10.2024 - 03.11.2024</b>		
14	November (4-9)	
		Transgenic Plants: Introduction and applications
		Transgenic Plants: Introduction and applications
Applications of Plant tissue cultures		
<b>SUNDAY - 10.11.2024</b>		
15	November (11-16)	
		Applications of Plant tissue cultures
		<b>15.11.2024 - GURU NANAK DEV JAYANTI</b>
Applications of Plant tissue cultures		
<b>SUNDAY - 17.11.2024</b>		
16	November (18-22)	
		Applications of Plant tissue cultures
		Revision
Test		
<b>23.11.2024 - Examinations</b>		

# I.B. (PG) COLLEGE, PANIPAT

## LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG ( V - Semester)

Name of the Paper:- Inorganic Chemistry

Class: B.Sc. III

Name of the Teachers (Section Wise) : Vasundhara Madaan

WEEK	DATE	TOPICS
1	August (1-3)	
<b>SUNDAY - 04.08.2024</b>		
2	August (5-10)	Metal- Ligand Bonding in Transition Metal complexes: Valence bond Theory, Limitations of valence bond theory
		An elementary idea of crystal field theory, crystal field splitting in octahedral complexes
		<b>07.08.2024 - TEEJ</b>
<b>SUNDAY - 11.08.2024</b>		
3	August (12-17)	Crystal field splitting in tetrahedral and square planar complexes
		Factors affecting the crystal field parameters
		<b>15.08.2024 - INDEPENDENCE DAY</b>
<b>SUNDAY - 18.08.2024</b>		
4	August (19-24)	<b>19.08.2024 - RAKSHABANDHAN</b>
		Crystal field theory and magnetic properties of complexes
<b>SUNDAY - 25.08.2024</b>		
5	August (26-31)	<b>26.08.2024 - JANAMASHTMI</b>
		Brief outline of thermodynamic stability of metal complexes

<b>SUNDAY - 01.09.2024</b>		
6	September (2-7)	Factors affecting the stability of metal complexes, Irving William Series
		Substitution reactions of square planer complexes of Pt[II]
<b>SUNDAY - 08.09.2024</b>		
7	September (9-14)	Trans effect
		Theories of Trans effect
<b>SUNDAY - 15.09.2024</b>		
8	September (16-21)	Magnetic properties of Transition metal complexes
		Types of magnetic materials, magnetic susceptibility
<b>SUNDAY - 22.09.2024</b>		
<b>HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY</b>		
9	September (24-28)	Method of determining magnetic susceptibility
<b>SUNDAY - 29.09.2024</b>		
10	September (30) October (1, 4-5))	Spin only formula, L-S coupling
		Correlation of $\mu_s$ and $\mu_{eff}$ values
		<b>02.10.2024 - MAHATMA GANDHI JAYANTI</b>
		<b>03.10.2024 - (MAHARAJA AGRASEN JAYANTI)</b>
<b>SUNDAY - 06.10.2024</b>		
11	October (7-11)	Orbital contribution to magnetic moments
		Application of magnetic moment data for 3d metal complexes
<b>HOLIDAY 12.10.2024 - (DUSSEHRA)</b>		
<b>SUNDAY - 13.10.2024</b>		



12	October (14-19)	Basis of electron Absorption spectroscopy
		Term Symbols and coupling schemes
		<b>17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI</b>
<b>SUNDAY - 20.10.2024</b>		
13	October (21-26)	Steps to assign term symbols and determination of ground state term
		Selection rules for d-d transition, spectroscopic ground states
<b>DIWALI BREAK - 27.10.2024 - 03.11.2024</b>		
14	November (4-9)	Spectrochemical series
		Orgel energy level diagram for d1 state
<b>SUNDAY - 10.11.2024</b>		
15	November (11-16)	Orgel energy level diagram for d9 state
		Discussion of electronic spectrum of $[Ti(H_2O)_6]^{+3}$ complex ion
		<b>15.11.2024 - GURU NANAK DEV JAYANTI</b>
<b>SUNDAY - 17.11.2024</b>		
16	November (18-22)	Sample papers
		Sample papers
<b>23.11.2024 - Examinations</b>		

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## LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG ( V - Semester)

Name of the Paper:- Chemistry

Class: B.Sc. (III)

