

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (IIIrd Semester)

Name of the Paper: Biology and Diversity of seed Plants

Class: B.Sc.II

Name of the Teachers (Section Wise) : Nidhan Singh

WEEK	DATE	TOPICS
1	September (6-10)	Seed Plants-Intro
		Seed Plants-Diversity
SUNDAY - 11.09.2022		
2	September (12-17)	General Characters-Gymnosperms
		General Characters-Gymnosperms
		Classification of Gymnosperms
SUNDAY - 18.09.2022		
3	September (19-24)	Classification of Gymnosperms
		Classification of Gymnosperms
		Geological Time Table
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	Geological Time Table
		Heterospory to Seed Habit
		Evolution of Seed Habit
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	Evolution of Seed Habit
		Introduction to Palaeobotany
		Fossils and Fossilization
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	Fossils and Fossilization
		Study and Importance of Fossils
		Study and Importance of Fossils
SUNDAY - 16.10.2022		
7	October (17-21)	Lygionopteris
		Williamsonia
		Cycadaeioidea
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	Cycas- Introduction and Morphology
		Cycas - Coralloid Roots, Rachis Anatomy
		Cycas- Reproductive Morphology
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	Cycas- Male Cone Details
		Cycas- Megasporophylls, Male Gametophyte
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	Cycas- Ovule, Female Gametophyte
		Pinus- Introduction and Morphology
		Pinus- Morphology, Shoot types
SUNDAY - 20.11.2022		
12	November (21-26)	Assignments
		Pinus- Anatomy of Needle, Spur
		Pinus- Reproductive Morphology
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	Pinus- Male Cone, Male Gametopyte
		Pinus- Dev. Female Gametophyte
		Ephedra- Morphology
SUNDAY - 04.12.2022		
14	December (5-10)	Ephedra- Anatomy
		Ephedra- Reproduction
		Ephedra- Reproduction
SUNDAY - 11.12.2022		
15	December (12-14)	Ephedra- Reproduction
		Test
		Test

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (IIIrd Semester)

Name of the Paper:- Immunology

Class: BSc II

Name of the Teachers (Section Wise) : Anjushree Saraswal

WEEK	DATE	TOPICS
1	September (6-10)	Introduction of Immune System
		Introduction of Immune System
		Introduction of Immune System
SUNDAY - 11.09.2022		
2	September (12-17)	Immunity
		Immunity
		Immunity
SUNDAY - 18.09.2022		
3	September (19-24)	Cell of immune system
		Cell of immune system
		Cell of immune system
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	Organ of immune system
		Organ of immune system
		Organ of immune system
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	Antigen
		Antigen
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	Antibody
		Antibody
		Antigen antibody interaction
SUNDAY - 16.10.2022		
7	October (17-21)	Antigen antibody interaction
		Immune response
		Immune response
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	Major Histocompatibility Complex
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	Major Histocompatibility Complex
		Major Histocompatibility Complex
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	Assignments
		Complement system
		Complement system
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	Complement system
		Hypersensitivity
		Hypersensitivity
SUNDAY - 20.11.2022		
12	November (21-26)	Vaccine
		Vaccine
		Vaccine
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	Role of MHC molecules
		Role of MHC molecules
		Role of MHC molecules
SUNDAY - 04.12.2022		
14	December (5-10)	Vaccine
		Vaccine
		Test
SUNDAY - 11.12.2022		
15	December (12-14)	Revision

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (IIIrd Semester)

Name of the Paper:-Molecular Biology

Class: B.Sc. II

Name of the Teachers (Section Wise) : Anjushree Saraswal

WEEK	DATE	TOPICS
1	September (6-10)	
		Introduction to molecular aspects of life
		Introduction to molecular aspects of life
SUNDAY - 11.09.2022		
2	September (12-17)	
		DNA as the genetic material
		DNA as the genetic material
		Nucleic acids
SUNDAY - 18.09.2022		
3	September (19-24)	
		Nucleic acids
		Nucleic acids
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	
		Organization of Genomes
		Organization of Genomes
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	
		Eukaryotic genomes
		Eukaryotic genomes
		Eukaryotic genomes
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	
		Euchromatin, heterochromatin
		Euchromatin, heterochromatin
		Chromatin structure (nucleosome)
SUNDAY - 16.10.2022		
7	October (17-21)	
		Chromatin structure (nucleosome)
		Chromatin structure (nucleosome)
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	
		Insertion elements & transposons
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	
		DNA Replication
		DNA Replication
		DNA Replication
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	
		DNA damage and repair
		DNA damage and repair
		Assingment
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	
		Genetic Code
		Transcription in prokaryots
		Transcription in prokaryots
SUNDAY - 20.11.2022		
12	November (21-26)	
		Transcription in prokaryots
		Transcription in Eukaryots
		Transcription in Eukaryots
SUNDAY - 27.11.2022		

