

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

Name of the Paper:- Bioinformatics

Class: BSc-II

Name of the Teachers (Section Wise) : Anjushree

WEEK	DATE	TOPICS
1	February (1-4)	
		History scope and importance of bioinformatics
		History scope and importance of bioinformatics
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	
		History scope and importance of bioinformatics
		Introduction to Genomics
		Information flow in biology
SUNDAY - 12.02.2023		
3	February (13-17)	
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	
		Information flow in biology
		DNA sequence data
		DNA sequence data
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	
		Experimental approach to genome sequence data.
		Experimental approach to genome sequence data.
		Genome information resources
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	
		Genome information resources
		Functional Proteomics: introduction
		Functional Proteomics: introduction
SUNDAY - 19.03.2023		

8	March (20-25)	
		Test
		Structural data
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	
		Protein information resources
		Secondary data bases
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	
		Secondary data bases
		Computational Genomics: Internet basics
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	
		Computational Genomics: Internet basics
		Assignments
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	
		Protein information resources
		Sequence data bases
SUNDAY - 23.04.2023		
Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	
		NCBI model
		Structural data bases: small molecules data bases File format
SUNDAY - 30.04.2023		
13	May (1-6)	
		Sequence alignment and data bases search Algorithm, BLAST
		Multiple sequence alignment
SUNDAY - 07.05.2023		
14	May (8-13)	
		Protein Data bank Biological data analysis and application
		Predictive methods of using DNA and Protein sequences
SUNDAY - 14.05.2023		
14	May (15-16)	
Examination 17.05.2023 Onwards.		

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LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

Name of the Paper:- Recombinant DNA Technology Class: BSc-II

Name of the Teachers (Section Wise) : Anjushree

WEEK	DATE	TOPICS
1	February (1-4)	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 - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Tools of Recombinant DNA technology: Steps in gene cloning
		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
SUNDAY - 12.02.2023		
3	February (13-17)	Ligases, polymerases,alkaline phosphatases, kinases, transferases and other DNA engineering enzymes
		Plasmid vectors
		Bacteriophage, cosmids and phagemids.
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Properties of host.
		M13 vectors
		Expression vectors, shuttle vectors
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Vectors for cloning in eukaryotic cells, YACs and BACs
		In vitro construction of r-DNA molecules: Isolation of gene of interest
		Isolation of Vector DNA
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	cohesive and blunt ends, modification of cut ends
		linkers and adaptors
		Integration of DNA inserts into the vectors.
SUNDAY - 19.03.2023		

8	March (20-25)	Transformation: Techniques of introducing r-DNA into the desired host, competent cells
		electroporation and microinjection
		Screening and selection of transformants, immunological screening
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Colony hybridization. Marker genes- selectable and scorable markers.
		Gene Libraries: Construction of Genomic and cDNA library
		Advantages and limitations, Screening of gene libraries
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	DNA amplification through PCR: Basic features and applications of PCR, types and modifications
		Assignments
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Site directed mutagenesis
		Southern and Northern analysis, DNA finger printing. PAGE
		Western blotting, dot blots and slot blots. RFLP, RAPD (brief only), microarrays.
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	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
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Increasing protein yield-factors affecting level of recombinant protein production
		Production of recombinant proteins in E. coli
		Production of recombinant proteins in E. coli
SUNDAY - 30.04.2023		
13	May (1-6)	Translational and transcriptional fusion- advantages and disadvantages.
		Applications of Recombinant DNA technology
		Applications of Recombinant DNA technology
SUNDAY - 07.05.2023		
14	May (8-13)	Applications of Recombinant DNA technology
		Applications of Recombinant DNA technology
		Revision
SUNDAY - 14.05.2023		
14	May (15-16)	Revision
		Test
Examination 17.05.2023 Onwards.		