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

WEEK	DATE	TOPICS
1	August (1-3)	<b>Spectroscopy</b>
		Introduction:
		Electromagnetic radiation, regions of spectrum,
<b>SUNDAY - 04.08.2024</b>		
2	August (5-10)	
		<b>07.08.2024 - TEEJ</b>
		basic features of spectroscopy
		statement of Born- oppenheimer approximation
		Degrees of freedom
<b>SUNDAY - 11.08.2024</b>		
3	August (12-17)	<b>Rotational Spectrum</b> Selection rules
		Energy levels of rigid rotator (semi-classical principles)
		determination of bond length and isotopic effect
		<b>15.08.2024 - INDEPENDENCE DAY</b>
		rotational spectra of diatomic molecules
		spectral intensity distribution using population distribution (Maxwell-Boltzmann distribution),
<b>SUNDAY - 18.08.2024</b>		
4	August (19-24)	<b>19.08.2024 - RAKSHABANDHAN</b>
		<b>Vibrational spectrum:</b> Selection rules
		, Energy levels of simple harmonic oscillator,
		pure vibrational spectrum of diatomic molecules,
<b>SUNDAY - 25.08.2024</b>		
5	August (26-31)	<b>26.08.2024 - JANAMASHTMI</b>
		determination of force constant and qualitative relation of force constant and bond energy,
		idea of vibrational frequencies of different functional groups.
<b>SUNDAY - 01.09.2024</b>		
6	September (2-7)	<b>Quantum Mechanics- I</b>
		<b>Raman Spectrum</b>
		Concept of polarizability,
		pure rotational and pure vibrational Raman spectra of diatomic molecules,
		selection rules, Quantum theory of Raman spectra.
<b>SUNDAY - 08.09.2024</b>		

7	September (9-14)	
		Black- body radiation, Plank' s radiation law, photoelectric effect,
		<b>SUNDAY - 15.09.2024</b>
8	September (16-21)	
		postulates of quantum mechanics, quantum mechanical operators, average value of square of Hermitian as a positive quantity,
		<b>SUNDAY - 22.09.2024</b>
<b>HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY</b>		
9	September (24-28)	
		Hamiltonian operator, Hermitian operator, Role of operators in quantum mechanics,
		<b>SUNDAY - 29.09.2024</b>
10	September (30) October (1, 4-5))	
		<b>02.10.2024 - MAHATMA GANDHI JAYANTI</b>
		<b>03.10.2024 - (MAHARAJA AGRASEN JAYANTI)</b>
		To show quantum mechanically that position and momentum cannot be predicated simultaneously,
<b>SUNDAY - 06.10.2024</b>		
11	October (7-11)	
		Determination of wave function & energy of a particle in one dimensional box.
		<b>HOLIDAY 12.10.2024 - (DUSSEHRA)</b>
<b>SUNDAY - 13.10.2024</b>		
12	October (14-19)	
		<b>17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI</b>
		Optical activity polarization – Clausius Mossotti equation- ) .
		<b>SUNDAY - 20.10.2024</b>
13	October (21-26)	
		Orientation of dipoles in an electric field, dipole moment, induced dipole moment, measurement of dipole moment-
		<b>DIWALI BREAK - 27.10.2024 - 03.11.2024</b>

14	November (4-9)	
		temperature method and refractivity method, dipole moment and structure of molecules,
		Magnetic permeability, magnetic susceptibility and its determination.
<b>SUNDAY - 10.11.2024</b>		
15	November (11-16)	
		Application of magnetic susceptibility, magnetic properties – paramagnetism,
		<b>15.11.2024 - GURU NANAK DEV JAYANTI</b>
		diamagnetism and ferromagnetism.
<b>SUNDAY - 17.11.2024</b>		
16	November (18-22)	
		Revision
<b>23.11.2024 - Examinations</b>		

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## LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG ( V - Semester)

Name of the Paper:- Organic Chemistry Class: B.Sc. III

Name of the Teachers (Section Wise) : Era Garg

WEEK	DATE	TOPICS
1	August (1-3)	
<b>SUNDAY - 04.08.2024</b>		
2	August (5-10)	
		<b>07.08.2024 - TEEJ</b>
		Principle of nuclear magnetic resonance
<b>SUNDAY - 11.08.2024</b>		
3	August (12-17)	
		The PMR spectrum and number of signals
		<b>15.08.2024 - INDEPENDENCE DAY</b>
<b>SUNDAY - 18.08.2024</b>		
4	August (19-24)	<b>19.08.2024 - RAKSHABANDHAN</b>
		Peak areas and magnetic equivalent and nonequivalent protons
		Positions of signals and chemical shift, shielding and deshielding of protons
<b>SUNDAY - 25.08.2024</b>		
5	August (26-31)	<b>26.08.2024 - JANAMASHTMI</b>
		proton counting and splitting of signals
		Coupling constant and magnetic equivalence of protons
<b>SUNDAY - 01.09.2024</b>		

6	September (2-7)	
		Discussion of PMR spectra of the molecules: ethyl bromide, n- propyl bromide, isopropyl bromide, 1,1- dibromoethane, 1,1,2- tribromoethane, ethanol, acetaldehyde
		Discussion of PMR spectra of the molecules: ethyl acetate, toluene, benzaldehyde and acetophenone
<b>SUNDAY - 08.09.2024</b>		
7	September (9-14)	
		Simple problems on PMR spectroscopy
		Simple problems on PMR spectroscopy
<b>SUNDAY - 15.09.2024</b>		
8	September (16-21)	
		Carbohydrates: Classification and nomenclature of Monosaccharides mechanism of osazone formation, interconversion of glucose, fructose
<b>SUNDAY - 22.09.2024</b>		
<b>HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY</b>		
9	September (24-28)	
		chain lengthening and chain shortening of aldoses
		Configuration of monosaccharides, Erythro and threo diastereomers
<b>SUNDAY - 29.09.2024</b>		
10	September (30) October (1, 4-5)	
		<b>02.10.2024 - MAHATMA GANDHI JAYANTI</b>
		<b>03.10.2024 - (MAHARAJA AGRASEN JAYANTI)</b>
<b>SUNDAY - 06.10.2024</b>		

