

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (III - Semester)

Name of the Paper:- Sem 3, AEC HINDI हिंदी भाषा एवं संप्रेषण, लेखन संप्रेषण

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

WEEK	DATE	TOPICS
1	August (1-3)	विषय क्रम चर्चा
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		इकाई 1- लेखन संप्रेषण से अभिप्राय
SUNDAY - 11.08.2024		
3	August (12-17)	लेखन संप्रेषण के विविध आयाम
		15.08.2024 - INDEPENDENCE DAY
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		लेखन संप्रेषण के उद्देश्य
		लेखन संप्रेषण के महत्व
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		लेखन संप्रेषण की प्रक्रिया
		लेखन संप्रेषण की पद्धतियाँ
SUNDAY - 01.09.2024		
6	September (2-7)	लेखन संप्रेषण की प्रक्रिया की प्रथम असाइनमेंट
		इकाई 2- व्यावसायिक लेखन कौशल
SUNDAY - 08.09.2024		
7	September (9-14)	लेखन कौशल के गुण
		लेखन संप्रेषण से अभिप्राय एवं विविध आयाम की लिखित परीक्षा
SUNDAY - 15.09.2024		
8	September (16-21)	लेखन कौशल के तत्व
		पत्राचार व्यक्तिगत और आधिकारिक
SUNDAY - 22.09.2024		

HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	लेखन संप्रेषण के महत्व की लिखित परीक्षा व्यावसायिक रिपोर्ट लेखन
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)	संवाद लेखन निबंध लेखन
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	लेखन कौशल के गुण व तत्व की लिखित परीक्षा 17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
SUNDAY - 20.10.2024		
13	October (21-26)	निबंध लेखन प्रतियोगिता का आयोजन इकाई 3 -समाचार लेखन
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	संपादकीय लेखन व शब्द संपदा अनुवाद सिद्धांत और व्यवहार
SUNDAY - 10.11.2024		
15	November (11-16)	समाचार लेखन की द्वितीय असाइनमेंट इकाई 4 -व्यावहारिक हिंदी व्याकरण और उपयोग के महत्वपूर्ण पहलू 15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024		
16	November (18-22)	व्याकरण व्यवहार एवं वाक्य परिचय पुनर्रचना:संक्षेपण,भाव पल्लवन
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 (III - Semester)

Name of the Paper:- Cell Biology

Class: B.Sc. II Biotechnology

Name of the Teachers (Section W Dr. Harpreet Kaur

WEEK	DATE	TOPICS
1	August (1-3)	
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		Cell Theory
		Comparison between plant and animal cell
		Structure and function of organelles
SUNDAY - 11.08.2024		
3	August (12-17)	
		15.08.2024 - INDEPENDENCE DAY
		Structure and function of organelles
		Structure and function of organelles
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Catalysis
		Catalysis
		Biogenesis of Cellular organelles
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Biogenesis of Cellular organelles
		Biogenesis of Cellular organelles
		Assignment
SUNDAY - 01.09.2024		

6	September (2-7)	
		Structure and function of Prokaryotic cell and its components
		Structure and function of Prokaryotic cell and its components
SUNDAY - 08.09.2024		
7	September (9-14)	
		Structure and function of Prokaryotic cell and its components
		Structure and function of Prokaryotic cell and its components
SUNDAY - 15.09.2024		
8	September (16-21)	
		Membrane Structure and Transport
		Models of membrane structure
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		Models of membrane structure
		Membrane Proteins and Carbohydrates
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Solute Transport by simple Diffusion
		Solute Transport by simple Diffusion
SUNDAY - 06.10.2024		

11	October (7-11)	
		Facilitated Diffusion
		Active transport
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Cell Cycle
		Components of cell cycle
SUNDAY - 20.10.2024		
13	October (21-26)	
		Control system
		Test
		Assignment
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		Intracellular and Extracellular control of cell division
		Intracellular and Extracellular control of cell division
		Intracellular and Extracellular control of cell division
SUNDAY - 10.11.2024		
15	November (11-16)	
		Programmed Cell Death
		15.11.2024 - GURU NANAK DEV JAYANTI
		Programmed Cell Death
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 (III - Semester)

Name of the Paper:- Chemistry

Class: B.Sc. (II)

