I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

B.Sc. 4th Semester

Name of the Paper: Recombinant DNA Technology   Class:B.Sc. 2nd Year

Name of the Teachers (Section Wise): Anjushree

WEEK	DATE	TOPICS
1	January (1-6)	
		Recombinant DNA Technology and Genetic Engineering: Introduction, history, scope and applications
		Recombinant DNA Technology and Genetic Engineering: Introduction, history, scope and applications
		Tools of Recombinant DNA technology: Steps in gene cloning
SUNDAY - 07.01.2024		
2	January (8-13)	
		Tools of Recombinant DNA technology: Steps in gene cloning
		Tools of Recombinant DNA technology: Steps in gene cloning
		Ligases, polymerases,alkaline phosphatases, kinases, transferases and other DNA engineering enzymes
SUNDAY - 14.01.2024		
3	January (15-16) January (18-20)	
		Gene cloning tools - Restriction,Enzymes- class I, II and class III restriction enzymes, their features.
		Ligases, polymerases,alkaline phosphatases, kinases, transferases and other DNA engineering enzymes
		Ligases, polymerases,alkaline phosphatases, kinases, transferases and other DNA engineering enzymes
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
SUNDAY - 21.01.2024		
4	January (22-25) January (27)	
		Plasmid vectors
		Plasmid vectors
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		
5	January (29-31) February (1-3)	
		Bacteriophage, cosmids and phagemids.
		Bacteriophage, cosmids and phagemids.
		Properties of host.
SUNDAY - 04.02.2024		

6	**February (5-10)**	
		M13 vectors
		Expression vectors, shuttle vectors
		Vectors for cloning in eukaryotic cells, YACs and BACs

SUNDAY - 11.02.2024

7	**February (12-13)** **February (15-17)**	
		Isolation of Vector DNA
		In vitro construction of r-DNA molecules: Isolation of gene of interest
		Isolation of Vector DNA

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI

SUNDAY - 18.02.2024

8	**February (19-24)**	
		cohesive and blunt ends, modification of cut ends
		linkers and adaptors
		Integration of DNA inserts into the vectors.

SUNDAY - 25.02.2024

9	**February (26-29)** **March (1-2)**	
		Integration of DNA inserts into the vectors.
		Transformation: Techniques of introducing r-DNA into the desired host, competent cells
		Transformation: Techniques of introducing r-DNA into the desired host, competent cells

SUNDAY - 03.03.2024

10	**March (4-7)** **March (9)**	
		electroporation and microinjection
		Screening and selection of transformants, immunological screening
		Colony hybridization. Marker genes- selectable and scorable markers.

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI

SUNDAY - 10.03.2024

11	**March (11-16)**	
		Gene Libraries: Construction of Genomic and cDNA library
		Advantages and limitations,Screening of gene libraries
		Advantages and limitations,Screening of gene libraries

SUNDAY - 17.03.2024

12	**March (18-22)**	
		Advantages and limitations,Screening of gene libraries
		DNA amplification through PCR: Basic features and applications of PCR, types and modifications
		Site directed mutagenesis
HOLI VACATION - 23.03.2024 - 31.03.2024		
(SHAHEEDI DIWAS - 23.03.2024)		
13	**April (1-6)**	
		Assignments
		Southern and Northern analysis, DNA finger printing. PAGE
		Western blotting, dot blots and slot blots. RFLP, RAPD (brief only), microarrays.
SUNDAY - 07.04.2024		
14	**April (8-10) April (12-13)**	
HOLIDAY - 11.04.2024 - ID-UL-FITR		
SUNDAY - 14.04.2024		
15	**April (15-16) April (18-20)**	
		DNA sequencing techniques: Maxam – Gilbert's method, Sanger's dideoxy chain termination method
		Gene expression in prokaryotes: expression cassette. Promoters- tissue specific promoters
		Wound inducible promoters, strong and regulated promoters
HOLIDAY - 17.04.2024 - RAM NAVMI		
SUNDAY - 21.04.2024		
16	**April (22-27)**	
		Increasing protein yield-factors affecting level of recombinant protein production
		Production of recombinant proteins in E. coli
		Translational and transcriptional fusion- advantages and disadvantages.
SUNDAY - 28.04.2024		
17	**April (29-30)**	
		Applications of Recombinant DNA technology
		Applications of Recombinant DNA technology
University Examinations w.e.f. 01.05.2024		

Weekly Lesson Plan (Even Semester)

UG (IV Semester)

Name of the Paper:-   Organic Chemistry   Class: B.Sc. 4th Semester

Name of the Teachers (Section Wise) : Prof. Ranjana Sharma

WEEK	DATE	TOPICS
1	**January (4-6)**	Mechanism of diazotisation, structure of benzene diazonium chloride,
	SUNDAY - 07.01.2024	
2	**January (8-13)**	Replacement of diazo group by H, OH, F, Cl, Br, I, NO 2 and CN groups, reduction of diazonium salts to hyrazines, coupling reaction and i ts synthetic application.
	SUNDAY - 14.01.2024	
3	**January (15-16) January (18-20)**	Nomenclature and structure of the carbonyl group. Synthesis of aldehydes and ketones with particular reference to the synthesis of aldehydes from acid chlorides,
	HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI	
	SUNDAY - 21.01.2024	
4	**January (22-25) January (27)**	advantage of oxidation of alcohols with chromium trioxide (Sarett reagent) pyridinium chlorochromate (PCC) and pyridinium dichromate.
	HOLIDAY - 26.01.2024 - REPUBLIC DAY	
	SUNDAY - 28.01.2024	
5	**January (29-31) February (1-3)**	Physical properties, Comparison of reactivities of aldehydes and ketones.
	SUNDAY - 04.02.2024	

6	**February (5-10)**	Mechanism of nucleophilic additions to carbonyl group with particular emphasis on benzoin, aldol,

SUNDAY - 11.02.2024

7	**February (12-13) February (15-17)**	Perkin and Knoevenagel condensations. Condensation with ammonia and its derivatives. Wittig reaction. Mannich reaction.Oxidation of aldehydes,

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI
SUNDAY - 18.02.2024

8	**February (19-24)**	Baeyer– Villiger oxidation of ketones, Cannizzaro reaction. MPV, Clemmensen, Wolff- Kishner, LiAlH4 and NaBH4 reductions.

SUNDAY - 25.02.2024

9	**February (26-29) March (1-2)**	Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum,

SUNDAY - 03.03.2024

10	**March (4-7) March (9)**	fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds.

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI
SUNDAY - 10.03.2024

11	**March (11-16)**	Applications of IR spectroscopy in structure elucidation of simple organic compounds.

SUNDAY - 17.03.2024

12	**March (18-22)**	Structure and nomenclature of amines, physical properties.

HOLI VACATION - 23.03.2024 - 31.03.2024
(SHAHEEDI DIWAS - 23.03.2024)

13	**April (1-6)**	Separation of a mixture of primary, secondary and tertiary amines. Structural features affecting basicity of amines.

SUNDAY - 07.04.2024

14	**April (8-10) April (12-13)**	Preparation of alkyl and aryl amines (reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds.