11	October (7-11)	
		Formation of glycosides, ethers and esters
		Determination of ring size of glucose and fructose
<b>HOLIDAY 12.10.2024 - (DUSSEHRA)</b>		
<b>SUNDAY - 13.10.2024</b>		
12	October (14-19)	
		Open chain and cyclic structures of D-(+)- Glucose and D(-) Fructose
		<b>17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI</b>
<b>SUNDAY - 20.10.2024</b>		
13	October (21-26)	
		mechanism of mutarotation and structure of ribose and deoxyribose
		An introduction to disaccharides and polysaccharides
<b>DIWALI BREAK - 27.10.2024 - 03.11.2024</b>		
14	November (4-9)	
		Organomagnesium compounds, formation of Grignard's reagent
		structure and chemical reactions of Grignard's reagent
<b>SUNDAY - 10.11.2024</b>		
15	November (11-16)	
		Organozinc compounds: formation and chemical reactions
		<b>15.11.2024 - GURU NANAK DEV JAYANTI</b>
<b>SUNDAY - 17.11.2024</b>		
16	November (18-22)	
		Organolithium compounds: formation
		Organolithium compounds: chemical reactions of alkyllithium
<b>23.11.2024 - Examinations</b>		

# I.B. (PG) COLLEGE, PANIPAT

## LESSON PLAN

**SESSION 2024-25 (01.08.2024 to 22.11.2024)**

Weekly Lesson Plan (Odd Semester)

UG ( V - Semester)

Name of the Paper:- Groups and Rings

Class: B.Sc. III

Name of the Teachers (Section Wise) : Dr. Poonam Gupta

WEEK	DATE	TOPICS
1	August (1-3)	BINARY OPERATION AND ALGEBRAIC STRUCTURE
		SEMI GROUP AND MONOID
		GROUP
<b>SUNDAY - 04.08.2024</b>		
2	August (5-10)	SEMI GROUP AND MONOID
		GROUP
		<b>07.08.2024 - TEEJ</b>
		ADDITION MODULO
<b>SUNDAY - 11.08.2024</b>		
3	August (12-17)	MULTIPLICATION MODULO
		EXAMPLES
		THEOREMS ON ORDER OF ELEMENT
		PROBLEM DISCUSSION
<b>SUNDAY - 18.08.2024</b>		
4	August (19-24)	<b>19.08.2024 - RAKSHABANDHAN</b>
		SUBGROUPS
		THEOREMS
		EXAMPLES
		ALGEBRA OF SUBGROUPS
<b>SUNDAY - 25.08.2024</b>		
5	August (26-31)	<b>26.08.2024 - JANAMASHTMI</b>
		COSETS
		THEOREMS ON COSETS
		LAGRANGES THEOREM
		CYCLIC GROUPS
<b>SUNDAY - 01.09.2024</b>		



6	September (2-7)	THEOREMS ON CYCLIC GROUPS
		EXAMPLES
		NORMAL SUBGROUP AND SIMPLE GROUP
		THEOREMS ON NORMAL SUBGROUPS
<b>SUNDAY - 08.09.2024</b>		
7	September (9-14)	QUOTIENT GROUP
		QUOTIENT GROUP CONTINUED
		HOMOMORPHISM
		KERNAL OF HOMOMORPHISM
<b>SUNDAY - 15.09.2024</b>		
8	September (16-21)	THEOREMS ON HOMOMORPHISM
		AUTOMORPHISM ON A GROUP
		PROPERTIES OF AUTOMORPHISM
		EXAMPLES
<b>SUNDAY - 22.09.2024</b>		
<b>HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY</b>		
9	September (24-28)	PERMUTATION GROUP
		THEOREMS
		RINGS
		THEOREMS ON RINGS
<b>SUNDAY - 29.09.2024</b>		
10	September (30) October (1, 4-5)	FIELD
		EXAMPLES
		INTEGRAL DOMAIN
		<b>03.10.2024 - (MAHARAJA AGRASEN JAYANTI)</b>
<b>SUNDAY - 06.10.2024</b>		