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LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

Name of the Paper:- Mammalian Physiology

Class: IInd Year

Name of the Teachers (Section Wise) : Bhawna Malik

WEEK	DATE	TOPICS
1	February (1-4)	
		Circulatory System
		Circulatory System
		Circulatory System
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	
		Circulatory System
		Circulatory System
SUNDAY - 12.02.2023		
3	February (13-17)	
		Circulatory System
		Circulatory System
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	
		Circulatory System
		Circulatory System
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	
		Respiratory system
		Respiratory system
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	
		Respiratory system
		Assignment
SUNDAY - 19.03.2023		

8	March (20-25)	
		Excretory system
		Excretory system
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	
		Excretory system
		Excretory system
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	
		Excretory system
		Class Test
		revision
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	
		Neural Integration
		Neural Integration
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	
		Neural Integration
		Neural Integration
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	
		Endocrinology
		Endocrinology
SUNDAY - 30.04.2023		
13	May (1-6)	
		Reproductive System
		Reproductive System
SUNDAY - 07.05.2023		
14	May (8-13)	
		Reproductive System
		Class Test
SUNDAY - 14.05.2023		
14	May (15-16)	
Examination 17.05.2023 Onwards.		

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LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II / IV / VI - Semester) IV

Name of the Paper:- PLANT EMBRYOLOGY

Class: B.Sc IV th Sem

Name of the Teachers (Section Wise) :RAJNI

WEEK	DATE	TOPICS
1	February (1-4)	
		Introduction of Flower-a modified shoot
		Introduction of Flower-a modified shoot
		Functions of various floral parts.
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	
		Functions of various floral parts.
		Microsporangium Structure
		Microsporangium wall and dehiscence mechanism.
SUNDAY - 12.02.2023		
3	February (13-17)	
		Microsporangium wall and dehiscence mechanism.
		Microsporogenesis, pollen grain Structure
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	
		Microsporogenesis, pollen grain Structure
		Microsporogenesis- structure (pollen wall).
		Microsporogenesis- structure (pollen wall).
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	
		Pollen-pistil interaction.
		Pollen-pistil interaction.
		Pollen-pistil interaction.
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	
		Pollen -self incompatibility.
		Pollen -self incompatibility.
		Pollen germination (microgametogenesis).
SUNDAY - 19.03.2023		

8	March (20-25)	
		Pollen germination (microgametogenesis).
		Pollination Types
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	
		Pollination Types
		Pollination Types
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	
		Male gametophyte.
		Male gametophyte.
		Structure of Megasporangium (ovule).
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	
		Conditional Test
		Megasporangium curvatures.
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	
		Megasporogenesis and Megagametogenesis.
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	
		Female gametophyte -mono-, bi and Tetrasporic
		Female gametophyte -mono-, bi and Tetrasporic
SUNDAY - 30.04.2023		
13	May (1-6)	
		Structure of Megasporangium (ovule).
		Embryogenesis in Dicot.
	Embryogenesis in monocot	
SUNDAY - 07.05.2023		
14	May (8-13)	
		Embryogenesis in polyembryony.
		Structure of Dicot and Monocot seed.
	Fruit Types And Dispersal	
SUNDAY - 14.05.2023		
14	May (15-16)	Fruit Types And Dispersal
		Revision
Examination 17.05.2023 Onwards.		

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LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

Name of the Paper:- OPERATING SYSTEMS

Class: B.SC (CS)

Name of the Teachers (Section Wise) : PROF. NEETU

WEEK	DATE	TOPICS
1	February (1-4)	
		Introductory Concepts: Operating system functions and characteristics, historical evolution of operating systems,
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	
		Real time systems, Distributed systems, Methodologies for implementation of O/S service system calls, system programs.
		Revision
SUNDAY - 12.02.2023		
3	February (13-17)	
		Process management: Process concepts, Process states and Process Control Block.
		CPU Scheduling: Scheduling criteria, Levels of Scheduling,
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	
		Scheduling algorithms, Multiple processor scheduling.
		Revision
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	
		Deadlocks: Deadlock characterization, Deadlock prevention and avoidance, Deadlock detection and recovery,
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	
		practical considerations.
		Concurrent Processes: Critical section problem, Revision
SUNDAY - 19.03.2023		

8	March (20-25)	
		Semaphores,
		Classical process co-ordination problems and their solutions,
		Revision
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	
		Inter-process Communications.
		Storage Management: memory management of single-user and multiuser operating system,
		ASSIGNMENT - 1
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	
		partitioning, swapping,
		Paging and segmentation,
		Revision
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	
		virtual memory, Page replacement Algorithms,
		Thrashing.
		CONDITIONAL TEST
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	
		Device and file management:
		Disk scheduling,
		Disk scheduling,
SUNDAY - 23.04.2023		
Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	
		Disk structure, Disk management,
		File Systems: Functions of the system,
		Revision
SUNDAY - 30.04.2023		
13	May (1-6)	
		File access and allocation methods,
		Directory Systems: Structured Organizations,
		ASSIGNMENT - 2
SUNDAY - 07.05.2023		
14	May (8-13)	
		Directory and file protection mechanisms.
		Queries on Problem
		Queries on Problem
SUNDAY - 14.05.2023		
14	May (15-16)	Queries on Problem
		Queries on Problem
Examination 17.05.2023 Onwards.		