HOLIDAY - 11.04.2024 - ID-UL-FITR
SUNDAY - 14.04.2024

15	**April (15-16) April (18-20)**	Gabriel- phthalimide reaction, Hofmann bromamide reaction.

HOLIDAY - 17.04.2024 - RAM NAVMI
SUNDAY - 21.04.2024

16	**April (22-27)**	Electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.

SUNDAY - 28.04.2024

17	**April (29-30)**	Revision and Tests

University Examinations w.e.f. 01.05.2024

Weekly Lesson Plan (Even Semester)

UG -IV Semester

Name of the Paper:- **Physical Chemistry** **Clas B.Sc. 4th Sem.**

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

WEEK	DATE	TOPICS
1	**January (4-6)**	Second law of thermodynamics, need for the law, different statements of the law,
	SUNDAY - 07.01.2024	
2	**January (8-13)**	Carnot' s cycles and i ts efficiency, Carnot' s theorm,
	SUNDAY - 14.01.2024	
3	**January (15-16) January (18-20)**	Thermodynamics scale of temperature. Concept of entropy – entropy as a state function, entropy as a function of V & T, entropy as a function of P & T,
	HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI	
	SUNDAY - 21.01.2024	
4	**January (22-25) January (27)**	entropy change in physical change, entropy as a criteria of spontaneity and equilibrium.
	HOLIDAY - 26.01.2024 - REPUBLIC DAY	
	SUNDAY - 28.01.2024	
5	**January (29-31) February (1-3)**	Third law of thermodynamics: Nernst heat theorem, statement of concept of residual entropy,
	SUNDAY - 04.02.2024	

6	**February (5-10)**	evaluation of absolute entropy fro m heat capacity data. Gibbs function (G) and Helmholtz function (A) as thermodynamic quantities,

7	**February (12-13) February (15-17)**	G as criteria for thermodynamic equilibrium and spontaneity, its advantage over entropy change. Variation of G with P, V and T.

8	**February (19-24)**	Electrolytic and Galvanic cells – reversible & i rreversible cells,

9	**February (26-29) March (1-2)**	conventional representation of electrochemical cells. Calculation of thermodynamic quantities of cell reaction (▲G, ▲H & K).

10	**March (4-7) March (9)**	Types of reversible electrodes – metal- metal ion, gas electrode

11	**March (11-16)**	metal – insoluble salt- anion and redox electrodes. Electrode reactions,

12	**March (18-22)**	Nernst equations, derivation of cell EMF and single electrode potential.

13	**April (1-6)**	Standard Hydrogen electrode, reference electrodes, standard electrode potential, sign conventions

SUNDAY - 07.04.2024		
14	**April (8-10)** **April (12-13)**	Concentration cells with and without transference, l iquid junction potential and i ts measurement.

HOLIDAY - 11.04.2024 - ID-UL-FITR
SUNDAY - 14.04.2024

15	**April (15-16)** **April (18-20)**	Applications of EMF measurement in solubility product and potentiometric t i trations using glass electrode.

HOLIDAY - 17.04.2024 - RAM NAVMI
SUNDAY - 21.04.2024

16	**April (22-27)**	numerical problems

SUNDAY - 28.04.2024

17	**April (29-30)**	Revision and Tests

University Examinations w.e.f. 01.05.2024

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester)

Name of the Paper:- PROGRAMMING IN C++   Class: 4th SEM Section

Name of the Teachers (Section Wise) : Prof. Vinay Bharti

WEEK	DATE	TOPICS
1	January (1-6)	Inheritance: Rules of Derivations – Private, Protected and Public Derivations, Different Forms of Inheritance – Single, Multiple Inheritance
	SUNDAY - 07.01.2024	
2	January (8-13)	Multilevel, Hierarchical and Multipath Inheritance
	SUNDAY - 14.01.2024	
3	January (15-16) January (18-20)	Roles of Constructors and Destructors in Inheritance.
	HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI	
	SUNDAY - 21.01.2024	
4	January (22-25) January (27)	Programming Examples Of Inheritance
	HOLIDAY - 26.01.2024 - REPUBLIC DAY	
	SUNDAY - 28.01.2024	
5	January (29-31) February (1-3)	Dynamic Polymorphism: Function Overriding, Virtual Function and its Need, Pure Virtual Function, Abstract Class, Virtual Derivation, Virtual Destructor
	SUNDAY - 04.02.2024	

6	**February (5-10)**	Type Conversion: Basic Type Conversion, Conversion Between
		Objects And Basic Types, Conversion Between Objects Of
		Different Classes.

SUNDAY - 11.02.2024

7	**February (12-13)** **February (15-17)**	Assignment 1
		Revision Of Unit 1
		Conditonal Test Of Unit 1

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI

SUNDAY - 18.02.2024

8	**February (19-24)**	Programming Examples Of Polymorphism

SUNDAY - 25.02.2024

9	**February (26-29)** **March (1-2)**	
		Genericity in C++: Template Function, Template Class, Inheritance
		and Templates.

SUNDAY - 03.03.2024

10	**March (4-7)** **March (9)**	Revision Of Unit 2

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI

SUNDAY - 10.03.2024

11	**March (11-16)**	Exception Handling: try, throw and catch constructs, rethrowing an
		exception, catch all Handlers.

SUNDAY - 17.03.2024

12	**March (18-22)**	Files I/O in C++: Class Hierarchy for Files I/O, Text versus Binary
		Files, Opening and Closing Files

HOLI VACATION - 23.03.2024 - 31.03.2024	
(SHAHEEDI DIWAS - 23.03.2024)	

13	**April (1-6)**	Revision Of Unit 3

SUNDAY - 07.04.2024	

14	**April (8-10)** **April (12-13)**	File Pointers, Manipulators and Error Handling

HOLIDAY - 11.04.2024 - ID-UL-FITR	
SUNDAY - 14.04.2024	

15	**April (15-16)** **April (18-20)**	Revision

HOLIDAY - 17.04.2024 - RAM NAVMI	
SUNDAY - 21.04.2024	

16	**April (22-27)**	Revision

SUNDAY - 28.04.2024	

17	**April (29-30)**	Revision

University Examinations w.e.f. 01.05.2024	

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester)   : IV

Name of the Paper:- Operating System   Class: BSC (CS)

Name of the Teachers (Section Wise) : Milan Sharma

WEEK	DATE	TOPICS
1	January (1-6)	
SUNDAY - 07.01.2024		
2	January (8-13)	operating system, architecture,functions, characteristics
		historical evolution
SUNDAY - 14.01.2024		
3	January (15-16) January (18-20)	Serial batch,multiprogramming, time sharing
		real time
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
SUNDAY - 21.01.2024		
4	January (22-25) January (27)	distributed and parallel
		OS as resource Manager
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		
5	January (29-31) February (1-3)	Computer system structures: I/O structure,storage structure,
		OS as resource Manager
SUNDAY - 04.02.2024		

6	**February (5-10)**	storage hierarchy,Operating system structure system components,services, system calls

	SUNDAY - 11.02.2024

7	**February (12-13)** **February (15-17)**	system programs,system structures Process management: process concepts

	HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI
	SUNDAY - 18.02.2024

8	**February (19-24)**	process state process control block

	SUNDAY - 25.02.2024

9	**February (26-29)** **March (1-2)**	system programs,system structures process state,process control block

	SUNDAY - 03.03.2024

10	**March (4-7)** **March (9)**	operations, process scheduling, inter process communication

	HOLIDAY - 08.03.2024 - MAHA SHIVRATRI
	SUNDAY - 10.03.2024

11	**March (11-16)**	CPU Scheduling: scheduling criteria, levels of scheduling scheduling algorithms, multiple processor scheduling.