13	November (28-30)	
	December (1-3)	Translation/Protein synthesis
		Translation/Protein synthesis
		Translation/Protein synthesis
SUNDAY - 04.12.2022		
14	December (5-10)	
		Regulation of Gene Expression
		Regulation of Gene Expression
		Molecular mechanisms of DNA
SUNDAY - 11.12.2022		
15	December (12-14)	
		Molecular mechanisms of DNA

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (IIIrd Semester)

Name of the Paper:- Plant Anatomy

Class: BSc.II

Name of the Teachers (Section Wise) : Rajni

WEEK	DATE	TOPICS
1	September (6-10)	
		Diversity in plant forms
		Diversity in plant forms
SUNDAY - 11.09.2022		
2	September (12-17)	
		Tissues meristematic and permanent
		Tissues meristematic and permanent
SUNDAY - 18.09.2022		
3	September (19-24)	
		The shoot system
		The shoot system
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	
		Structure of dicot stem
		Structure of Monocot stem
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	
		Cambium Structure and functions
		Cambium Structure and functions
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	
		Secondary growth in dicot stem
		Secondary growth in dicot stem
		Secondary growth in dicot stem
SUNDAY - 16.10.2022		
7	October (17-21)	
		Periderm
		Periderm
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	Periderm
		Anomalous Secondary growth in <i>Dracaena</i>
		Anomalous Secondary growth in <i>Boerhaavia</i>
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	
		Anomalous Secondary growth in <i>Achyranthes</i>
		Phyllotaxy
		Phyllotaxy
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	
		Leaf types simple and compound
		Epidermis and Epidermal appendages
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	
		Epidermis and Epidermal appendages
		Stomata and their morphological types
		Structural modification in storage root
SUNDAY - 20.11.2022		
12	November (21-26)	
		Anatomy of dicot and monocot leaf
		Anatomy of dicot and monocot leaf
		Leaf abscission
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	
		Leaf abscission
		Root system
		Root apical meristem and theories
SUNDAY - 04.12.2022		
14	December (5-10)	
		Secondary growth in dicot Root
		Structure of monocot Root
		Structure of dicot Root
SUNDAY - 11.12.2022		
15	December (12-14)	Structural modification in storage root, Respiratory root, Epiphytic root

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (IIIrd Semester)

Name of the Paper:- INORGANIC CHEMISTRY

Class: BSC II YEAR

Name of the Teachers (Section Wise) : DR MODH ISHAQ

WEEK	DATE	TOPICS
1	September (6-10)	Chemistry of d-Block elements Definition of transition elements, position in the periodic table, General characteristic properties of d-Block elements
SUNDAY - 11.09.2022		
2	September (12-17)	Comparison of properties of 3d elements with 4d and 5d elements with reference only to ionic radii
SUNDAY - 18.09.2022		
3	September (19-24)	Oxidation state, magnetic and spectral properties and stereo chemistry.
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	Stability of various oxidation states and e.m.f (Latimer and Frost diagrams),
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	Structure and properties of some compounds of transition elements- TiO_2 , $VOCl_2$, $FeCl_3$
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	Structure and properties of some compounds of transition elements- CuCl_2 and $\text{Ni}(\text{CO})_4$
SUNDAY - 16.10.2022		
7	October (17-21)	Coordination Compounds Werner's theory of coordination compounds, effective atomic number
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	Chelates, nomenclature of coordination compounds
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	Isomerism in coordination compounds,
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	valence bond theory of transition metal complexes.
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	Non-aqueous solvents Physical properties of solvents
SUNDAY - 20.11.2022		
12	November (21-26)	Types of solvents and their general characteristics,
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	Reactions in non aqueous solvents with reference to liquid NH ₃
SUNDAY - 04.12.2022		
14	December (5-10)	Reactions in non aqueous solvents with reference to liquid SO ₂
SUNDAY - 11.12.2022		
15	December (12-14)	CLASS TEST, RIVISION

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (IIIrd Semester)