Name of the Teachers (Section Wise) : Vasundhara Madaan

WEEK	DATE	TOPICS
1	August (1-3)	s-block elements: Introduction, General characteristics
		Salient features of hydrides of s-block elements
		Salient features of oxides, halides, hydroxides of s-block elements
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		Structure, preparation and properties of Diborane
		Structure, preparation and properties of Borazine
		Catenation and carbides (structural aspects)
SUNDAY - 11.08.2024		
3	August (12-17)	
		15.08.2024 - INDEPENDENCE DAY
		Fluorocarbons, silicates (structural aspects)
		Structure of oxides of Nitrogen and Phosphorous, structure of white and red phosphorus
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Structure of oxyacids of Nitrogen, phosphorous, sulphur and chlorine and comparison of acidic strength of oxyacids.
		Low chemical reactivity of noble gases, chemistry of xenon
		Structure and bonding in fluorides, oxides and oxyfluorides of xenon.
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Electrolytic conduction, factors affecting electrolytic conduction, specific conductance,
		Molar conductance, equivalent conductance and relation among them, their variation with concentration.
		Numericals
SUNDAY - 01.09.2024		
6	September (2-7)	
		Kohlrausch's law: Introduction, Application of Kohlrausch's Law in calculation of conductance of weak electrolytes at infinite dilution
		Numericals
		Concepts of pH and pKa, Buffer solution, Buffer action

SUNDAY - 08.09.2024		
7	September (9-14)	
		Henderson – Hazel equation, Buffer mechanism of buffer action
		Reversible & irreversible cells, Calculation of thermodynamic quantities of cell reaction (ΔG , ΔH & K)
		Types of reversible electrodes – metal- metal ion, gas electrode, metal – insoluble salt- anion and redox electrodes
SUNDAY - 15.09.2024		
8	September (16-21)	
		Nernst equation, Standard Hydrogen electrode, reference electrodes
		Applications of EMF measurement in solubility product and potentiometric titrations using glass electrode
		Alkynes: Nomenclature and its structure. Methods of formation: using Calcium carbide, dehydrohalogenation, Kolbe’s electrolysis.
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		Chemical reactions: Mechanism of electrophilic and nucleophilic addition reactions, formation of metal acetylides
		Addition of bromine and alkaline $KMnO_4$, ozonolysis. Acidity of alkynes
		Concept of isomerism: Structural and Stereoisomerism. Symmetry elements
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Enantiomers, optical activity, properties of enantiomers, chiral and achiral molecules (up-to 2 asymmetric centres)
		Diastereomers, threo- and erythronomenclature, meso-compounds, Relative and absolute configuration
SUNDAY - 06.10.2024		
11	October (7-11)	
		Sequence rules, R and S system of nomenclature. Cis- Trans isomerism, E & Z system of nomenclature,
		Conformational analysis of ethane and n-butane, conformations of cyclohexane, axial and equatorial bonds. Newman and Sawhorse projection formulae
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		

12	October (14-19)	
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Benzene: Nomenclature, Aromatic nucleus and side chain, Huckels' rule of aromaticity
		Aromatic electrophilic substitution, mechanism of nitration, halogenation, sulphonation, and Friedel- Crafts reaction
SUNDAY - 20.10.2024		
13	October (21-26)	
		Energy profile diagrams. Activating, deactivating substituents and orientation
		Alkyl halides: Nomenclature, methods of formation: from alkenes and alcohol
		Nucleophilic substitution reactions of alkyl halides, SN2 and SN1 reactions with energy profile diagrams
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		Aryl halides: Methods of formation: halogenation, Sandmeyer reaction
		The addition-elimination, and the eliminationaddition mechanisms of nucleophilic aromatic substitution reactions
		The addition-elimination, and the elimination addition mechanisms of nucleophilic aromatic substitution reactions
SUNDAY - 10.11.2024		
15	November (11-16)	
		Relative reactivities of alkyl halides vs allyl, vinyl, and aryl halides
		15.11.2024 - GURU NANAK DEV JAYANTI
		Activity
SUNDAY - 17.11.2024		
16	November (18-22)	
		Sample papers
		Sample papers
		Sample papers
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) IIIrd

Name of the Paper:- Operating system (Con CLASS:B.SC-II Year

Name of the Teachers (Section Wise) : MS. NEERU(COMPUTER SCI..)

WEEK	DATE	TOPICS
1	August (1-3)	Introductory Concepts: Operating System, Functions and Characteristics,
		Historical Evolution of Operating Systems, Operating System Structure.
		Types of Operating System: Real time, Multiprogramming,
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		Multiprocessing, Batch processing.
		Operating System Services, Operating System Interface, Service System Calls, System Programs
SUNDAY - 11.08.2024		
3	August (12-17)	
		15.08.2024 - INDEPENDENCE DAY
		Process Management: Process Concepts, Operations on Processes,
		CPU Scheduling: Scheduling Criteria, Levels of Scheduling,
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Process States and Process Control Block. Inter-Process communication
		Scheduling Algorithms, Multiple Processor Scheduling,
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Algorithm Evaluation.
		Synchronization: Critical Section Problem, Semaphores, Classical Problem of Synchronization, Monitors.
SUNDAY - 01.09.2024		

6	September (2-7)	
		Deadlocks: Deadlock Characterization, Methods for Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection and Recovery.
		Assignment 1
SUNDAY - 08.09.2024		
7	September (9-14)	
		Memory Management Strategies: Memory Management of Single User and Multiuser Operating System,
		Test-1
SUNDAY - 15.09.2024		
8	September (16-21)	
		Partitioning, Swapping, Contiguous Memory Allocation, Paging and Segmentation;
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		Virtual Memory Management: Demand Paging, Page Replacement Algorithms, Thrashing.
		Implementing File System:
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		File System Structure, TEST 2
SUNDAY - 06.10.2024		