11	October (7-11)	SUBRING OF A RING
		THEOREMS
		IDEALS OF A RING
		ALGEBRA OF IDEALS
<b>HOLIDAY 12.10.2024 - (DUSSEHRA)</b>		
<b>SUNDAY - 13.10.2024</b>		
12	October (14-19)	IDEALS IN DIVISION RINGS AND FIELDS
		THEOREMS
		QUOTIENT RINGS
		<b>17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI</b>
<b>SUNDAY - 20.10.2024</b>		
13	October (21-26)	RING HOMOMORPHISMS
		IMBEDDING OF RINGS
		IMBEDDING OF RING INTO A RING WITH UNITY
		IMBEDDING OF RING INTO A RING OF ENDOMORPHISM
<b>DIWALI BREAK - 27.10.2024 - 03.11.2024</b>		
14	November (4-9)	DIVISIBILITY
		EUCLIDEAN DOMAIN
		THEOREMS
		RING OF POLYNOMIALS
<b>SUNDAY - 10.11.2024</b>		
15	November (11-16)	THEOREMS ON POLYNOMIALS
		REMAINDER THEOREM
		RING OF POLYNOMIALS OVER N SYMBOLS
		RING OF POLYNOMIALS OVER N SYMBOLS
		<b>15.11.2024 - GURU NANAK DEV JAYANTI</b>
<b>SUNDAY - 17.11.2024</b>		
16	November (18-22)	UNIQUE FACTORIZATION DOMAIN
		PROBLEM DISCUSSION
		REVISION
		REVISION
<b>23.11.2024 - Examinations</b>		

# I.B. (PG) COLLEGE, PANIPAT

## LESSON PLAN

**SESSION 2024-25 (01.08.2024 to 22.11.2024)**

Weekly Lesson Plan (Odd Semester)

UG (V - Semester)

Name of the Paper:- Real Analysis

Class: B.Sc.-III

Name of the Teachers (Section Wise) : Sangeeta

WEEK	DATE	TOPICS
1	August (1-3)	Riemann integral
		Questions and examples
<b>SUNDAY - 04.08.2024</b>		
2	August (5-10)	Darboux Theorem
		Questions and examples
		<b>07.08.2024 - TEEJ</b>
		Integrability of continuous and monotonic functions
	The Fundamental theorem of integral calculus	
<b>SUNDAY - 11.08.2024</b>		
3	August (12-17)	Mean value theorems of integral calculus
		Improper integrals
		<b>15.08.2024 - INDEPENDENCE DAY</b>
		Improper integrals and their convergence
	Comparison tests	
<b>SUNDAY - 18.08.2024</b>		
4	August (19-24)	<b>19.08.2024 - RAKSHABANDHAN</b>
		Abel's and Dirichlet's tests
		Dirichlet's tests
		Frullani's integral
<b>SUNDAY - 25.08.2024</b>		
5	August (26-31)	<b>26.08.2024 - JANAMASHTMI</b>
		Integral as a function of a parameter
		Continuity
		Differentiability
<b>SUNDAY - 01.09.2024</b>		
6	September (2-7)	Differentiability
		Integrability of an integral of a function of a parameter
		Definition and examples of metric spaces
		Definition and examples of metric spaces
<b>SUNDAY - 08.09.2024</b>		

7	September (9-14)	Neighborhoods, limit points
		Interior points
		Open and closed sets
		Questions and examples
<b>SUNDAY - 15.09.2024</b>		
8	September 21)	(16- Closure and interior
		Subspace of a metric space
		Questions and examples
		Equivalent metrics
<b>SUNDAY - 22.09.2024</b>		
<b>HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY</b>		
9	September 28)	(24- Cauchy sequences
		Completeness
		Questions and examples
<b>SUNDAY - 29.09.2024</b>		
10	September (30) October (1, 4-5)	Cantor's intersection theorem
		Questions and examples
		<b>02.10.2024 - MAHATMA GANDHI JAYANTI</b>
		<b>03.10.2024 - (MAHARAJA AGRASEN JAYANTI)</b>
		Baire's category theorem
Questions and examples		
<b>SUNDAY - 06.10.2024</b>		

11	October (7-11)	Baire's category theorem
		Problem discussion
		Contraction principle
<b>HOLIDAY 12.10.2024 - (DUSSEHRA)</b>		
<b>SUNDAY - 13.10.2024</b>		
12	October (14-19)	Contraction principle
		Continuous functions
		<b>17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI</b>
		Uniform continuity
		Questions and examples
<b>SUNDAY - 20.10.2024</b>		
13	October (21-26)	Compactness for metric spaces
		Sequential compactness
		Bolzano-Weierstrass property
		Questions and examples
<b>DIWALI BREAK - 27.10.2024 - 03.11.2024</b>		
14	November (4-9)	Finite intersection property
		Questions and examples
		Connectedness
		Questions and examples
<b>SUNDAY - 10.11.2024</b>		
15	November (11-16)	Components
		Questions and examples
		<b>15.11.2024 - GURU NANAK DEV JAYANTI</b>
		Questions and examples
<b>SUNDAY - 17.11.2024</b>		
16	November (18-22)	Revision
		Revision
		Revision
<b>23.11.2024 - Examinations</b>		

# I.B. (PG) COLLEGE, PANIPAT

## LESSON PLAN

**SESSION 2024-25 (01.08.2024 to 22.11.2024)**

Weekly Lesson Plan (Odd Semester)

UG (5<sup>th</sup> Semester) PHYSICS

Name of the Paper:- Quantum Mechanics and Laser Physics      Class: B.Sc.III Year