	SUNDAY - 17.03.2024

12	March (18-22)	Deadlocks: Characterization, methods of handling scheduling criteriadeadlock detection, prevention

HOLI VACATION - 23.03.2024 - 31.03.2024		
(SHAHEEDI DIWAS - 23.03.2024)		

13	April (1-6)	Assignment I
		memory management of single-user and multiuser operating system

SUNDAY - 07.04.2024		

14	April (8-10) April (12-13)	partitioning, swapping, paging and segmentation
		virtual memory, Page replacement Algorithms, Thrashing

HOLIDAY - 11.04.2024 - ID-UL-FITR		
SUNDAY - 14.04.2024		

15	April (15-16) April (18-20)	Conditional Test
		critical section problems, semaphores. Mutual exclusion

HOLIDAY - 17.04.2024 - RAM NAVMI		
SUNDAY - 21.04.2024		

16	April (22-27)	Device and file management: Disk scheduling, Disk structure
		, File access and allocation methods,Assignment II

SUNDAY - 28.04.2024		

17	April (29-30)	File Systems: Functions of the system
		Structured Organizations, directory and file protection mechanisms.

University Examinations w.e.f. 01.05.2024		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester)

Name of the Paper:- Optics-II   Class: B.Sc. Non-Medical and Comp. Sc.IV Semester

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

WEEK	DATE	TOPICS
1	January (1-6)	Unit-1 Polarisation- Intoduction about Waves, Electric and magnetic field
		Introduction Continued- Discussion on Electromagnetic spectrum and wave, Maxwells Equation
SUNDAY - 07.01.2024		
2	January (8-13)	Polarization, Polarization by reflection, Malus Law
		Polarization by refraction, scattering
SUNDAY - 14.01.2024		
3	January (15-16) January (18-20)	Phenomenon of Double Refraction, Huygen's wave theory
		Analysis of polarized light.Nicol prism
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
SUNDAY - 21.01.2024		
4	January (22-25) January (27)	Quarter Wave plate and half wave plate. Production and detection of plane polarized light
		Production and detection of circularly and elliptically polarized light
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		
5	January (29-31) February (1-3)	Optical Activity, Fresnel's theory of optical rotation
		Specific rotation Polarimeters
SUNDAY - 04.02.2024		

6	**February (5-10)**	Unit-2, Fourier theoram and fourier series
		Evaluation of fourier coefficients, importance and limitations of Fourier theoram

SUNDAY - 11.02.2024

7	**February (12-13) February (15-17)**	Even and Odd Functions
		Fourier series of functions f(x) between different limits

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI

SUNDAY - 18.02.2024

8	**February (19-24)**	Complex form of Fourier series
		Applications:Solution of triangular and rectangular waves

SUNDAY - 25.02.2024

9	**February (26-29) March (1-2)**	Solution of Half and full wave rectifier outputs
		Parseval identity for Fourier series, Fourier integrals

SUNDAY - 03.03.2024

10	**March (4-7) March (9)**	Problems on Unit 1 and 2
		Test of Unit-1 and 2

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI

SUNDAY - 10.03.2024

11	**March (11-16)**	Unit-3, Fourier transforms and properties
		Applications of fourier transforms-solving integrals

SUNDAY - 17.03.2024

		Applications in solving ordinary differential equations
12	March (18-22)	Applications to some specific functions

HOLI VACATION - 23.03.2024 - 31.03.2024	
(SHAHEEDI DIWAS - 23.03.2024)	

		Geometrical optics I:Matrix methods in paraxial optics, effects of translation and refraction
13	April (1-6)	Derivation of thin lens formulae, unit plane,nodal planes, system of thin lenses

SUNDAY - 07.04.2024	

	April (8-10)	Unit-IV:Geometrical Optics II: Different kinds of aberrations and remedies
		Continued aberrations
14	April (12-13)	

HOLIDAY - 11.04.2024 - ID-UL-FITR	

SUNDAY - 14.04.2024	

	April (15-16)	Fiber Optics:Optical fiber, Critical angle of propogation, mode of propogation, acceptance angle
15	April (18-20)	Fractional refractive index change, Numerical aperture, types of optics fiber

HOLIDAY - 17.04.2024 - RAM NAVMI	

SUNDAY - 21.04.2024	

		Normalized frequency, Pulse dispersion, Attenuation
16	April (22-27)	Applications, fiber optic communication, Advantages

SUNDAY - 28.04.2024	

		Problems on Unit 3 and 4
17	April (29-30)	Test of Unit-3 and 4

University Examinations w.e.f. 01.05.2024	

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

B.Sc. 4th Semester

Name of the Paper:BIOLOGY AND DIVERSITY OF SEED PLANTS-II   Class:B.Sc. 2nd Year

Name of the Teachers (Section Wise) : DR. NIDHAN SINGH

WEEK	DATE	TOPICS
1	January (1-6)	Taxonomy and Systematics-Introduction Taxonomy and Systematics-Introduction Identification, Classification, Description, Nomenclature, Phylogeney-Introduction
		SUNDAY - 07.01.2024
2	January (8-13)	Identification, Classification, Description, Nomenclature, Phylogeney-Introduction Chemotaxonomy and its Role in Taxonomy Cytotaxonomy-Role in Taxonomy
		SUNDAY - 14.01.2024
3	January (15-16) January (18-20)	Taximetrics-Concept and Applications Botanical Nomenclature Botanical Nomenclature- contd.
		HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI
		SUNDAY - 21.01.2024
4	January (22-25) January (27)	Principle of Priority Principle of Priority
		HOLIDAY - 26.01.2024 - REPUBLIC DAY
		SUNDAY - 28.01.2024
5	January (29-31) February (1-3)	Assignment Type Concept Type Concept contd., Taxonomic Ranks
		SUNDAY - 04.02.2024

6	February (5-10)	Taxonomic Keys-I Taxonomic Keys-II Taxonomic Keys-III				

SUNDAY - 11.02.2024

7	February (12-13) February (15-17)	Flower-Its Types and Important Terms-1 Flower-Its Types and Important Terms-2				

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI

SUNDAY - 18.02.2024

8	February (19-24)	Inflorescence and Types-1 Inflorescence and Types-2 Classification of Angiosperms Introduction-Types				

SUNDAY - 25.02.2024

9	February (26-29) March (1-2)	Bentham and Hooker's System -1 Bentham and Hooker's System -II Engler & Prantl's System				

SUNDAY - 03.03.2024

10	March (4-7) March (9)	Ranunculaceae Brassicaceae Malvaceae				

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI

SUNDAY - 10.03.2024

11	March (11-16)	Class Test Euphorbiaceae Rutaceae				

SUNDAY - 17.03.2024

12	**March (18-22)**	Leguminosae-I
		Leguminosae-II, III
		Leguminosae-II, III

HOLI VACATION - 23.03.2024 - 31.03.2024
(SHAHEEDI DIWAS - 23.03.2024)