11	October (7-11)	
		File System Implantation, file operations, Type of Files, Directory
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Implementation, Allocation Methods, Free Space Management.
SUNDAY - 20.10.2024		
13	October (21-26)	
		Disk Scheduling algorithm- SSTF, Scan, C- Scan,
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		Look, C-Look. SSD Management. Assignment.-2
SUNDAY - 10.11.2024		
15	November (11-16)	
		Revision.
		15.11.2024 - GURU NANAK DEV JAYANTI
		Revision.
SUNDAY - 17.11.2024		
16	November (18-22)	
		Revision.
		Revision.
		Revision.
23.11.2024 - Examinations		

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LESSON PLAN

SESSION 2024-25 (01.08.2024 to 22.11.2024)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semes IIIrd Sem

Name of t Plant Physiology B.Sc Iind yr

Name of the Teachers (Section W Dr.Nidhan Singh

WEEK	DATE	TOPICS
1	August (1-3)	
SUNDAY - 04.08.2024		
2	August (5-10)	Plant water relations
		Plant water relations: absorption
		07.08.2024 - TEEJ
SUNDAY - 11.08.2024		
3	August (12-17)	water potential
		transpiration
		role of micro and macro nutrients
		15.08.2024 - INDEPENDENCE DAY
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		role of micro and macro nutrients
		role of micro and macro nutrients
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Photosynthesis
		Photosynthesis
SUNDAY - 01.09.2024		

6	September (2-7)	Photosynthesis
		Respiration
		Respiration
SUNDAY - 08.09.2024		
7	September (9-14)	Biosynthesis
		mechanism of action and uses of auxin
		mechanism of action and uses of gibberellin
SUNDAY - 15.09.2024		
8	September (16-21)	mechanism of action and uses of cytokinin
		mechanism of action and uses of abscisic acid
		mechanism of action and uses of ethylene
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	Lipid metabolism
		Lipid metabolism
		Nitrogen metabolism
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	Structure, function and mechanisms of action of phytochromes
		Structure, function and mechanisms of action of phytochromes
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
SUNDAY - 06.10.2024		

11	October (7-11)	stomatal movement
		stomatal movement
		photoperiodism and biological clocks
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	photoperiodism and biological clocks
		mechanism of flowering
		mechanism of flowering
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
SUNDAY - 20.10.2024		
13	October (21-26)	Concepts of plant growth
		Concepts of plant growth
		factors affecting germination
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	factors affecting germination
		factors affecting germination
		dormancy of seeds
SUNDAY - 10.11.2024		
15	November (11-16)	Assignments
		dormancy of seeds
		physiological and biochemical changes associated with senescence and abscission
		15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024		
16	November (18-22)	physiological and biochemical changes associated with senescence and abscission
		test
		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 (III - Semester)

Name of the Paper:- Differential Equation- I

Class: B.Sc. 2 Year Major

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

WEEK	DATE	TOPICS
1	August (1-3)	Differential Equation and its order and degree
SUNDAY - 04.08.2024		
2	August (5-10)	Solutions of 1st order and 1st Degree Differential Equation, Exact Differential Equation
		07.08.2024 - TEEJ
		Integrating Factor and Equations Solvable for x,y and p
SUNDAY - 11.08.2024		
3	August (12-17)	Lagranges Equations
		15.08.2024 - INDEPENDENCE DAY
		Clairauts form and Singular Solutions
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Orthogonal Trajectories of one - parameter families of curves in a plan
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Solution of Linear Ordinary Differential Equation WITH Constant Coefficients
SUNDAY - 01.09.2024		
6	September (2-7)	Linear Non- Homogeneous Differential Equations and Linear Differential of Second Order with variable coefficients
SUNDAY - 08.09.2024		
7	September (9-14)	Method of Reduction of order, Method of Undetermined coefficients, Method of variation of parameters, Cauchy- Eulers Equation
SUNDAY - 15.09.2024		

8	September (16-21)	Solution of Simultaneous Differential Equation , Total Differential Equ
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	Genesis of Partial Differential Equation and Concept of linear and non-linear PDE
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5))	Complete solution, General solution and singular solution of PDE
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Linear PDE of 1st order
SUNDAY - 06.10.2024		
11	October (7-11)	Lagranges method for PDE
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	Integral surfaces passing through a given curve
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Surface orthogonal to a given system of surfaces
SUNDAY - 20.10.2024		
13	October (21-26)	Compatible systems of 1st order equations, Charpits method
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	Special type of 1st order PDE and Jacobis method
SUNDAY - 10.11.2024		