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

WEEK	DATE	TOPICS
1	August (1-3)	UNIT-1: Overview, scale of quantum physics, boundary between classical and quantum phenomena, Photon
		<b>SUNDAY - 04.08.2024</b>
2	August (5-10)	Photoelectric effect, Compton effect (theory and result), Frank-Hertz experiment, de-Broglie hypothesis
		<b>07.08.2024 - TEEJ</b>
		Davisson and Germer experiment, ·G.P. Thomson experiment. Phase velocity, group velocity and their relation
<b>SUNDAY - 11.08.2024</b>		
3	August (12-17)	Heisenberg's uncertainty principle. Time energy and angular momentum, position uncertainty. Uncertainty principle from de Broglie wave. (Wave-particle duality).
		<b>15.08.2024 - INDEPENDENCE DAY</b>
		Gamma Ray Microscope, Electron diffraction from a slit
<b>SUNDAY - 18.08.2024</b>		
4	August (19-24)	<b>19.08.2024 - RAKSHABANDHAN</b>
		Derivation of 1-D time-dependent Schrodinger wave equation (subject to force, free particle).
		Time-independent Schrodinger wave equation, eigen values, eigen functions, wave functions and its significance.
<b>SUNDAY - 25.08.2024</b>		
5	August (26-31)	<b>26.08.2024 - JANAMASHTMI</b>
		Orthogonality and Normalization of function, concept of observer and operator
		Expectation values of dynamical quantities, probability current density
<b>SUNDAY - 01.09.2024</b>		

6	September (2-7)	UNIT-2: Application of Schrodinger wave equation: (i) Free particle in one-dimensional box (solution of Schrodinger wave equation, eigen functions, eigen values, quantization of energy and momentum, nodes and anti nodes, zero point energy).
		(ii) One dimensional step potential $E > V_0$ (Reflection and Transmission coefficient)
<b>SUNDAY - 08.09.2024</b>		
7	September (9-14)	(iii) One dimensional step potential $E < V_0$ (penetration depth calculation).
		(iv) One dimensional potential barrier, $E > V_0$ (Reflection and Transmission coefficient)
<b>SUNDAY - 15.09.2024</b>		
8	September (16-21)	(v) One-dimensional potential barrier, $E < V_0$ (penetration or tunneling coefficient).
		(vi) Solution of Schrodinger equation for harmonic oscillator (quantization of energy, Zero-point energy, wave equation for ground state and excited states).
<b>SUNDAY - 22.09.2024</b>		
<b>HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY</b>		
9	September (24-28)	Application of Harmonic Oscillator Continued.
		Unit III: Laser Physics –I: Absorption and emission of radiation, Main features of a laser: Directionality, high intensity, high degree of coherence,
<b>SUNDAY - 29.09.2024</b>		
10	September (30) October (1, 4-5)	Main features of a laser: spatial and temporal coherence, Einstein's coefficients and possibility of amplification
		<b>02.10.2024 - MAHATMA GANDHI JAYANTI</b>
		<b>03.10.2024 - (MAHARAJA AGRASEN JAYANTI)</b>
		Momentum transfer, life time of a level, kinetics of optical absorption ((two and three level rate equation, Fuchbauer landerburg formula)
<b>SUNDAY - 06.10.2024</b>		

11	October (7-11)	Population inversion: A necessary condition for light amplification, resonance cavity, laser pumping
<b>HOLIDAY 12.10.2024 - (DUSSEHRA)</b>		
<b>SUNDAY - 13.10.2024</b>		
12	October (14-19)	Threshold condition for laser emission, line broadening mechanism, homogeneous and inhomogeneous line broadening (natural, collision and Doppler broadening)
		<b>17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI</b>
		Unit-4: Laser Physics – II- He-Ne laser and RUBY laser (Principle, Construction and working)
<b>SUNDAY - 20.10.2024</b>		
13	October (21-26)	Optical properties of semiconductor
		Semiconductor laser (Principle, Construction and working)
<b>DIWALI BREAK - 27.10.2024 - 03.11.2024</b>		
14	November (4-9)	Applications of lasers in the field of medicine and industry
		Revision of Unit-1
<b>SUNDAY - 10.11.2024</b>		
15	November (11-16)	Revision of Unit-2
		<b>15.11.2024 - GURU NANAK DEV JAYANTI</b>
		Revision of Unit-3
<b>SUNDAY - 17.11.2024</b>		
16	November (18-22)	Revision of Unit-4
<b>23.11.2024 - Examinations</b>		



# 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)

V

Name of the Paper:-

Nuclear Physics

Name of the Teachers (Section Wise) :