Name of the Paper:- ORGANIC CHEMISTRY

Class: BSC II

Name of the Teachers (Section Wise) : PROF. ERA GARG

WEEK	DATE	TOPICS
1	September (6-10)	Alcohols Monohydric alcohols ,nomenclature, methods of formation by reduction of aldehydes, ketones, carboxylic acids and esters. Hydrogen bonding. Acidic nature.
SUNDAY - 11.09.2022		
2	September (12-17)	Reactions of alcohols. Dihydric alcohols — nomenclature, methods of formation, chemical reactions of vicinal glycols, oxidative cleavage [Pb(OAc) ₄ and HIO ₄] and pinacol-pinacolone rearrangement.
SUNDAY - 18.09.2022		
3	September (19-24)	Phenols Nomenclature, structure and bonding. Preparation of phenols, physical properties and acidic character.
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	Comparative acidic strengths of alcohols and phenols, resonance stabilization of phenoxide ion. Reactions of phenols — electrophilic aromatic substitution
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	Mechanisms of Fries rearrangement, Claisen rearrangement, Reimer-Tiemann reaction, Kolbe's reaction
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	Schotten and Baumann reactions. Epoxides Synthesis of epoxides. Acid and base-catalyzed ring opening of epoxides,
SUNDAY - 16.10.2022		
7	October (17-21)	Orientation of epoxide ring opening, Reactions of Grignard and organolithium reagents with epoxides.
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	Ultraviolet (UV) absorption spectroscopy Absorption laws (Beer-Lambert law), molar absorptivity, presentation and analysis of UV spectra, types of electronic
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	Concept of chromophore and auxochrome. Bathochromic, hypsochromic, hyperchromic and hypochromic shifts. UV spectra of conjugated enes and enones,
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	Woodward- Fieser rules, calculation of λ_{max} of simple conjugated dienes and unsaturated ketones.
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	Applications of UV Spectroscopy in structure elucidation of simple organic compounds.
SUNDAY - 20.11.2022		
12	November (21-26)	Carboxylic Acids & Acid Derivatives Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength.
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	Preparation of carboxylic acids. Reactions of carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of carboxylic acids.
SUNDAY - 04.12.2022		
14	December (5-10)	Mechanism of decarboxylation. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution.
SUNDAY - 11.12.2022		
15	December (12-14)	Mechanisms of esterification and hydrolysis (acidic and basic)

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (IIIrd Semester)

Name of the Paper:-PHYSICAL CHEMISTRY

Class: BSC II

Name of the Teachers (Section Wise) : DR. MOHD ISHAQ

WEEK	DATE	TOPICS
1	September (6-10)	Thermodynamics Definition of thermodynamic terms: system, surrounding etc. Types of systems, intensive and extensive properties. State and path functions and their differentials
SUNDAY - 11.09.2022		
2	September (12-17)	Thermodynamic process. Thermodynamic equilibrium, Concept of heat and work. First law of thermodynamics: statement, concepts of internal energy and enthalpy.
SUNDAY - 18.09.2022		
3	September (19-24)	Heat capacity, heat capacities at constant volume and pressure and their relationship
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martyrdom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	Joule–Thomson coefficient for ideal gas and real gas and inversion temperature.
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	Calculation of w for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process.
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	Calculation of q , dU for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process.
SUNDAY - 16.10.2022		
7	October (17-21)	Calculation of dH for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process. CLASS TEST
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	Chemical Equilibrium Equilibrium constant and free energy, concept of chemical potential
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	Thermodynamic derivation of law of chemical equilibrium. Temperature dependence of equilibrium constant.
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	Clausius–Clapeyron equation and its applications.
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	Distribution Law Nernst distribution law – its thermodynamic derivation,
SUNDAY - 20.11.2022		
12	November (21-26)	Applications of distribution law: (i) Determination of degree of hydrolysis and hydrolysis constant of aniline hydrochloride
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	(ii) Determination of equilibrium constant of potassium tri-iodide complex
SUNDAY - 04.12.2022		
14	December (5-10)	(iii) Process of extraction
SUNDAY - 11.12.2022		
15	December (12-14)	More stress on numerical problems

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (IIIrd Semester)

Name of the Paper:- Data Structure

Class: BSC(cs)

Name of the Teacher (Section Wise) : Milan Sharma

WEEK	DATE	TOPICS
1	September (6-10)	
		Introduction: Elementary data organization,
SUNDAY - 11.09.2022		
2	September (12-17)	
		Data Structure definition, Data type vs. data structure
		Categories of data structures
		Data structure operations
SUNDAY - 18.09.2022		
3	September (19-24)	
		Applications of data structures, Algorithms complexity
		time-space tradeoff, Big-O notation.
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	
		Strings: Introduction, strings, String operations
		Pattern matching algorithms
		Arrays: Introduction, Linear arrays
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	
		Representation of linear array in memory
		Traversal, Insertions, Deletion in an array,
		Test
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	
		Multidimensional arrays, Parallel arrays, Sparse matrix. Linked List: Introduction, Array vs. linked list
		SUNDAY - 16.10.2022
7	October (17-21)	
		Representation of linked lists in memory>>>>Assignment Traversal, Insertion, Deletion
		Diwali Break - 22.10.2022 to 26.10.2022
8	October (27-29)	Searching in a linked list, Header linked list Circular linked list, Two-way linked list Garbage collection, Applications of linked lists
		SUNDAY - 30.10.2022
9	October (31) November (1-5)	Algorithm of insertion/ deletion in SLL Stack: primitive operation on stack, algorithms for push and pop Representation of Stack as Linked List and array
		HOLIDAY - 01.11.2022 (Haryana Day)
		SUNDAY - 06.11.2022
10	November (7-12)	Stacks applications : polish notation, recursion>>>Assignment
		Introduction to queues, Primitive Operations on the Queues Circular queue, Priority queue,
		HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)
		SUNDAY - 13.11.2022
11	November (14-19)	Representation of Queues as Linked List and array Applications of queue Algorithm on insertion and deletion in simple queue and circular queue
		SUNDAY - 20.11.2022
12	November (21-26)	Trees - Basic Terminology, representation Binary Trees, Tree Representations using Array & Linked List operation on Binary tree, Traversal of binary trees
		SUNDAY - 27.11.2022