15	November (11-16)	Second order partial differential equation with constant coefficients
		15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024		
16	November (18-22)	Revision of Syllabus and 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 / III / V - Semester) III

Name of the Paper:- Thermodynamics & Statistical Physics

Name of the Teachers (Section Wise) : MS SONIA

WEEK	DATE	TOPICS
1	August (1-3)	
SUNDAY - 04.08.2024		
2	August (5-10)	THERMODYNAMICS-I Thermodynamic-systems, variables and equation of state, thermal equilibrium, Zeroth law of thermodynamics; Concept of heat, work and its sign (work done- by the system on the system) & its path dependence, First law of thermodynamics- its significance and limitations, internal energy as a state function, different types of process-isochoric process, isobaric process, adiabatic process, isothermal process, cyclic process,
07.08.2024 - TEEJ		
SUNDAY - 11.08.2024		
3	August (12-17)	Second law of thermodynamics and its significance, Carnot theorem; Absolute scale of temperature, Absolute Zero and magnitude of each division on work scale and perfect gas scale, Joule's free expansion, Joule Thomson effect, Joule-Thomson (Porous plug) experiment, conclusions and explanation, analytical treatment of Joule Thomson effect
15.08.2024 - INDEPENDENCE DAY		
SUNDAY - 18.08.2024		
19.08.2024 - RAKSHABANDHAN		
4	August (19-24)	Entropy, calculations of entropy of reversible and irreversible process, T-S diagram, entropy of a perfect gas
SUNDAY - 25.08.2024		
26.08.2024 - JANAMASHTMI		
5	August (26-31)	Entropy, calculations of entropy of reversible and irreversible process, T-S diagram, entropy of a perfect gas, Nernst heat law (third law of thermodynamics); Liquefaction of gases, (oxygen, air, hydrogen and helium)
SUNDAY - 01.09.2024		

6	September (2-7)	solidification of helium below 4K, Cooling by adiabatic demagnetization, Numericals
		THERMODYNAMICS-II
		Derivation of Clausius-Clapeyron and Clausius latent heat equations and their significance,
SUNDAY - 08.09.2024		
7	September (9-14)	specific heat of saturated vapours, phase diagram and triple point of a substance, development of Maxwell thermodynamical relations
SUNDAY - 15.09.2024		
8	September (16-21)	Thermodynamical functions: Internal energy (U), Helmholtz function (F), Enthalpy (H), Gibbs function (G) and the relations between them, derivation of Maxwell thermodynamical relations from thermodynamical functions, Application of Maxwell relations: relations between two specific heats of gas
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	Derivation of Clausius-Clapeyron and Clausius equation, variation of intrinsic energy with volume for (i) perfect gas (ii) Vander wall gas (iii) solids and liquids, derivation of Stefan's law, adiabatic compression and expansion of gas & deduction of theory of Joule Thomson effect, Numericals
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	Statistical Physics-I Distribution of N (for N= 2, 3, 4) distinguishable and indistinguishable particles in two boxes of equal size, microstates and macrostates, thermodynamical probability,
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
SUNDAY - 06.10.2024		

11	October (7-11)	constraints and accessible states, statistical fluctuations, general distribution of distinguishable particles in compartments of different sizes, β -parameter, entropy and probability; Concept of phase space, division of phase space into cells,
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	postulates of statistical mechanics; Classical and quantum statistics, basic approach to these statistics, Maxwell-Boltzmann statistics applied to an ideal gas in equilibrium-energy distribution law, Maxwell's distribution of speed & velocity (derivation required),
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
SUNDAY - 20.10.2024		
13	October (21-26)	most probable speed, average and r.m.s. speed, mean energy for Maxwellian distribution
		Statistical Physics-II Dulong and Petit Law, derivation of Dulong and Petit law from classical physics; Need of Quantum statistics- classical versus quantum statistics, Bose-Einstein energy distribution Law,
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	Application of B. E. Statistics to Planck's radiation law, degeneracy and B. E. condensation; Fermi-Dirac energy distribution Law, F. D. gas and degeneracy,
SUNDAY - 10.11.2024		
15	November (11-16)	Fermi energy and Fermi temperature; F. D. energy distribution Law for electron gas in metals, zero point energy, average speed (at 0 K) of electron gas
		Numericals
		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 III Semester)

Name of the Paper:- Cell Biology and Animal Genetics Class B.Sc. 3rd

Name of the Teachers : Pawan Kumar

WEEK	DATE	TOPICS
1	August (1-3)	
SUNDAY - 04.08.2024		
2	August (5-10)	Plasma Membrane
		Plasma Membrane
		07.08.2024 - TEEJ
SUNDAY - 11.08.2024		
3	August (12-17)	Plasma Membrane
		Plasma Membrane
		Endoplasmic Reticulum
		15.08.2024 - INDEPENDENCE DAY
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Endoplasmic Reticulum
		Golgi Complex
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Golgi Complex
		Ribosomes
SUNDAY - 01.09.2024		