MS SONIA

WEEK	DATE	TOPICS
1	August (1-3)	Nuclear Structure and Properties of Nuclei Nuclear composition (p-e and p-n hypotheses)
<b>SUNDAY - 04.08.2024</b>		
2	August (5-10)	Nuclear properties; Nuclear size, spin, parity, statistics, magnetic dipole moment, quadruple moment (shape concept). Determination of mass by Bain-Bridge,
		<b>07.08.2024 - TEEJ</b>
<b>SUNDAY - 11.08.2024</b>		
3	August (12-17)	Bain-Bridge and Jordan mass spectrograph. Determination of charge by Mosley Law. Determination of size of nuclei by Rutherford Back Scattering.
		<b>15.08.2024 - INDEPENDENCE DAY</b>
<b>SUNDAY - 18.08.2024</b>		
4	August (19-24)	<b>19.08.2024 - RAKSHABANDHAN</b>
		mass and binding energy, systematic of nuclear binding energy, nuclear stability ,Numericals
<b>SUNDAY - 25.08.2024</b>		
5	August (26-31)	<b>26.08.2024 - JANAMASHTMI</b>
		Nuclear Radiation decay Processes Alpha-disintegration and its theory. Energetics of alpha-decay, Origin of continuous beta spectrum (neutrino hypothesis), types of beta-decay and energetics of beta-decay.
<b>SUNDAY - 01.09.2024</b>		

6	September (2-7)	Nature of gamma rays, Energetics of gamma rays. Radiation interaction Interaction of heavy charged particles (Alpha particles); Energy loss of heavy charged particle (idea of Bethe formula, no derivation)
<b>SUNDAY - 08.09.2024</b>		
7	September (9-14)	Range and straggling of alpha particles. Geiger-Nuttal law. Interaction of light charged particle (Beta-particle), Energy loss of beta-particles (ionization), Range of electrons, absorption of beta-particles
<b>SUNDAY - 15.09.2024</b>		
8	September (16-21)	Interaction of Gamma Ray; Passage of Gamma radiations through matter (Photoelectric, Compton and pair production effect) electron-positron annihilation. Absorption of Gamma rays (Mass attenuation coefficient) and its application
<b>SUNDAY - 22.09.2024</b>		
<b>HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY</b>		
9	September (24-28)	Nuclear Accelerators Linear accelerator, Tandem accelerator, Cyclotron and Betatron accelerators.
<b>SUNDAY - 29.09.2024</b>		
10	September (30) October (1, 4-5)	Nuclear Radiation Detectors. Gas filled counters; Ionization chamber
		<b>02.10.2024 - MAHATMA GANDHI JAYANTI</b>
		<b>03.10.2024 - (MAHARAJA AGRASEN JAYANTI)</b>
<b>SUNDAY - 06.10.2024</b>		
11	October (7-11)	Proportional counter, G.M. Counter, Conditional Test
<b>HOLIDAY 12.10.2024 - (DUSSEHRA)</b>		
<b>SUNDAY - 13.10.2024</b>		

12	October (14-19)	Scintillation counter and semiconductor detector.
		<b>17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI</b>
<b>SUNDAY - 20.10.2024</b>		
13	October (21-26)	Nuclear reactions. Nuclear reactions, Elastic scattering, Inelastic scattering, Nuclear disintegration, Photonuclear reaction, Radiative capture, Direct reaction,
<b>DIWALI BREAK - 27.10.2024 - 03.11.2024</b>		
14	November (4-9)	Heavy ion reactions and spallation Reactions. Conservation laws, Q-value and reaction threshold. ☐
<b>SUNDAY - 10.11.2024</b>		
15	November (11-16)	Nuclear Reactors. Nuclear Reactors, General aspects of Reactor Design. Nuclear fission and fusion reactors, (Principle, construction, working and use).
		<b>15.11.2024 - GURU NANAK DEV JAYANTI</b>
<b>SUNDAY - 17.11.2024</b>		
16	November (18-22)	Revision
<b>23.11.2024 - Examinations</b>		

# I.B. (PG) COLLEGE, PANIPAT

## LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG ( V - Semester)

Name of the Paper:- Plant Physiology

Class: B.Sc. III Year

Name of the Teachers (Section W Ms.Khushi

WEEK	DATE	TOPICS
1	August (1-3)	
<b>SUNDAY - 04.08.2024</b>		
2	August (5-10)	plant water relation
		plant water relation
		<b>07.08.2024 - TEEJ</b>
<b>SUNDAY - 11.08.2024</b>		
3	August (12-17)	absorption of water
		absorption of water
		Translocation of water
		<b>15.08.2024 - INDEPENDENCE DAY</b>
<b>SUNDAY - 18.08.2024</b>		
4	August (19-24)	<b>19.08.2024 - RAKSHABANDHAN</b>
		Translocation of water
		Mineral nutrition
<b>SUNDAY - 25.08.2024</b>		
5	August (26-31)	<b>26.08.2024 - JANAMASHTMI</b>
		Mineral nutrition
		Uptake of mineral nutrient
<b>SUNDAY - 01.09.2024</b>		

6	September (2-7)	Uptake of mineral nutrient
		Translocation of organic solute
		Photosystem-1
<b>SUNDAY - 08.09.2024</b>		
7	September (9-14)	
<b>SUNDAY - 15.09.2024</b>		
8	September (16-21)	Photosystem-2
		Respiration-1
		Respiration-1
<b>SUNDAY - 22.09.2024</b>		
<b>HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY</b>		
9	September (24-28)	Respiration-1
		Respiration-2
<b>SUNDAY - 29.09.2024</b>		
10	September (30) October (1, 4-5)	Respiration-2
		Seed germination and Dormancy
		<b>02.10.2024 - MAHATMA GANDHI JAYANTI</b>
		<b>03.10.2024 - (MAHARAJA AGRASEN JAYANTI)</b>
<b>SUNDAY - 06.10.2024</b>		