13	November (28-30) December (1-3)	
		In order, Preorder & post order
		Applications of Binary tree
		Algorithm of tree traversal with and without recursion.
SUNDAY - 04.12.2022		
14	December (5-10)	
		Introduction to graphs, Definition, Terminology, Directed Undirected & Weighted graph,
		Representation of graphs
SUNDAY - 11.12.2022		
15	December (12-14)	

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (IIIrd Semester)

Name of the Paper:- Software Engineering

Class: Bsc(cs)

Name of the Teachers (Section Wise) : Milan Sharma

WEEK	DATE	TOPICS
1	September (6-10)	
SUNDAY - 11.09.2022		
2	September (12-17)	Program vs. Software
		Software Engineering
		Programming paradigms
SUNDAY - 18.09.2022		
3	September (19-24)	Software Crisis – problem and causes
		Phases in Software development: Requirement
		Analysis
		Software Design,Coding
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	Testing, Maintenance
		Software Development Process
		Models: Waterfall, Prototype
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	Evolutionary and Spiral models,
		Role of Metrics, Feasibility Study,
		Software Requirement Analysis and Specifications: SRS, Need for SRS,
		Characteristics of an SRS
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	Components of an SRS, Problem Analysis
		Information gathering tools
		Organising and structuring information
SUNDAY - 16.10.2022		
7	October (17-21)	Requirement specification, validation and metrics.
		TEST
		Structured Analysis and Tools: Data Flow Diagram
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	Data Dictionary, Decision table>>>>ASSIGNMENT
		Decision trees, Structured English Entity-Relationship diagrams
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	Software Project Planning: Cost estimation: COCOMO model
		Project scheduling, Staffing and personnel planning
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	team structure
		Software configuration management
		Quality assurance plans, Project monitoring plans,
SUNDAY - 20.11.2022		
12	November (21-26)	Risk Management.>>> ASSIGNMENT
		Software testing strategies: unit testing,
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	integration testing, System testing,
		Alpha and Beta testing
		Black box, white box testing
SUNDAY - 04.12.2022		
14	December (5-10)	Cyclomatic Complexity.
		Black box, white box testing
		Software Implementation and Maintenance
SUNDAY - 11.12.2022		
15	December (12-14)	Type of maintenance
		Management of Maintenance, Maintenance Process
		maintenance characteristics

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (IIIrd Semester)

Name of the Paper:- Advanced Calculus

Class: B.Sc. II

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

WEEK	DATE	TOPICS
1	September (6-10)	Continuous Function
		Continuous Function
		Continuous Function
		Continuous Function
		Continuous Function
SUNDAY - 11.09.2022		
2	September (12-17)	Continuous Function
		Continuous Function
		Problem Discussion
		Uniform Continuity
		Uniform Continuity
SUNDAY - 18.09.2022		
3	September (19-24)	Uniform Continuity
		Problem Discussion
		Test
		The Derivatives and M.V.T.S
		The Derivatives and M.V.T.S
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	The Derivatives and M.V.T.S
		The Derivatives and M.V.T.S
		The Derivatives and M.V.T.S
		Cauchy M.V.T.S
		Cauchy M.V.T.S
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	Cauchy M.V.T.S
		Cauchy M.V.T.S
		Problem Discussion
		Test
		Intermediate Form
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	Intermediate Form
		Intermediate Form
		Intermediate Form
		Intermediate Form
		Intermediate Form
		Problem Discussion
SUNDAY - 16.10.2022		
7	October (17-21)	Revision
		Test
		Limit, Continuity of functions of two variables
		Limit, Continuity of functions of two variables
		Limit, Continuity of functions of two variables
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	Limit, Continuity of functions of two variables
		Limit, Continuity of functions of two variables
		Limit, Continuity of functions of two variables
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	Partial Differentiation
		Partial Differentiation
		Partial Differentiation
		Partial Differentiation
		Partial Differentiation
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	Partial Differentiation
		Partial Differentiation
		Problem Discussion
		Total Derivative
		Total Derivative
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	Total Derivative
		Total Derivative
		Differentiation of Function of two variables
		Differentiation of Function of two variables
		Differentiation of Function of two variables
		Differentiation of Function of two variables
SUNDAY - 20.11.2022		
12	November (21-26)	Differentiation of Function of two variables
		Differentiation of Function of two variables
		Differentiation of Function of two variables
		Maxima and Minima of Functions
		Maxima and Minima of Functions
		Maxima and Minima of Functions
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	Curve in Space
		Curve in Space
		Curve in Space
		Curve in Space
		Curve in Space
		Curve in Space
SUNDAY - 04.12.2022		
14	December (5-10)	Circle of Curvature and Spherical Curvature
		Circle of Curvature and Spherical Curvature
		Involutes and Evolutes
		Involutes and Evolutes
		Concept of a Surface and Envelopes
		Concept of a Surface and Envelopes
SUNDAY - 11.12.2022		
15	December (12-14)	Problem Discussion
		Revision
		Revision