13	**April (1-6)**	Apiaceae
		Asclepiadaceae
		Lamiaceae

SUNDAY - 07.04.2024

14	**April (8-10)** **April (12-13)**	Solanaceae
		Solanaceae
		Asteraceae- 1

HOLIDAY - 11.04.2024 - ID-UL-FITR
SUNDAY - 14.04.2024

15	**April (15-16)** **April (18-20)**	Asteraceae- 1
		Liliaceae
		Liliaceae

HOLIDAY - 17.04.2024 - RAM NAVMI
SUNDAY - 21.04.2024

16	**April (22-27)**	Revision
		Revision
		Revision

SUNDAY - 28.04.2024

17	**April (29-30)**	Test

University Examinations w.e.f. 01.05.2024

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

B.Sc. 4th Semester

Name of the Paper:- PLANT EMBRYOLOGY   **Class:** B.Sc. 4th Sem

Name of the Teachers (Section Wise) : RAJNI

WEEK	DATE	TOPICS
1	January (1-6)	
		Introduction of Flower-a modified shoot
		Introduction of Flower-a modified shoot
		Functions of various floral parts.
SUNDAY - 07.01.2024		
2	January (8-13)	
		Functions of various floral parts.
		Microsporangium Structure
		Microsporangium wall and dehiscence mechanism.
SUNDAY - 14.01.2024		
3	January (15-16) January (18-20)	
		Microsporangium wall and dehiscence mechanism.
		Microsporogenesis, pollen grain Structure
		Microsporogenesis, pollen grain Structure
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
SUNDAY - 21.01.2024		
4	January (22-25) January (27)	
		Microsporogenesis- structure (pollen wall).
		Microsporogenesis- structure (pollen wall).
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		
5	January (29-31) February (1-3)	
		Pollen-pistil interaction.
		Pollen-pistil interaction.
		Pollen -self incompatibility.
SUNDAY - 04.02.2024		

6	**February (5-10)**	
		Pollen -self incompatibility.
		Pollen germination (microgametogenesis).
		Pollination Types
SUNDAY - 11.02.2024		
7	**February (12-13)** **February (15-17)**	
		Pollination Types
		Male garnetophyte.
		Male garnetophyte.
HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI		
SUNDAY - 18.02.2024		
8	**February (19-24)**	
		Megasporangium curvatures.
		Structure of Megasporangium (ovule).
		Conditional Test
SUNDAY - 25.02.2024		
9	**February (26-29)** **March (1-2)**	
		Megasporogenesis and Megagametogenesis.
		Female gametophyte -mono-, bi and Tetrasporic
		Female gametophyte -mono-, bi and Tetrasporic
SUNDAY - 03.03.2024		
10	**March (4-7)** **March (9)**	
		Structure of Megasporangium (ovule).
		Embryogenesis in Dicot.
		Embryogenesis in monocot
HOLIDAY - 08.03.2024 - MAHA SHIVRATRI		
SUNDAY - 10.03.2024		
11	**March (11-16)**	
		Embryogenesis in monocot
		Embryogenesis in monocot
		Embryogenesis in polyembryony.
SUNDAY - 17.03.2024		

12	**March (18-22)**	
		Embryogenesis in polyembryony.
		Embryogenesis in polyembryony.
		Structure of Dicot and Monocot seed.
HOLI VACATION - 23.03.2024 - 31.03.2024	
	(SHAHEEDI DIWAS - 23.03.2024)	
13	**April (1-6)**	
		Structure of Dicot and Monocot seed.
		Structure of Dicot and Monocot seed.
		Structure of Dicot and Monocot seed.
	SUNDAY - 07.04.2024	
14	**April (8-10)** **April (12-13)**	
		Fruit Types And Dispersal
		Fruit Types And Dispersal
		Fruit Types And Dispersal
	HOLIDAY - 11.04.2024 - ID-UL-FITR	
	SUNDAY - 14.04.2024	
15	**April (15-16)** **April (18-20)**	
		Fruit Types And Dispersal
		Assigment
		Test
	HOLIDAY - 17.04.2024 - RAM NAVMI	
	SUNDAY - 21.04.2024	
16	**April (22-27)**	
		Revision
		Revision
		test
	SUNDAY - 28.04.2024	
17	**April (29-30)**	
	University Examinations w.e.f. 01.05.2024	

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN
SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

B.Sc. 4th Semester

Name of the Paper:- Life and Diversity of Chordates-II   Class: B.Sc. 2nd Year

Name of the Teachers (Section Wise): NEELAM THAREJA

WEEK	DATE	TOPICS
1	**January (1-6)**	Class Amphibia: Characters Classification and Examples Amphibia: Origin and Evolutionary tree *Frog- Rana tigrina (Type study)*
	SUNDAY - 07.01.2024	
2	**January (8-13)**	Frog- Rana tigrina (Type study) Frog- Rana tigrina (Type study) Frog- Rana tigrina (Type study)
	SUNDAY - 14.01.2024	
3	**January (15-16) January (18-20)**	Frog :Rana tigrina (Type study) Frog :Rana tigrina (Type study) Parental Care in Amphibians
	SUNDAY - 21.01.2024	
4	**January (22-25) January (27)**	Reptilia :characters¸classification¸and examples Reptilia : origin and Evolutionary tree Type study; common house lizard
	HOLIDAY - 26.01.2024 - REPUBLIC DAY	
	SUNDAY - 28.01.2024	
5	**January (29-31) February (1-3)**	Type study; common house lizard Type study; common house lizard Type study; common house lizard
	SUNDAY - 04.02.2024	

6	February (5-10)	Origin and Evolutionary Tree of Reptiles Extinct Reptiles Poisonous and Non-poisonous Snakes		

| SUNDAY - 11.02.2024 |||||

| 7 | February (12-13)
February (15-17) | Aves : Characters classification and Examples
Aves : Characters classification and Examples
Aves : Characters classification and Examples | | |

| HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI |||||
| SUNDAY - 18.02.2024 |||||

| 8 | February (19-24) | Type study - Pigeon
Type study - Pigeon
Type study - Pigeon | | |
| | | | | |

| SUNDAY - 25.02.2024 |||||

9	February (26-29) March (1-2)	Type study - Pigeon Class Test Assignment		

| SUNDAY - 03.03.2024 |||||

10	March (4-7) March (9)	Flight adaptations Principles of Aerodynamics in Bird Filght Migration in Birds		

| HOLIDAY - 08.03.2024 - MAHA SHIVRATRI |||||
| SUNDAY - 10.03.2024 |||||

11	March (11-16)	Mammals- Classification Type Study House Rat Type Study House Rat		

| SUNDAY - 17.03.2024 |||||

12	**March (18-22)**	Type Study House Rat Type Study House Rat Type Study House Rat

| **HOLI VACATION - 23.03.2024 - 31.03.2024**
(SHAHEEDI DIWAS - 23.03.2024) |||

13	**April (1-6)**	Class Test Assignment Revision

| **SUNDAY - 07.04.2024** |||

14	**April (8-10)** **April (12-13)**	Adaptive Radiations of Mammals Dentition Class Test