11	October (7-11)	Seed germination and Dormancy
		Senescence and fruit ripening
		Senescence and fruit ripening
<b>HOLIDAY 12.10.2024 - (DUSSEHRA)</b>		
<b>SUNDAY - 13.10.2024</b>		
12	October (14-19)	Physiology of flowering
		Physiology of flowering
		ASSIGNMENT AND TEST
		<b>17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI</b>
<b>SUNDAY - 20.10.2024</b>		
13	October (21-26)	Physiology of flowering
		Physiology of flowering
		REVISION
<b>DIWALI BREAK - 27.10.2024 - 03.11.2024</b>		
14	November 9)	(4- Plant movement
		Plant movement
		REVISION
<b>SUNDAY - 10.11.2024</b>		
15	November (11-16)	REVISION
		REVISION
		REVISION
		<b>15.11.2024 - GURU NANAK DEV JAYANTI</b>
<b>SUNDAY - 17.11.2024</b>		
16	November (18-22)	REVISION
		REVISION
		REVISION
<b>23.11.2024 - Examinations</b>		

# 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 - Seme Ist

Name of the Paper:- Programming in 'C' Class:B.Sc.

Name of the Teachers (Section V Ms.Milan Sharma

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

6	September (2-7)	output functions viz. printf(), putchar(), puts().
		Operators Arithmetic, Relational, Logical, Bitwise, Unary, Assignment, Conditional Operators and Special Operators
		Expression
<b>07.09.2024 - GANESH CHATURTHI</b>		
<b>SUNDAY - 08.09.2024</b>		
7	September (9-14)	Group Discussion
		Operator Hierarchy, Evaluation of Arithmetic Expression, HTML Document Features;HTML Tags; Header, Title, Body, Paragraph,
<b>SUNDAY - 15.09.2024</b>		
8	September (16-21)	Type Casting and Conversion
		ASSIGNMENT 1
		Decision making with if statement, if- else statement
<b>SUNDAY - 22.09.2024</b>		
<b>HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY</b>		
9	September (24-28)	nested if statement, else-if ladder,
		Looping Statements: for, while, and do- while loop
<b>SUNDAY - 29.09.2024</b>		
10	September (30) October (1, 4-5)	Programming of loops, jumps in loops.
		Arrays: One Dimensional arrays Declaration, Initialization
		<b>02.10.2024 - MAHATMA GANDHI JAYANTI</b>
		<b>03.10.2024 - (MAHARAJA AGRASEN JAYANTI)</b>
<b>SUNDAY - 06.10.2024</b>		
11	October (7-11)	Memory representation; Two Dimensional arrays Declaration, Initialization and Memory representation
		Functions: definition, prototype
		TEST
<b>HOLIDAY 12.10.2024 - (DUSSEHRA)</b>		
<b>SUNDAY - 13.10.2024</b>		



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
		<b>17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI</b>
<b>SUNDAY - 20.10.2024</b>		
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
<b>DIWALI BREAK - 27.10.2024 - 03.11.2024</b>		
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
		<b>07.11.2024 - CHHAT PUJA</b>
<b>SUNDAY - 10.11.2024</b>		
15	November (11-16)	Structure members initialization, Array of Structures
		Unions - Union definition
		difference between Structure and Union
		<b>15.11.2024 - GURU NANAK DEV JAYANTI</b>
<b>SUNDAY - 17.11.2024</b>		
16	November (18-22)	REVISION
		REVISION
		REVISION
<b>23.11.2024 - Examinations</b>		

# I.B. (PG) COLLEGE, PANIPAT

## LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG 5th Semester)

Name of the Environmental Biology Class: B.Sc. Vth Sem ( Zoology)

Name of the Teachers : Pawan Kumar

WEEK	DATE	TOPICS
1	August (1-3)	Basic concepts of ecology
		Basic concepts of ecology
		Basic concepts of ecology
<b>SUNDAY - 04.08.2024</b>		
2	August (5-10)	
		<b>07.08.2024 - TEEJ</b>
		Basic concepts of ecology
		Basic concepts of ecology
3	August (12-17)	
		<b>15.08.2024 - INDEPENDENCE DAY</b>
		Factors affecting environment
4	August (19-24)	
		<b>19.08.2024 - RAKSHABANDHAN</b>
		Factors affecting environment
		Factors affecting environment
5	August (26-31)	
		Factors affecting environment
		Factors affecting environment
<b>SUNDAY - 01.09.2024</b>		
6	September (2-7)	
		Introduction to major ecosystem of the world.
		Introduction to major ecosystem of the world.
<b>SUNDAY - 08.09.2024</b>		