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (IIIrd Semester)

Name of the Paper:- Partial Differential Equation

Class: B.SC.-II

Name of the Teachers (Section Wise) : Manish Kumar

WEEK	DATE	TOPICS
1	September (6-10)	BASIC ABOUT DIFFERENTIAL EQUATION
		PARTIAL DIFFERENTIAL EQUATION
		TYPES OF DIFFERENTIAL EQUATION
		ORDER AND DEGREE
		LINEAR AND NON LINEAR PARTIAL DIFFERENTIAL EQUATION
SUNDAY - 11.09.2022		
2	September (12-17)	COMPLETE SOLUTION
		SINGULAR SOLUTION
		EXAMPLES
		EXAMPLES
		CHARPIT METHOD OF SOLUTION
SUNDAY - 18.09.2022		
3	September (19-24)	JACOBIS METHOD
		EXAMPLES
		LINEAR PARTIAL DIFFERENTIAL EQUATION OF SECOND AND HIGHER ORDER
		EXAMPLES
		EXAMPLES
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	LINEAR HOMOGENOUS EQUATION
		EXAMPLES
		NON LINEAR HOMOGENOUS EQUATION
		EXAMPLES
		EXAMPLES
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	PARTIAL DIFFERENTIAL EQUATION WITH CONSTANT COEFFICIENTS
		EXAMPLES
		EXAMPLES
		EQUATION REDUCIBLE WITH CONSTANT COEFFICIENTS
		COMPLIMENTARY EQUATION
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	EXAMPLES
		PARTICULAR INTEGRALS
		EXAMPLES
		EXAMPLES
		EQUATION REDUCIBLE TO LINEAR EQUATION WITH CONSTANT COEFFICIENTS
		EXAMPLES
SUNDAY - 16.10.2022		
7	October (17-21)	CLASSIFICATION OF LINEAR PARTIAL DIFFERENTIAL EQUATION OF SECOND
		CONTINUE
		EXAMPLES
		EXAMPLES
		HYPERBOLIC EQUATION
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	EXAMPLES
		PARABOLIC EQUATION
		EXAMPLES
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	EXAMPLES
		ELLIPTIC TYPE EQUATION
		EXAMPLES
		EXAMPLES
		REDUCTION OF SECOND ORDER INTO CANONICAL FORM
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	EXAMPLES
		EXAMPLES
		EXAMPLES
		SOLUTION OF LINEAR HYPERBOLIC EQUATION
		MONGES METHOD
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	EXAMPLES
		EXAMPLES
		CAUCHY PROBLEM FOR SECOND ORDER
		EXAMPLES
		EXAMPLES
		CHARACTERSTIC EQUATION AND CHARACTERSTIC CURVE
SUNDAY - 20.11.2022		
12	November (21-26)	EXAMPLES
		EXAMPLES
		EXAMPLES
		EXAMPLES
		METHOD OF SEPERATION OF VARIABLES OF LAPLACE EQUATION
		EXAMPLES
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	EXAMPLES
		EXAMPLES
		EXAMPLES
		EXAMPLES
		WAVE EQUATION IN ONE,TWO DIMENSIONS
		EXAMPLES
SUNDAY - 04.12.2022		
14	December (5-10)	EXAMPLES
		HEAT EQUATION IN ONE TWO DIMENSIONS
		EXAMPLES
		EXAMPLES
		DOUBTS
		CLASS TEST
SUNDAY - 11.12.2022		
15	December (12-14)	Revision
		Revision
		Revision

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (III - Semester)