6	September (2-7)	Ribosomes
		Lysosomes
		Lysosomes
SUNDAY - 08.09.2024		
7	September (9-14)	Mitochondria
		Mitochondria
		Mitochondria
SUNDAY - 15.09.2024		
8	September (16-21)	Class Test
		Cilia
		Flagella
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	Nucleus
		Nucleus
		Nucleus
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5))	Nucleus
		Nucleus
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
SUNDAY - 06.10.2024		

11	October (7-11)	Mendel's Laws
		Mendel's Laws
		Linkage and recombination
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	Linkage and recombination
		Cell cycle
		Sex Determination
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
SUNDAY - 20.10.2024		
13	October (21-26)	Sex Determination
		Sex Linked Inheritance
		Sex Linked Inheritance
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November 9)	(4- Class Test
		Multiple Allelelism
		Multiple Allelelism
SUNDAY - 10.11.2024		
15	November (11-16)	Human Genetics
		Human Genetics
		Revision
		15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024		
16	November (18-22)	Applied Genetics
		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 (III - Semester) 3rd

Name of the Paper:- MDC - C programming Class: B.Com. II Year

Name of the Teachers (Section Wise MOHIT

WEEK	DATE	TOPICS
1	August (1-3)	Overview of C: History, Importance, Structure of C Program, Character Set, Constants and Variables, Identifiers and Keywords, Data Types, Assignment Statement,
SUNDAY - 04.08.2024		
2	August (5-10)	07.08.2024 - TEEJ output functions viz. printf(), putchar(), puts(). Constant Input/output: Unformatted & Formatted I/O Function, Input Functions viz. scanf(), getch(), getche(), getchar(), gets(),
SUNDAY - 11.08.2024		
3	August (12-17)	Operators & Expression: Arithmetic, Relational, Logical, Bitwise, Unary, Assignment, Conditional Operators and Special 15.08.2024 - INDEPENDENCE DAY Operators Operator Hierarchy & Associativity. Arithmetic Expressions, Evaluation of Arithmetic Expression, Type conversion casting
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN Assignment-1 Decision making with if statement, if-else statement, nested if Decision making with if statement, if-else statement, nested if Revision
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI statement, else-if ladder, switch and break statement, switch and break statement, goto statement Looping:
SUNDAY - 01.09.2024		

6	September (2-7)	
		Operators & Expression: Arithmetic, Relational, Logical, Bitwise, Unary, Assignment, Conditional Operators and Special Operators Operator
		Revision
		Test-1
Conditional Operators and Special Operators Operator		
SUNDAY - 08.09.2024		
7	September (9-14)	
		Functions: definition, prototype, function call, passing arguments to a function: function call, passing arguments to a function:
SUNDAY - 15.09.2024		
8	September (16-21)	
		call by value, call by value, function call, passing arguments to a function: function call, passing arguments to a function:
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		call by reference, recursive functions.
		Lab
recursive functions.		
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Arrays
Arrays		
SUNDAY - 06.10.2024		

11	October (7-11)	
		Definition, types
		Definition, types
Lab		
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	
		Initialization,
		JAYANTI/MAHARAJA AJMIDH JAYANTI
		Initialization,
lab		
SUNDAY - 20.10.2024		
13	October (21-26)	
		Assignment-2
		multidimensional
		multidimensional
Lab		
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		Processing on Arrays
		Processing on Arrays
		Lab
Test-2		
SUNDAY - 10.11.2024		
15	November (11-16)	
		Revision
		Revision
		15.11.2024 - GURU NANAK DEV JAYANTI
Revision		
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 (III Semester)

Name of the Paper:- MDC - Ornamental Plants and Propagation Class: B.Sc. II Year

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
		History of gardens in India; terrace gardening terrace gardening; terrace gardening;
SUNDAY - 11.08.2024		
3	August (12-17)	
		popular gardens of India
		15.08.2024 - INDEPENDENCE DAY popular gardens of India Practical
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Types of gardens: Types of gardens: Types of gardens: Practical
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Types of gardens: Types of gardens: Types of gardens: Practical
SUNDAY - 01.09.2024		
6	September (2-7)	
		Significance of Shrubs Significance of trees,palms Significance of ferns, cycads
		Practical
SUNDAY - 08.09.2024		
7	September (9-14)	
		cacti and succulents climbers, creepers, indoorplants, water plants
		Practical
SUNDAY - 15.09.2024		