| **HOLIDAY - 11.04.2024 - ID-UL-FITR** |||
| **SUNDAY - 14.04.2024** |||

15	**April (15-16)** **April (18-20)**	Revision
		Revision
		Revision

| **HOLIDAY - 17.04.2024 - RAM NAVMI** |||
| **SUNDAY - 21.04.2024** |||

16	**April (22-27)**	Class Test
		Class Seminar
		Class Seminar

| **SUNDAY - 28.04.2024** |||

17	**April (29-30)**	Class Seminar
		Class Seminar
		Class Test

| **University Examinations w.e.f. 01.05.2024** |||

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

B.Sc.: 4th Semester

Name of the Paper: Mammalian Physiology-II   Class: B.Sc. 2nd Year

Name of the Teachers (Section Wise) : PAWAN KUMAR

WEEK	DATE	TOPICS
1	January (1-6)	
		Circulatory System
		Circulatory System
		Circulatory System
SUNDAY - 07.01.2024		
2	January (8-13)	
		Circulatory System
		Circulatory System
		Circulatory System
SUNDAY - 14.01.2024		
3	January (15-16) January (18-20)	
		Circulatory System
		Circulatory System
		Circulatory System
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
SUNDAY - 21.01.2024		
4	January (22-25) January (27)	
		Circulatory System
		Circulatory System
		Circulatory System
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		
5	January (29-31) February (1-3)	
		Class Test
		Respiratory system
		Respiratory system
SUNDAY - 04.02.2024		

6	**February (5-10)**	Respiratory system
		Respiratory system
		Respiratory system
SUNDAY - 11.02.2024		
7	**February (12-13)** **February (15-17)**	
		Assignment
		Class Test
		Excretory system
HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI		
SUNDAY - 18.02.2024		
8	**February (19-24)**	
		Excretory system
		Excretory system
		Excretory system
SUNDAY - 25.02.2024		
9	**February (26-29)** **March (1-2)**	
		Excretory system
		Excretory system
		Class Test
SUNDAY - 03.03.2024		
10	**March (4-7)** **March (9)**	
		Neural Integration
		Neural Integration
HOLIDAY - 08.03.2024 - MAHA SHIVRATRI		
SUNDAY - 10.03.2024		
11	**March (11-16)**	
		Neural Integration
		Neural Integration
		Neural Integration
SUNDAY - 17.03.2024		

12	March (18-22)	
		Neural Integration
		Neural Integration
		Neural Integration
HOLI VACATION - 23.03.2024 - 31.03.2024 **(SHAHEEDI DIWAS - 23.03.2024)**	

13	April (1-6)	
		Class Test
		Endocrinology
		Endocrinology

SUNDAY - 07.04.2024

14	April (8-10) April (12-13)	
		Endocrinology
		Endocrinology

HOLIDAY - 11.04.2024 - ID-UL-FITR

SUNDAY - 14.04.2024

15	April (15-16) April (18-20)	
		Endocrinology
		Endocrinology
		Class Test

HOLIDAY - 17.04.2024 - RAM NAVMI

SUNDAY - 21.04.2024

16	April (22-27)	
		Reproductive System
		Reproductive System
		Reproductive System

SUNDAY - 28.04.2024

17	April (29-30)	
		Revision
		Revision

University Examinations w.e.f. 01.05.2024

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV - Semester)

Name of the Paper:- Sanskrit Compulsory   Class: B.Sc.2nd Year

Name of the Teachers(Non Medical)- Dr. Anjali

WEEK	DATE	TOPICS
1	January (1-6)	धिक् दारिद्यं
SUNDAY - 07.01.2024		
2	January (8-13)	दण्ड: शास्ति प्रजा: सर्वा:
SUNDAY - 14.01.2024		
3	January (15-16) January (18-20)	स्थितप्रज्ञस्य का भाषा
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
SUNDAY - 21.01.2024		
4	January (22-25) January (27)	नीतिसूक्तय:
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		
5	January (29-31) February (1-3)	मैत्री पुनस्त्वीदृशी
SUNDAY - 04.02.2024		

6	February (5-10)	
		नाऽशिष्यायोपदिश्यते

SUNDAY - 11.02.2024

7	February (12-13) February (15-17)	
		दुर्जनसंगो भयावहः

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI

SUNDAY - 18.02.2024

8	February (19-24)	
		पराधिकारचर्चा परिवर्जयेत्

SUNDAY - 25.02.2024

9	February (26-29) March (1-2)	
		सुन्दोपसुन्दकथा

SUNDAY - 03.03.2024

10	March (4-7) March (9)	
		कुञ्जरःप्रलयं गतः

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI

SUNDAY - 10.03.2024

11	March (11-16)	धातुरूप (भू,अस्,कृ,गम्,पठ्,दृश्,स्था,स्पृश्)

SUNDAY - 17.03.2024

12	March (18-22)	
		अच् सन्धि (दीर्घ सन्धि)
HOLI VACATION - 23.03.2024 - 31.03.2024		
(SHAHEEDI DIWAS - 23.03.2024)		
13	April (1-6)	
		अच् सन्धि (पूर्वरूप सन्धि)
SUNDAY - 07.04.2024		
14	April (8-10) April (12-13)	
		अच् सन्धि (पररूप सन्धि)
HOLIDAY - 11.04.2024 - ID-UL-FITR		
SUNDAY - 14.04.2024		
15	April (15-16) April (18-20)	
		अच् सन्धि (प्रकृतिभाव सन्धि)
HOLIDAY - 17.04.2024 - RAM NAVMI		
SUNDAY - 21.04.2024		
16	April (22-27)	
		कक्षा परीक्षा
SUNDAY - 28.04.2024		
17	April (29-30)	
		Assignment 1 and 2
University Examinations w.e.f. 01.05.2024		

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester)

Name of the Paper:- Optics-II   Class: B.Sc. Non-Medical and Comp. Sc.IV Semester

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

WEEK	DATE	TOPICS
1	January (1-6)	Unit-1 Polarisation- Intoduction about Waves, Electric and magnetic field
		Introduction Continued- Discussion on Electromagnetic spectrum and wave, Maxwells Equation
SUNDAY - 07.01.2024		
2	January (8-13)	Polarization, Polarization by reflection, Malus Law
		Polarization by refraction, scattering
SUNDAY - 14.01.2024		
3	January (15-16) January (18-20)	Phenomenon of Double Refraction, Huygen's wave theory
		Analysis of polarized light.Nicol prism
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
SUNDAY - 21.01.2024		
4	January (22-25) January (27)	Quarter Wave plate and half wave plate. Production and detection of plane polarized light
		Production and detection of circularly and elliptically polarized light
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		
5	January (29-31) February (1-3)	Optical Activity, Fresnel's theory of optical rotation
		Specific rotation Polarimeters

SUNDAY - 04.02.2024		

6	**February (5-10)**	Unit-2, Fourier theoram and fourier series
		Evaluation of fourier coefficients, importance and limitations of Fourier theoram

SUNDAY - 11.02.2024	

7	**February (12-13)** **February (15-17)**	Even and Odd Functions
		Fourier series of functions f(x) between different limits