Name of the Paper:- Statics

Class: B.Sc.- II

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

WEEK	DATE	TOPICS
1	September (6-10)	Mechanics and its Branches, Definitions related to Statics
		Forces Acting at a Point
		Resultant and Components
		Parallelogram Law of Forces
		Questions based on Parallelogram Law of Forces
SUNDAY - 11.09.2022		
2	September (12-17)	Questions based on Parallelogram Law of Forces
		Resolved parts of a force
		Resolved parts of a force
		Triangle Law of Forces
		Lami's Theorem
		Questions based on Lami's Theorem
SUNDAY - 18.09.2022		
3	September (19-24)	Questions based on Lami's Theorem
		Theorem of Resolved Parts
		Theorem of Resolved Parts
		Conditions of Equilibrium of Concurrent Forces
		Conditions of Equilibrium of Concurrent Forces
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martyrdom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	Equilibrium of Bodies on Inclined Plane
		Parallel Forces
		Resultant of Parallel Forces
		Centre of Parallel Forces
		Theorem of Resolved Parts and related questions
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	Moment of a Force
		Varignon's Theorem and related articles
		Questions based on Varignon's Theorem
		Centre of a number of Parallel Forces
		Couples, moments of couple
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	equilibrium & equivalence of couples and its theorems
		Resultant of force and a couple
		Equilibrium of three force acting at a point
		Conditions of equilibrium on rigid body
		Condition of equilibrium on any number of coplanar forces
		Problem Discussion
SUNDAY - 16.10.2022		
7	October (17-21)	Friction(Introduction)
		Laws of Friction
		Articles based on Friction
		Equilibrium of Rods and Ladders
		Centre of Gravity of numbers of particles
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	C.O.G.of uniform rod,lamina,trapezium lamina
		C.O.G. of uniform quadrilateral lamina,trapezium lamina
		C.O.G. by integration of uniform rod,lamina
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	C.O.G. of right circular solid cone,an arc of plane curve
		Work,units of work
		Work done by numbers of particles
		Virtual work,Principle of virtual work
		Forces which may be omitted in virtual work
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	Body resting on inclined plane ,on elastic strings
		Forces in Three Dimensions
		Parallelopiped of forces
		Results of couples
		Axis of couples
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	Composition of couples
		Analytical method for resultant of any number of forces
		Condition of equilibrium ,Poinsot's central axis
		System of forces reduce to single forces,Invariants
		Equation of central axis
		Introduction to wrenches
SUNDAY - 20.11.2022		
12	November (21-26)	Resultant wrench of two given wrenches
		System of forces replaced by two forces in an infinite ways
		Axes of two given wrenches intersect at right angles
		Any wrench may be resolved into two wrenches in infinite ways
		Null lines & null planes
		Equation of null plane
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	Find null point of plane for system of forces
		Condition that straight may be null
		Find equation of conjugate line of given line
		Equilibrium of bodies, Position of equilibrium
		Condition of stability of equilibrium
		Find whether equilibrium is stable or not
SUNDAY - 04.12.2022		
14	December (5-10)	A body resting inside other fixed concave body
		Doubts of Unit 1, Previous year question paper Discussion
		Doubts of Unit 2, Previous year question paper Discussion
		Doubts of Unit 3, Previous year question paper Discussion
		Doubts of Unit 4, Previous year question paper Discussion
		Test of Unit 1
SUNDAY - 11.12.2022		
15	December (12-14)	Test of Unit 2
		Test of Unit 3
		Test of Unit 4

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (IIIrd Semester)

Name of the Paper:- Computer Programming & Thermodynamics

Class: B.Sc

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

WEEK	DATE	TOPICS
1	September (6-10)	Thermodynamic-I : Thermodynamic system and Zeroth law of thermodynamics.
		First law of thermodynamics and its limitations
		Reversible and irreversible process.
SUNDAY - 11.09.2022		
2	September (12-17)	Second law of thermodynamics 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
SUNDAY - 18.09.2022		
3	September (19-24)	Analytical treatment of Joule Thomson effect. 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 oxygen
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	Liquefaction of hydrogen
		Liquefaction of helium
		Liquefaction of air
		Solidification of He below 4K, Cooling by adiabatic demagnetization
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	THERMODYNAMICS-II : Derivation of Clausius-Clapeyron and Clausius latent heat equation and their significance
		latent heat second equation
		Development of Maxwell thermodynamical relations, Thermodynamical
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	functions:Internal energy (U)Helmholtz function (F), Enthalpy (H),
		Gibbs function (G)
		Derivation of Maxwell thermodynamical relations from thermodynamical functions
SUNDAY - 16.10.2022		
7	October (17-21)	Application of Maxwell relations: relations between two specific heats of gas
		Specific heat of saturated vapours,phase diagram and triple point of a substance
		Derivation of Clausius-Clapeyron and Clausius equation
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	Variation of intrinsic energy with volume for (i) perfect gas (ii)Vanderwall gas (iii)solids and liquids
		Derivation of Stefans law
		Adiabatic compression and expansion of gas
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	Deduction of theory of Joule Thomson effect
		Numerical Problems
		Computer Programming : Computer organization, Binary representation
		Algorithm development
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	Flow charts and their interpretation.
		FORTRAN Preliminaries: Integer and floating point arithmetic expression
		built in functions, executable and non-executable statements
		input and output statements
SUNDAY - 20.11.2022		
12	November (21-26)	Formats, IF statement
		DO statement and GO TO statement
		Conditional Test
		Dimension arrays,Statement function
		function subprogram.Application of Fortran Programming: Flow Chart
		Programming for Print out of Natural numbers
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	Range of the set of given numbers
		Ascending and descending order
		Mean and standard deviation
		Least square fitting of curve,
		Roots of quadratic equation
SUNDAY - 04.12.2022		
14	December (5-10)	Product of two matrices
		Numerical integration by Simpson 1/3 rule
		Numerical integration by Trapezoidal rule
SUNDAY - 11.12.2022		
15	December (12-14)	Revision
		Revision
		Revision