8	September	(16-21)	
			bonsai plants as ornamentals.
			Flower and seed production ; protected cultivation of ornamentals
			Practical
SUNDAY - 22.09.2024			
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY			
9	September	(24-28)	
			present position and scope of floriculture in India.
			present position and scope of floriculture in India.
			present position and scope of floriculture in India.
			Practical
SUNDAY - 29.09.2024			
10	September (30) October (1, 4-5)		
			02.10.2024 - MAHATMA GANDHI JAYANTI
			03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
			Vegetative propagation ;Introduction
			Practical
SUNDAY - 06.10.2024			
11	October	(7-11)	
			Principles and practices of clone selection
			-principles and practices of clone selection;
			Practical
HOLIDAY 12.10.2024 - (DUSSEHRA)			
SUNDAY - 13.10.2024			
12	October	(14-19)	
			Techniques of cutting
			17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
			Techniques of cutting
			Practical
SUNDAY - 20.10.2024			
13	October	(21-26)	
			budding
			budding
			grafting
			Practical
DIWALI BREAK - 27.10.2024 - 03.11.2024			

14	November (4-9)	
		grafting layering; layering; Test
SUNDAY - 10.11.2024		
15	November (11-16)	
		propagationby specialized stem sand roots propagationby specialized stem sand roots
		15.11.2024 - GURU NANAK DEV JAYANTI
		Practical
SUNDAY - 17.11.2024		
16	November (18-22)	
		propagationby specialized stem sand roots Assignment
		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 (III - Semester)

Name of the Paper:- MDC Maths

Class: IInd Year (MDC)

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

WEEK	DATE	TOPICS
1	August (1-3)	The concept of a set, Types of sets, Operations on sets, Venn diagram, De-Morgan's laws.
SUNDAY - 04.08.2024		
2	August (5-10)	The concept of a function, Elementary functions.
		07.08.2024 - TEEJ
		Elementary functions and their graphical representation.
SUNDAY - 11.08.2024		
3	August (12-17)	Solution of simple quadratic and cubic equations.
		15.08.2024 - INDEPENDENCE DAY
		Solutions of simultaneous linear equations upto three variables.
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Arithmetic progression, Geometric progression.
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		The concept of differentiation, Differentiation of simple functions, Second order differentiation.
SUNDAY - 01.09.2024		
6	September (2-7)	Maxima and Minima of a function, Use of Differentiation for solving problems related to real life situations.
SUNDAY - 08.09.2024		
7	September (9-14)	Integration of simple algebraic, Trigonometry and Exponential functions.
SUNDAY - 15.09.2024		

8	September (16-21)	Frequency distribution and cumulative frequency distribution, Diagrammatic and graphical presentation of data.
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	Construction of bar , Pie diagrams, Histograms, Frequency polygon, Frequency curve and Ogives.
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	Arithmetic mean, Median, Mode, Geometric mean.
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Harmonic mean for ungrouped and grouped data.
SUNDAY - 06.10.2024		
11	October (7-11)	Concept of dispersion, Mean deviation and its coefficient, Range, Variance and its coefficient, Standard deviation.
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	Concept and types of correlation, Methods of finding correlation : Scatter diagram.
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Karl Pearson's coefficient of correlation.
SUNDAY - 20.10.2024		
13	October (21-26)	Rank correlation, Principle of least square, Fitting of straight line.
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	Two lines of regression, Regression coefficients.
SUNDAY - 10.11.2024		
15	November (11-16)	Solution of differential equations of first order and degree one with variable separable.
		15.11.2024 - GURU NANAK DEV JAYANTI
		Revision
SUNDAY - 17.11.2024		
16	November (18-22)	Revision of syllabus and 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 (III - Semester)

Name of the Paper:- MDC Biology

Class: Biology II Year

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

WEEK	DATE	TOPICS
1	August (1-3)	
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		Sexual Reproduction in Flowering Plants
		Sexual Reproduction in Flowering Plants
		Sexual Reproduction in Flowering Plants
SUNDAY - 11.08.2024		
3	August (12-17)	
		Human Reproduction
		15.08.2024 - INDEPENDENCE DAY
		Human Reproduction
		Human Reproduction
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Human Reproduction
		Assignment
		Genetics
		Heredity and variation
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Heredity and variation
		Heredity and variation
		Molecular Basis of Inheritance
		Molecular Basis of Inheritance
SUNDAY - 01.09.2024		

6	September (2-7)	
		Evolution
		Evolution
		Evolution
SUNDAY - 08.09.2024		
7	September (9-14)	
		Human Health and Disease
		Human Health and Disease
		Human Health and Disease
SUNDAY - 15.09.2024		
8	September (16-21)	
		Microbes in Human Welfare
		Microbes in Human Welfare
		Microbes in Human Welfare
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		Assignment
		Test
		Revision
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Organisms and Population
SUNDAY - 06.10.2024		

11	October (7-11)	
		Organisms and Population
		Biodiversity and its conservation
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	
		Biodiversity and its conservation
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Biodiversity and its conservation
		Biodiversity Concept
SUNDAY - 20.10.2024		
13	October (21-26)	
		Biodiversity patterns and importance
		Biodiversity patterns and importance
		Loss of Biodiversity
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		Biodiversity Conservation
		Hotspots
		Endangered organisms
SUNDAY - 10.11.2024		
15	November (11-16)	
		Extinction
		Red Data Book
		15.11.2024 - GURU NANAK DEV JAYANTI
		Sacred Groups
SUNDAY - 17.11.2024		
16	November (18-22)	
		Biosphere Reserves and National parks
		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 III Semester)