7	September (9-14)	
		Class Test
		Ecosystem
<b>SUNDAY - 15.09.2024</b>		
8	September (16-21)	
		Ecosystem
		Ecosystem
<b>SUNDAY - 22.09.2024</b>		
<b>HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY</b>		
9	September (24-28)	
		Ecosystem
		Class Test
<b>SUNDAY - 29.09.2024</b>		
10	September (30) October (1, 4-5)	
		<b>02.10.2024 - MAHATMA GANDHI JAYANTI</b>
		<b>03.10.2024 - (MAHARAJA AGRASEN JAYANTI)</b>
		Biogeochemical cycles
<b>SUNDAY - 06.10.2024</b>		
11	October (7-11)	
		Biogeochemical cycles
		Population interactions
<b>HOLIDAY 12.10.2024 - (DUSSEHRA)</b>		
<b>SUNDAY - 13.10.2024</b>		
12	October (14-19)	
		<b>17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI</b>
		Population
<b>SUNDAY - 20.10.2024</b>		

13	October (21-26)	
		Population
		Population
Class Test		
<b>DIWALI BREAK - 27.10.2024 - 03.11.2024</b>		
14	November (4-9)	
		Concept of Biodiversity
		Concept of Biodiversity
Concept of Biodiversity		
<b>SUNDAY - 10.11.2024</b>		
15	November (11-16)	
		Migration in fishes and birds
		<b>15.11.2024 - GURU NANAK DEV JAYANTI</b>
Concept of Biodiversity		
<b>SUNDAY - 17.11.2024</b>		
16	November (18-22)	
		Environmental Pollution
		Environmental Pollution
Revision		
<b>23.11.2024 - Examinations</b>		

# I.B. (PG) COLLEGE, PANIPAT

## LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG ( V - Semester)

Name of the Paper:-EVOLUTION AND DEVELOPMENTAL BIOLOGY Class: B.Sc. III Year

Name of the Teachers (Section W Mrs.Neelam Thareja

WEEK	DATE	TOPICS
1	August (1-3)	
<b>SUNDAY - 04.08.2024</b>		
2	August (5-10)	GAMETOGENESIS
		GENERAL STRUCTURE OF MAMMALIAN SPERM
		07.08.2024 - TEEJ
<b>SUNDAY - 11.08.2024</b>		
3	August (12-17)	SPERMATOGENESIS
		SPERMATOGENESIS
		SPERMATOGENESIS
		15.08.2024 - INDEPENDENCE DAY
<b>SUNDAY - 18.08.2024</b>		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		HORMONAL CONTROL OF SPERMATOGENESIS
		OOGENESIS
<b>SUNDAY - 25.08.2024</b>		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		OOGENESIS
		HORMONAL CONTROL OF OOGENESIS
<b>SUNDAY - 01.09.2024</b>		

6	September (2-7)	FERTILISATION
		FERTILISATION
		CLEAVAGE PATTERNS
<b>SUNDAY - 08.09.2024</b>		
7	September (9-14)	PARTHENOGENESIS
		BLASTULATION
		BLASTULATION
<b>SUNDAY - 15.09.2024</b>		
8	September (16-21)	FATE MAP IN FROG
		FATE MAP IN FROG
		FATE MAP IN CHICK
<b>SUNDAY - 22.09.2024</b>		
<b>HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY</b>		
9	September (24-28)	FATE MAP IN CHICK
		GASTRULATION IN FROG
		GASTRULATION IN CHICK
<b>SUNDAY - 29.09.2024</b>		
10	September (30) October (1, 4-5)	PRIMARY ORGANISERS
		PRIMARY ORGANISERS
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
<b>SUNDAY - 06.10.2024</b>		

11	October (7-11)	EXTRA EMBRYONIC MEMBRANES
		EXTRA EMBRYONIC MEMBRANES
		CONCEPT OF COMPETENCE , DETERMINATION
<b>HOLIDAY 12.10.2024 - (DUSSEHRA)</b>		
<b>SUNDAY - 13.10.2024</b>		
12	October (14-19)	CONCEPT OF DIFFERENTIATION
		REGENERATION
		REGENERATION
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
<b>SUNDAY - 20.10.2024</b>		
13	October (21-26)	ORIGIN OF LIFE
		CONCEPT AND EVIDENCES OF ORGANIC EVOLUTION
		THEORIES OF ORGANIC EVOLUTION
<b>DIWALI BREAK - 27.10.2024 - 03.11.2024</b>		
14	November (4-9)	THEORIES OF ORGANIC EVOLUTION
		CONCEPT OF MICRO, MACRO AND MEGA EVOLUTION
		CONCEPT OF MICRO, MACRO AND MEGA EVOLUTION
<b>SUNDAY - 10.11.2024</b>		
15	November (11-16)	CONCEPT OF SPECIES
		PHYLOGENY OF HORSE
		PHYLOGENY OF HORSE
		15.11.2024 - GURU NANAK DEV JAYANTI
<b>SUNDAY - 17.11.2024</b>		
16	November (18-22)	TEST AND ASSIGNMENT
		EVOLUTION OF MAN
		TEST AND ASSIGNMENT
<b>23.11.2024 - Examinations</b>		