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI

SUNDAY - 18.02.2024

8	**February (19-24)**	Complex form of Fourier series
		Applications:Solution of triangular and rectangular waves

SUNDAY - 25.02.2024

9	**February (26-29)** **March (1-2)**	Solution of Half and full wave rectifier outputs
		Parseval identity for Fourier series, Fourier integrals

SUNDAY - 03.03.2024

10	**March (4-7)** **March (9)**	Problems on Unit 1 and 2
		Test of Unit-1 and 2

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI

SUNDAY - 10.03.2024

11	**March (11-16)**	Unit-3, Fourier transforms and properties
		Applications of fourier transforms-solving integrals

SUNDAY - 17.03.2024

12	March (18-22)	Applications in solving ordinary differential equations
		Applications to some specific functions

| **HOLI VACATION - 23.03.2024 - 31.03.2024** |
| **(SHAHEEDI DIWAS - 23.03.2024)** |

13	April (1-6)	Geometrical optics I:Matrix methods in paraxial optics, effects of translation and refraction
		Derivation of thin lens formulae, unit plane,nodal planes, system of thin lenses

| **SUNDAY - 07.04.2024** |

14	April (8-10) April (12-13)	Unit-IV:Geometrical Optics II: Different kinds of aberrations and remedies
		Continued aberrations

| **HOLIDAY - 11.04.2024 - ID-UL-FITR** |
| **SUNDAY - 14.04.2024** |

15	April (15-16) April (18-20)	Fiber Optics:Optical fiber, Critical angle of propogation, mode of propogation, acceptance angle
		Fractional refractive index change, Numerical aperture, types of optics fiber

| **HOLIDAY - 17.04.2024 - RAM NAVMI** |
| **SUNDAY - 21.04.2024** |

16	April (22-27)	Normalized frequency, Pulse dispersion, Attenuation
		Applications, fiber optic communication, Advantages

| **SUNDAY - 28.04.2024** |

17	April (29-30)	Problems on Unit 3 and 4
		Test of Unit-3 and 4

| **University Examinations w.e.f. 01.05.2024** |

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester)

Name of the Paper:- Special function An integral transformation   **Class: B.A/B.Sc II**

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

WEEK	DATE	TOPICS
1	January (1-6)	Laplace transformation
		basic defination and result
		exisstence theorem for laplace transformation
		linearity of linear transformation
		revision
SUNDAY - 07.01.2024	
2	January (8-13)	Shifting theorem
		laplace transformation of derivative
		laplace transformation of integrals
		Examples
		Examples
SUNDAY - 14.01.2024	
3	January (15-16) January (18-20)	Differentation and integration of laplace transformation
		Examples
		Examples
		Query of the examples based on above topic
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI	
SUNDAY - 21.01.2024	
4	January (22-25) January (27)	Inverse laplace transformation
		basic defination and result
		Examples
		Convolution theorem
		Examples
HOLIDAY - 26.01.2024 - REPUBLIC DAY	
SUNDAY - 28.01.2024	
5	January (29-31) February (1-3)	Inverse laplace transformation of derivatives
		Inverse laplace transformation of integrals
		Solution of ordinary differential equation using laplace
		Examples
		Examples
		Revision of chapter
SUNDAY - 04.02.2024	

6	**February (5-10)**	Fourier transformation
		basic defination and result
		Linearity properties
		Shifting theorem
		Examples
		Modulation theorem
SUNDAY - 11.02.2024		
7	**February (12-13)** **February (15-17)**	Convolution theorem
		Fourier transform of derivatives
		Relation between fourier and laplace transform
		Examples
HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI		
SUNDAY - 18.02.2024		
8	**February (19-24)**	Parseval identity for fourier transform
		solution of differential equations using Fourier transform
		Examples
		Examples
		Revision of chapter
SUNDAY - 25.02.2024		
9	**February (26-29)** **March (1-2)**	Series solution od differential equation
		shifting of summition index
		Analytic function
		Regular and irregular singular point
		Examples
		Examples
SUNDAY - 03.03.2024		
10	**March (4-7)** **March (9)**	Power series method
		Power series method
		Examples
		Examples
		Examples
HOLIDAY - 08.03.2024 - MAHA SHIVRATRI		
SUNDAY - 10.03.2024		
11	**March (11-16)**	Bessel function and their properties
		Convergence
		Recurrence relation
		Examples
		Examples
SUNDAY - 17.03.2024		

12	**March (18-22)**	Generating function
		Generating function
		Examples
		Examples

HOLI VACATION - 23.03.2024 - 31.03.2024	
(SHAHEEDI DIWAS - 23.03.2024)	

13	**April (1-6)**	Orthogonality of bessel function
		Orthogonality of bessel function
		Examples
		Doubts
		Class test

SUNDAY - 07.04.2024

14	**April (8-10)** **April (12-13)**	Legendre and hermite differential equation
		solution of legendre hermite differential equation
		Legendre and hermite differential equation
		solution of legendre hermite differential equation
		Examples

HOLIDAY - 11.04.2024 - ID-UL-FITR
SUNDAY - 14.04.2024

15	**April (15-16)** **April (18-20)**	properties of both function
		Recurrence relation
		Examples
		Revision of chapter

HOLIDAY - 17.04.2024 - RAM NAVMI
SUNDAY - 21.04.2024

16	**April (22-27)**	Generating function
		Orthogonality of legendre and hermite polynomials
		Roderigue formula
		laplace integral representationof legendre polynomials
		examples

SUNDAY - 28.04.2024

17	**April (29-30)**	Revision of chapter
		Class test

University Examinations w.e.f. 01.05.2024

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

PG (II / IV - Semester)

Name of the Paper:- Programming in C and Numerical Methods   Class: B.Sc. II

Name of the Teachers (Section Wise) : Bhawna

WEEK	DATE	TOPICS
1	January (1-6)	Computers: A General Introduction, Programmer's Model of a computer,
		Control unit, memory, types of memory, input and output devices, computer terminologies.
		Algorithm, its definition, characteristics of algorithms, examples based on algorithm
		Revision
		Flow chart
SUNDAY - 07.01.2024		
2	January (8-13)	Flowcharts, Advantages of flowcharts, conventions of flowcharts, limitations of flowcharts, examples based on flowcharts.
		Introduction to C language, its importance, C-character set, trigraph characters, C-tokens, keywords, constants,types of constants, escape sequence
		variables, rules for naming a variable and discussion
SUNDAY - 14.01.2024		
3	January (15-16) January (18-20)	examples of problems
		data types and different type of data type
		data type for integers and characters
		floating point type, qualifiers,
		void type and double type numbers
		Revision
SUNDAY - 21.01.2024		
4	January (22-25) January (27)	typedef declaration and enum
		declaration and programs
		printf function and examples
		scanf function and examples
		Revision
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		
5	January (29-31) February (1-3)	main function and new line character
		execution of c program
		operator and ecpressions and special operators types of operators
		precedence, cast operators, library functions, illustration of these concepts

		Decision Control Structures: Sequence, Selection, Iteration, if statement
SUNDAY - 04.02.2024		