Name of the Paper:-

Basics of Zoology-III Class B.Sc. 3rd (MDC Zoology)

Name of the Teachers :

Pawan Kumar

WEEK	DATE	TOPICS
1	August (1-3)	
		Human Skeleton
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		Human Skeleton
		Human Skeleton
SUNDAY - 11.08.2024		
3	August (12-17)	
		15.08.2024 - INDEPENDENCE DAY
		Human Skeleton
SUNDAY - 18.08.2024		
4	August (19-24)	
		19.08.2024 - RAKSHABANDHAN
		ABO Blood Groups
SUNDAY - 25.08.2024		
5	August (26-31)	
		26.08.2024 - JANAMASHTMI
		Human Cell and Chromosomes
		Human Cell and Chromosomes
SUNDAY - 01.09.2024		
6	September (2-7)	
		Practicals
		Practicals
		Practicals
SUNDAY - 08.09.2024		
7	September (9-14)	
		Sex Determination
		Sex Determination
		Practicals
SUNDAY - 15.09.2024		

8	September (16-21)	
		Respiration
		Respiration
		Respiration
		Respiration
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		Respiration
		Respiration
		Respiration
		Respiration
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Practicals
		Practicals
SUNDAY - 06.10.2024		
11	October (7-11)	
		Dental Formula
		Dental Formula
		Practicals
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Darwinism
		Darwinism
SUNDAY - 20.10.2024		
13	October (21-26)	
		Class Test
		Concept of Evolution
		Concept of Evolution
		Concept of Evolution
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		Human Evolution
		Hunan Evolution
		Practicals
		Practicals
SUNDAY - 10.11.2024		

15	November (11-16)	
		Revision
		Revision
		15.11.2024 - GURU NANAK DEV JAYANTI
Revision		
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 (III Semester)

Name of the Paper:- Plant Hybridization

Class: B.Sc IInd Year

Name of the Teachers (Section W Dr.Nidhan Singh)

WEEK	DATE	TOPICS
1	August (1-3)	General objectives of plant breeding Major achievements, Future Prospects
		General objectives of plant breeding Major achievements, Future Prospects
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		Self-incompatibility- Definition, classification
		Practical
		Practical
SUNDAY - 11.08.2024		
3	August (12-17)	
		15.08.2024 - INDEPENDENCE DAY
		heteromorphic SI, homomorphic SI i.e. gametophytic SI and sporophytic SI
		heteromorphic SI, homomorphic SI i.e. gametophytic SI and sporophytic SI
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		heteromorphic SI, homomorphic SI i.e. gametophytic SI and sporophytic SI
		heteromorphic SI, homomorphic SI i.e. gametophytic SI and sporophytic SI
		Practical
		Practical
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		utilization of self-incompatibility in plant breeding
		utilization of self-incompatibility in plant breeding
		utilization of self-incompatibility in plant breeding
		Practical
SUNDAY - 01.09.2024		

6	September (2-7)	
		Definition and concept of population genetics
		random mating population
		Practical
SUNDAY - 08.09.2024		
7	September (9-14)	
		random mating population
		gene and genotypic frequency
		Practical
SUNDAY - 15.09.2024		
8	September (16-21)	
		Hardy-Weinberg law- Law, its validity, factors affecting gene frequency
		Heterosis- Definition, heterosis and hybrid vigour
		Practical
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		effects and estimation of heterosis
		genetic basis/theories of heterosis
		Practical
		Practical
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5))	
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
		Practical
SUNDAY - 06.10.2024		

11	October (7-11)	
		Hybridization techniques- Definition, aim and objectives types of hybridization, steps and procedure of hybridization programme choice of parents, evaluation of parents, emasculatation
		Practical
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	
		different methods, bagging, tagging, pollination , harvesting
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
		Practical
		Practical
SUNDAY - 20.10.2024		
13	October (21-26)	
		storing of the F1 seeds and selfing, consequences of hybridization Wide hybridization- Definition, types, main features, interspecific and intergeneric hybridization, its examples,
		incompatibility barriers for wide hybridization,
		Practical
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		techniques for overcoming incompatibility barriers, achievements
		Methods of breeding in self-pollinated crops- Pure line selection, mass selection, pedigree method, bulk method
		Practical
		Practical
SUNDAY - 10.11.2024		
15	November (11-16)	
		Methods of breeding in cross pollinated crops- list of plant breeding methods for cross pollinated crops
		Methods of breeding in cross pollinated crops- list of plant breeding methods for cross pollinated crops
		15.11.2024 - GURU NANAK DEV JAYANTI
		Practical
SUNDAY - 17.11.2024		
16	November (18-22)	
		Assignment
		test
		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 (III - Semester)