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (IIIrd Semester)

Name of the Paper:- Wave and Optics

Class: B.Sc

Name of the Teachers (Section Wise) : Ms. Anjali Singla

WEEK	DATE	TOPICS
1	September (6-10)	UNIT-I (INTERFERENCE-I)BASICS OF OPTICS , INTRODUCTION TO INTERFERENCE OF LIGHT BY DIVISION OF WAVEFRONT, TYPES OF INTERFERENCE
		EXPERIMENT DEMONSTRATION OF INTERFERENCE -YOUNG'S DOUBLE SLIT EXPERIMENT
SUNDAY - 11.09.2022		
2	September (12-17)	COHERENT SOURCES,CONDITION FOR GOOD INTERFERENCE FRINGES , PHASE DIFFERENCE AND PATH DIFFERENCE
		ANALYTICAL TREATMENT OF INTERFERENCE,ENERGY DISTRIBUTION CURVE ,NUMERICALS
		FRESNEL'S BIPRISM AND DETERMINATION OF WAVELENGTH,FRINGES WITH WHITE LIGHT USING BIPRISM
SUNDAY - 18.09.2022		
3	September (19-24)	FRESNEL'S BIPRISM FRINGES WITH WHITE LIGHT USING BIPRISM
		LOCATION OF CENTRAL FRINGE,NUMERICALS
		DETERMINATION OF THICKNESS OF THIN SHEET OF TRANSPARENT MATERIAL
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martyrdom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	LLOYD'S MIRROR ,NUMERICALS
		DIFFERENCE BETWEEN BI-PRISM AND LLOYD MIRROR FRINGES,CONCEPTUAL QUESTIONS
		PHASE CHANGE ON REFLECTION (STOKE'S LAW) DISCUSSION OF PROBLEMS BASED ON UNIT-I
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	UNIT-II INTERFERENCE BY A PLANE PARALLEL FILM ILLUMINATED BY A PLANE WAVE
		INTERFERENCE OF LIGHT IN THIN FILM(TRANSMITTED LIGHT)
		INTENSITY OF MAXIMA AND MINIMA IN REFLECTED BEAMS IN THIN FILMS
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	FILMS, NUMERICALS
		PARALLEL FILM WHEN ILLUMINATED BY A POINT SOURCE
SUNDAY - 16.10.2022		
7	October (17-21)	FILMS
		INTERFERENCE BY A WEDGE-SHAPED FILM ILLUMINATED BY A PLANE WAVE GIVEN
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	WAVELENGTH
		NEWTON'S RINGS WITH WHITE LIGHT
		RINGS WITH PLANE MIRROR INSTEAD OF GLASS PLATE
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	CONDITIONAL TEST
		MICHELSON INTERFEROMETER
		MONOCHROMATIC LIGHT
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	STANDARDISATION OF METRE , NUMERICALS
		ASSUMPTIONS
		RECTILINEAR PROPAGATION OF LIGHT
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	FRESNEL'S HALF PERIOD ZONE
		ZONE PLATE
		DIFFRACTION AT A STRAIGHT EDGE
		DIFFRACTION AT A RECTANGULAR SLIT
SUNDAY - 20.11.2022		
12	November (21-26)	DIFFRACTION AT A CIRCULAR APERTURE
		WIRE
		DIFFRACTION , ASSIGNMENT-II
		TO SINGLE SLIT
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	FRAUNHOFFER DIFFRACTION AT A DOUBLE SLIT
		FRAUNHOFFER DIFFRACTION AT A 'N' SLIT
		FRAUNHOFFER DIFFRACTION AT A 'N' SLIT (THEORY OF PLANE DIFFRACTION)
SUNDAY - 04.12.2022		
14	December (5-10)	DISPERSIVE POWER OF GRATING ,LIMIT OF RESOLUTION
		RAYLEIGH's CRITERION
		RESOLVING POWER OF TELESCOPE
		RESOLVING POWER OF GRATING
		DIFFERENCE BETWEEN PRISM AND GRATING SPECTRA
SUNDAY - 11.12.2022		
15	December (12-14)	Revision
		Revision
		Revision