6	**February (5-10)**	if else statement, nested if else statements, illustration of these concepts
		else-if ladder and programs
		switch statement and examples
		goto structure and examples
		Programs using Decision control structure
		Loops: definition, types, while statement: syntax, flow chart, programming

SUNDAY - 11.02.2024

7	**February (12-13) February (15-17)**	variation of sign, location of roots, theorems and questions based on i
		for loop: syntax, flow chart, programming examples, nested control Structure
		for loop: syntax, flow chart, programming examples, nested control Structure
		Revision
		test

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI

SUNDAY - 18.02.2024

8	**February (19-24)**	Structure
		structure and its programming examples.
		Break statement: syntax, programming examples, Continue statement: syntax,
		programming examples.
		Revision
		test

SUNDAY - 25.02.2024

9	**February (26-29) March (1-2)**	Functions: introduction, advantages, overview, Function definition,
		return statement: syntax, programming examples.
		Accessing a function,
		Function Prototyping: syntax, flow chart, programming Problems
		Test

SUNDAY - 03.03.2024

10	**March (4-7) March (9)**	examples, local and global variables, Recursion and programming examples based on it, discussion of other C programs.
		The C Preprocessor, file inclusion, macros, macros with arguments, macros versus function
		different types of directives, conditional compilation directives nesting of directives, some other directives.
		Test

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI

SUNDAY - 10.03.2024

11	**March (11-16)**	Arrays: definition, types, examples, declaration of arrays, initialization of array
		arrays, programming examples, two dimensional arrays, multi dimensional
		arrays, illustration of these concepts using programs in C, passing arrays to function
		functions and discussion of programming examples.

		Solution of Algebraic and Transcendental Equations, continuation
		Problem Discussion
SUNDAY - 17.03.2024		

12	**March (18-22)**	Test
		Bisection Method and questions based on it, Regula Falsi Method, convergence and questions based on it
		Secant Method and questions based on it
		Newton-Raphson Method, its order of convergence and questions based on it.
		Revision
HOLI VACATION - 23.03.2024 - 31.03.2024		
(SHAHEEDI DIWAS - 23.03.2024)		
13	**April (1-6)**	Arrays: definition, types, examples, declaration of arrays, initialization of array
		arrays, programming examples, two dimensional arrays, multi dimensional
		arrays, illustration of these concepts using programs in C, passing arrays to function
		functions and discussion of programming examples.
		Solution of Algebraic and Transcendental Equations, continuation
		Test
SUNDAY - 07.04.2024		
14	**April (8-10) April (12-13)**	variation of sign, location of roots, theorems and questions based on it,
		Bisection Method and questions based on it, Regula Falsi Method, convergence and questions based on it
		Secant Method and questions based on it
		Newton-Raphson Method, its order of convergence and questions based on it.
		Test
HOLIDAY - 11.04.2024 - ID-UL-FITR		
SUNDAY - 14.04.2024		
15	**April (15-16) April (18-20)**	Simultaneous Linear Algebraic Equations, Gauss Elimination Method
		Gauss Jordan Method and questions based on it,
		Triangularisation Method and questions based on it, Cholesky Decomposition
		Cholesky Decomposition Method and questions based on it and discussion of problems.
		Crout's Method and questions based on it, Jacobi's Method and
HOLIDAY - 17.04.2024 - RAM NAVMI		
SUNDAY - 21.04.2024		
16	**April (22-27)**	of Strings
		comparision of strings, programming examples based on strings,
		Structures and Unions: definition, declaration, initialization, dot and sizeof operator
		array of structures, structures and functions, illustration of concept of union
		Pointers: definition, declaration, pointers to pointers, pointer airthmetic,

		pointers and arrays, pointers as function arguments, function returning
SUNDAY - 28.04.2024	
17	**April (29-30)**	pointers, illustration of these concepts using programs in C.
		Pointers to Functions, Pointers and Structures
		Example based on Pointers and discussion of problems.
		Revision
University Examinations w.e.f. 01.05.2024	

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester)

Name of the Paper:- SEQUENCE AND SERIES   **Class: B.Sc.IInd**

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

WEEK	DATE	TOPICS
1	January (1-6)	Sets
		Bounded and Unbounded Sets
		Least upper bound and Greatest lower bound
		Theorems
		Theorems
		Revise
SUNDAY - 07.01.2024		
2	January (8-13)	Examples
		Problem Discussion
		Neighbourhood of a Point
		Theorems
		Problems
		Test
SUNDAY - 14.01.2024		
3	January (15-16) January (18-20)	Examples
		Interior Point of a Set
		Open Set
		Theorems
		Closed Sets
		Examples
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
SUNDAY - 21.01.2024		
4	January (22-25) January (27)	Limit Point
		Closures
		Theorems
		Problems
		TEST
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		
5	January (29-31) February (1-3)	Bolzano Weierstrass Theorem
		Theorems
		Examples
		Compact Set
		Cover and Open Cover
		Revision
SUNDAY - 04.02.2024		

		Theorems
6	**February (5-10)**	Examples
		Convergent Sequence and Divergent Sequence
		Oscillatory Sequence
		Examples
		Problems
SUNDAY - 11.02.2024		
7	**February (12-13)** **February (15-17)**	Basic Theorems of limits and Squeeze Principle
		Cauchy First Theorem
		Cauchy Second Theorem
		Examples
		Problems
HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI		
SUNDAY - 18.02.2024		
8	**February (19-24)**	MONOTONIC SEQUENCE
		Nested sequence
		Examples
		Limit Point of a Sequence
		Cauchy Sequence
		Examples
SUNDAY - 25.02.2024		
9	**February (26-29)** **March (1-2)**	Cauchy Sequence
		Problem Discussion
		Test
		Infinite Series
		Examples
		PROBLEM
SUNDAY - 03.03.2024		
10	**March (4-7)** **March (9)**	cauchy 's general principle of convergence
		Geometric Series
		Series of Positive terms
		Comparison Test, p-series Test
		Examples
		Revision
HOLIDAY - 08.03.2024 - MAHA SHIVRATRI		
SUNDAY - 10.03.2024		
11	**March (11-16)**	Problems
		D'Alemberts Ratio Test and Examples
		Cauchy Root Test and Examples
		Raabes Test and Examples
		Logarithmic Test and Examples
		De Morgan's Test and Gauss Test
SUNDAY - 17.03.2024		

		Problem disscussion
		Problem disscussion
12	March (18-22)	Cauchy Integral Test and Cauchy Condensation Test
		Alternating Series, Leibnitz's Test
		Absolute and Conditional Convergence
		problem

HOLI VACATION - 23.03.2024 - 31.03.2024	
(SHAHEEDI DIWAS - 23.03.2024)	

		Arbitrary Series, Abels Lemma, Abels Test
		Examples
13	April (1-6)	Dirichlet's Test and Examples
		Examples
		Problem

SUNDAY - 07.04.2024

	April (8-10)	Insertion and Removal of Parenthesis
		Examples
14		Riemann Arrangement Theorem
	April (12-13)	Multiplication of Series
		Revision
		Test

HOLIDAY - 11.04.2024 - ID-UL-FITR

SUNDAY - 14.04.2024

	April (15-16)	Cauchy Theorem
		Mertin's Theorem and Examples
15		Cauchy Theorem
	April (18-20)	Mertin's Theorem and Examples
		r