Name of the Paper:- SEC

Class: B.Sc. II

Name of the Teachers (Section Wise) : Era Garg

WEEK	DATE	TOPICS
1	August (1-3)	
SUNDAY - 04.08.2024		
2	August (5-10)	Waste: Classification, generation and characterization
		Basic aspects of solid waste management generation , handling, storage and processing
		07.08.2024 - TEEJ
SUNDAY - 11.08.2024		
3	August (12-17)	Collection of solid waste, transfer and transport, processing technique
		Ultimate disposal of solid waste, definition ,resources, effects of
		15.08.2024 - INDEPENDENCE DAY
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Disposal and management techniques: physical , chemical, physico chemical and thermal treatment
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Biomedical waste: definition, categories and management
SUNDAY - 01.09.2024		

6	September (2-7)	Sources and management of E-waste, disposal of solid waste- sanitary land filling
		Secure land filling, incineration, types of incinerators
SUNDAY - 08.09.2024		
7	September (9-14)	Plasma pyrolysis, composting, vermi-composting
		Principles of industrial waste management-sources of pollution and properties
SUNDAY - 15.09.2024		
8	September (16-21)	Manufacturing processes , flow sheets
		Characteristics and composition of wastes including waste reduction
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	Treatment and disposal methods for food industries: sugar
SUNDAY - 29.09.2024		
10	September (30) October (1, 4-5)	Treatment and disposal methods for material industries:
		Metal plating and petroleum refineries
		02.10.2024 - MAHATMA GANDHI JAYANTI
		03.10.2024 - (MAHARAJA AGRASEN JAYANTI)
SUNDAY - 06.10.2024		
11	October (7-11)	Role of biotechnology in waste minimization
		Recovery of by-products and raw materials from wastewater conversion
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		

12	October (14-19)	waste recovery and reuse
		Reclamation by groundwater recharge
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
SUNDAY - 20.10.2024		
13	October (21-26)	Agriculture reuse of effluent
		Sludge as fertilizer
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	Biomass for energy
		Metal recovery. Bioscrubbing
SUNDAY - 10.11.2024		
15	November (11-16)	Biological treatment
		Biological methods for waste processing: Biomethanation
		15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024		
16	November (18-22)	Biological methods for waste processing: Biodiesel
		Biological methods for waste processing: Biohydrogen
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 (III - Semester)

Name of the Paper:- Microtomy[SEC]

Class: 2nd Year

Name of the Teachers (Section W Mrs.Neelam Thareja

WEEK	DATE	TOPICS
1	August (1-3)	Microtomy -Introduction , definition
SUNDAY - 04.08.2024		
2	August (5-10)	
		07.08.2024 - TEEJ
		History and applications of Microtomy
SUNDAY - 11.08.2024		
3	August (12-17)	
		Types of Microtomes
		15.08.2024 - INDEPENDENCE DAY
SUNDAY - 18.08.2024		
4	August (19-24)	19.08.2024 - RAKSHABANDHAN
		Types of Microtomes
		Types of Microtomes
SUNDAY - 25.08.2024		
5	August (26-31)	26.08.2024 - JANAMASHTMI
		Collection and Transportation of Sample for Histological examination
		Collection and Transportation of Sample for Histological examination
SUNDAY - 01.09.2024		

6	September (2-7)	
		Basic concepts of Fixation
		Basic concepts of Fixation
SUNDAY - 08.09.2024		
7	September (9-14)	
		Various types of Fixatives used in Microtomy
		Process of Fixation
SUNDAY - 15.09.2024		
8	September (16-21)	
		Process of Fixation
		Section Cutting
SUNDAY - 22.09.2024		
HOLIDAY 23.09.2024 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
9	September (24-28)	
		Preparation Of Stained Slides
		Preparation Of Stained Slides
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)	
		Preparation Of Stains and Solvents
		Test and Assignment
HOLIDAY 12.10.2024 - (DUSSEHRA)		
SUNDAY - 13.10.2024		
12	October (14-19)	
		General Staining Procedure for Paraffin embedded tissue ,Nuclear and Cytoplasmic stains
		17.10.2024 - MAHARISHI VALMIKI JAYANTI/MAHARAJA AJMIDH JAYANTI
SUNDAY - 20.10.2024		
13	October (21-26)	
		General Staining Procedure for Paraffin embedded tissue ,Nuclear and Cytoplasmic stains
		Eosin Staining
DIWALI BREAK - 27.10.2024 - 03.11.2024		
14	November (4-9)	
		Mercury Bromophenol Blue Staining
		Mercury Bromophenol Blue Staining
SUNDAY - 10.11.2024		
15	November (11-16)	
		Toulidine Blue Staining
		Toulidine Blue Staining
		15.11.2024 - GURU NANAK DEV JAYANTI
SUNDAY - 17.11.2024		
16	November (18-22)	
		Commonly used Mountants in Microtomy
		Revision
23.11.2024 - Examinations		