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (IIIrd Semester)

Name of the Paper:- Mammalian Physiology-I

Class: B.sc II

Name of the Teachers (Section Wise) : Monika

WEEK	DATE	TOPICS
1	September (6-10)	Protein introduction and classification
		Protein introduction and classification
		Structure and functions of proteins
SUNDAY - 11.09.2022		
2	September (12-17)	Structure and functions of proteins
		Structure and functions of proteins
		Properties of proteins
SUNDAY - 18.09.2022		
3	September (19-24)	Properties of proteins
		Properties of proteins
		Properties of proteins
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	Carbohydrates
		Carbohydrates
		Carbohydrates
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	Carbohydrates
		Carbohydrates
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	Lipids
		Lipids
		Lipids
SUNDAY - 16.10.2022		
7	October (17-21)	Lipids
		Lipids
		Lipids
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	Nutritional components
		Nutritional components
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	Types of nutrition
		Types of nutrition
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	Symbiotic digestion
		Absorption of nutrients & assimilation
		Absorption of nutrients & assimilation
SUNDAY - 20.11.2022		
12	November (21-26)	control of enzyme secretion
		control of enzyme secretion
		Types of muscles
SUNDAY - 27.11.2022		

13	November (28-30) December (1-3)	ultra-structure of skeletal muscle
		ultra-structure of skeletal muscle
		Events during muscle contraction
SUNDAY - 04.12.2022		
14	December (5-10)	Cori's cycle
		single unit smooth muscles
		Structure and types
SUNDAY - 11.12.2022		
15	December (12-14)	bone growth and resorption
		bone disorders
		bone disorders

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.09.2022 to 14.12.2022)

Weekly Lesson Plan

(Odd Semester)

UG (IIIrd Semester)

Name of the Paper:- Life and diversity of Chordates I

Class: B.Sc. Medical

Name of the Teachers (Section Wise) : BHAWNA MALIK

WEEK	DATE	TOPICS
1	September (6-10)	
		Chordates origin and evolution
		Chordates origin and evolution
SUNDAY - 11.09.2022		
2	September (12-17)	
		Protochordates systematic position and distribution
		Protochordates ecology
SUNDAY - 18.09.2022		
3	September (19-24)	
		Protochordates affinity
		Urochordates Type study <i>Herdmania</i>
		Urochordates Type study <i>Herdmania</i>
HOLIDAY - 23.09.2022 (Shaheedi Divas/ Haryana War Heroes' Martydom Day)		
SUNDAY - 25.09.2022		
HOLIDAY - 26.09.2022 (Maharaja Agrasen Jayanti)		
4	September (27-30) October (1)	
		Urochordates Type study <i>Herdmania</i>
		Urochordates Type study <i>Herdmania</i>
SUNDAY - 02.10.2022 & Holiday (Mahatma Gandhi Jayanti)		
5	October (3-8)	
		Type study <i>Amphioxus</i>
		Type study <i>Amphioxus</i>
HOLIDAY - 05.10.2022 (Dussehra)		
SUNDAY - 09.10.2022 & Holiday (Maharishi Valmiki Jayanti)		

6	October (10-15)	
		Type study <i>Amphioxus</i>
		Type study <i>Amphioxus</i>
Type study <i>Amphioxus</i>		
SUNDAY - 16.10.2022		
7	October (17-21)	
		Type study of <i>Petromyzon</i>
		Type study of <i>Petromyzon</i>
Type study of <i>Petromyzon</i>		
Diwali Break - 22.10.2022 to 26.10.2022		
8	October (27-29)	Type study of <i>Petromyzon</i>
		Type study of <i>Petromyzon</i>
		Type study of <i>Petromyzon</i>
SUNDAY - 30.10.2022		
9	October (31) November (1-5)	
		Pisces scales and fins
		Pisces scales and fins
Revision test		
HOLIDAY - 01.11.2022 (Haryana Day)		
SUNDAY - 06.11.2022		
10	November (7-12)	
		Parental care in fishes
		Parental care in fishes
Parental care in fishes		
HOLIDAY - 08.11.2022 (Guru Nanak Dev Jayanti)		
SUNDAY - 13.11.2022		
11	November (14-19)	
		Fish migration
		Fish migration
Fish migration		
SUNDAY - 20.11.2022		
12	November (21-26)	
		Fish migration
		Fish migration
Revision test		
SUNDAY - 27.11.2022		

13	November (28-30)	
	December (1-3)	Type study of <i>Labeo</i>
		Type study of <i>Labeo</i>
		Type study of <i>Labeo</i>
SUNDAY - 04.12.2022		
14	December (5-10)	
		Type study of <i>Labeo</i>
		Type study of <i>Labeo</i>
		Class test
SUNDAY - 11.12.2022		
15	December (12-14)	