HOLIDAY - 17.04.2024 - RAM NAVMI

SUNDAY - 21.04.2024

		Infinite Product
		Sequence of Partial Sum
16	April (22-27)	General Principle of Convergence
		Theorems and Examples
		More Theorems on Infinite Product
		Examples and Problems

SUNDAY - 28.04.2024

		Examples and Problems
17	April (29-30)	Revision
		Revision
		Test

University Examinations w.e.f. 01.05.2024

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV - Semester)

Name of the Paper:- Sanskrit Compulsory   Class: B.Sc.2nd Year

Name of the Teachers (Section Wise) : Sonia Verma

WEEK	DATE	TOPICS
1	January (1-6)	धिक् दारिद्रयं
SUNDAY - 07.01.2024		
2	January (8-13)	दण्ड: शास्ति प्रजा: सर्वा:
SUNDAY - 14.01.2024		
3	January (15-16) January (18-20)	स्थितप्रज्ञस्य का भाषा
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
SUNDAY - 21.01.2024		
4	January (22-25) January (27)	नितिसूक्तय:
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		

5	January (29-31) February (1-3)	मैत्री पुनर्स्त्वीद्रशी

SUNDAY - 04.02.2024

6	February (5-10)	नाऽशिष्योपदिश्यते

SUNDAY - 11.02.2024

7	February (12-13)	दुर्जनसंगो भयावहः
	February (15-17)	

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI
SUNDAY - 18.02.2024

8	February (19-24)	पराधिकारचर्चा परिवर्जयेत्

SUNDAY - 25.02.2024

9	February (26-29)	सुन्दोपसुन्दकथा
	March (1-2)	

SUNDAY - 03.03.2024

10	March (4-7)	कुञ्जरःप्रलयं गतः
	March (9)	

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI
SUNDAY - 10.03.2024

11	March (11-16)	धातुरूप (भू,अस्,कृ,गम्,पठ्,दृश्,स्था,स्पृश्)

SUNDAY - 17.03.2024

12	March (18-22)	अच् सन्धि (दीर्घ सन्धि)

HOLI VACATION - 23.03.2024 - 31.03.2024
(SHAHEEDI DIWAS - 23.03.2024)

13	April (1-6)	अच् सन्धि (पूर्वरूप सन्धि)

SUNDAY - 07.04.2024

14	April (8-10) April (12-13)	अच् सन्धि (पररूप सन्धि)

HOLIDAY - 11.04.2024 - ID-UL-FITR
SUNDAY - 14.04.2024

15	April (15-16) April (18-20)	अच् सन्धि (प्रकृतिभाव सन्धि)

HOLIDAY - 17.04.2024 - RAM NAVMI
SUNDAY - 21.04.2024

16	April (22-27)	कक्षा परीक्षा

SUNDAY - 28.04.2024

17	April (29-30)	Assignment 1 and 2

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester)   IV

Name of the Paper:-   Statistical Physics   Class: B.SC

Name of the Teachers (Section Wise) : MS SONIA

WEEK	DATE	TOPICS
1	January (1-6)	Probability And Probability Theorems ,Some Probability Considerations, Combinations Possessing Maximum Probability Combinations Possessing Minimum Probability ,Tossing Of 2,3 And Any Number Of Coins ,Numerical Problems Distributions Of N(For N- 2,3,4)Distinguishable And Indistinguishable Particles In Two Box Of Equal Size
SUNDAY - 07.01.2024	
2	January (8-13)	Microstate And Microstate,Thermodynamical Probability,Constraints And Accessible States ,Statistical FluctuationsGeneral Distribution Of Distinguishable Particles In Compartment Of Different Sizes, Condition Of Equilibrium Between Two Systems In Thermal Contact- β Parameter
SUNDAY - 14.01.2024	
3	January (15-16) January (18-20)	Entropy And Probability (Boltzmann's Relation) ,Problem Discussion Statistical Physics -2 : Postulates Of Statistical Physics, Phase Space,Division Of Phase Space Into Cell ,Three Kinds Of Statistics Basic Approach In Three Statistics ,M.B Statistics Applied to An Ideal Gas In Equilibrium ,Energy Distribution Law
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI	
SUNDAY - 21.01.2024	
4	January (22-25) January (27)	M.B Statistics Applied To An Ideal Gas (Evaluation Of α And Expression Of Most Probable ,Expression For Average Speed,
HOLIDAY - 26.01.2024 - REPUBLIC DAY	
SUNDAY - 28.01.2024	
5	January (29-31) February (1-3)	Expression For R.M.S Speed ,Expression Of Average Velocity, for r.m.s velocity, mean energy for Maxwell distribution
SUNDAY - 04.02.2024	

6	February	(5-10)	problem discussion ,quantum statistics ;need for quantum statistics,Bose Einstein Energy Distribution Law
			Application Of B.E Statistics Of Planck's Radiation

SUNDAY - 11.02.2024

7	February	(12-13)	B.E Gas, Degeneracy, B.E Condensation
	February	(15-17)	Fermi Dirac Energy Distribution Law,

HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI
SUNDAY - 18.02.2024

8	February	(19-24)	Fermi Dirac Energy Distribution Law
			Fermi Dirac Gas, Degeneracy ,Fermi Energy And Fermi Temperature

SUNDAY - 25.02.2024

9	February	(26-29)	Fermi Dirac Energy Distribution Law For Electron Gas In Metals
	March	(1-2)	Zero Point Energy ,Zero Point Pressure

SUNDAY - 03.03.2024

10	March	(4-7)	Average Speed (At 0 K) Of Electron Gas ,Specific Heat Anomaly Of Metals And Its Solutions
	March	(9)	M.B Distributions as a limiting case of B.E And F.D Distributions

HOLIDAY - 08.03.2024 - MAHA SHIVRATRI
SUNDAY - 10.03.2024

11	March	(11-16)	Comparison Of Three Statistics ,Problem Discussion
			Conditional Test

SUNDAY - 17.03.2024

12	March	(18-22)	Theory Of Specific Heat Of Solids: Dulong And Petit Law
			Derivation Of Dulong And Petit Law From Classical Physics

| HOLI VACATION - 23.03.2024 - 31.03.2024 |
| (SHAHEEDI DIWAS - 23.03.2024) |

13	April	(1-6)	Specific Heat At Low Temperature
			Einstein Theory Of Specific Heat

| SUNDAY - 07.04.2024 |

14	April	(8-10)	Criticism Of Einstein Theory
	April	(12-13)	Debye Model Of Specific Heat Of Solids

| HOLIDAY - 11.04.2024 - ID-UL-FITR |
| SUNDAY - 14.04.2024 |

15	April	(15-16)	Success And Short Coming Of Debye Theory
	April	(18-20)	Comparison of Einstein And Debye Theories, Numerical Problems

| HOLIDAY - 17.04.2024 - RAM NAVMI |
| SUNDAY - 21.04.2024 |

16	April	(22-27)	Revision and group discussion
			group discussion

| SUNDAY - 28.04.2024 |

17	April	(29-30)	Revision and group discussion

| University Examinations w.e.f. 01.05.2024 |