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LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II / IV / VI - Semester) 4th Semester

Name of the Paper:- Relational Data Base Management System

Class:Bsc (CS)

Name of the Teachers (Section Wise) :MILAN SHARMA

WEEK	DATE	TOPICS
1	February (1-4)	Relational Model Concepts, Codd's Rules for Relational Model
		Hierarchical Data Model– Introduction, Features
		Components, Example
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	
		Network Data Model– Introduction
		Features,Components, Example
		Differences between Hierarchical Data Model and Network Data Model
SUNDAY - 12.02.2023		
3	February (13-17)	
		Comparison of Relational Data Model with Hierarchical Data Model and Network Data Model
		Relational Algebra
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	
		Selection and Projection
		Set Operation
		ASSIGNMENT-1
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	
		Application Join and Division
		Relational Calculus
		Tuple Relational Calculus and Domain Relational Calculus.
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	
		Private sector interface in E governance. Applications in B2C
		Functional Dependencies and Normalization
		Purpose, Data Redundancy
SUNDAY - 19.03.2023		
8	March (20-25)	
		CONDITIONAL TEST
		Update Anomalies
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		

9	March (27-31)	
	April (1)	Partial/Fully Functional Dependencies
		Transitive Functional Dependencies
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	
		Characteristics of Functional Dependencies
		Decomposition and Normal Forms (1NF, 2NF, 3NF & BCNF)
ASSIGNMENT-2		
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	
		SQL: Data Definition and data types
		Create Table, Insert Data, Viewing Data, Filtering Table Data
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	
		Sorting data, Creating Table from a Table
		Destroy table, Update, View, Delete
SUNDAY - 23.04.2023		
Holiday Id-Ui-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	
		Join, Concatenating data from Table Specifying Constraints in SQL
		Unique Key, Primary Key, Foreign Key, Check Constraint, Using Functions
SUNDAY - 30.04.2023		
13	May (1-6)	
		PL/SQL-Introduction, Advantages of PL/SQL
		The Generic PL/SQL Block: PL/SQL Execution Environment; PL/SQL Character Set and Data Types, Declaration and Assignment of Variables
SUNDAY - 07.05.2023		
14	May (8-13)	
		Control Structure in PL/SQL
		Conditional Control, Iterative Control Sequential Control
SUNDAY - 14.05.2023		
14	May (15-16)	
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II / IV / VI - Semester) चतुर्थ सेमेस्टर

Name of the Paper:- हिंदी

Class: बी .एस सी . द्वितीय वर्ष

Name of the Teachers (Section Wise) : डॉक्टर रेखा रानी

WEEK	DATE	TOPICS
1	February (1-4)	डॉक्टर राम कुमार वर्मा साहित्यिक परिचय ।
		एकांकी औरंगज़ेब की आखिरी रात ।
		एकांकी औरंगज़ेब की आखिरी रात व्याख्या।
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	एकांकी औरंगज़ेब की आखिरी रात व्याख्या।
		एकांकी औरंगज़ेब की आखिरी रात व्याख्या।
		डॉ. राम कुमार वर्मा साहित्यिक परिचय प्रथम असाइनमेंट।
SUNDAY - 12.02.2023		
3	February (13-17)	उपेन्द्रनाथ अशक साहित्यिक परिचय।
		एकांकी लक्ष्मी का स्वागत व्याख्या।
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	एकांकी लक्ष्मी का स्वागत व्याख्या।
		एकांकी लक्ष्मी का स्वागत व्याख्या।
		मौखिक परीक्षा।
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	जगदीश चन्द्र माथुर साहित्यिक परिचय ।
		एकांकी रीढ़ की हड्डी ही व्याख्या।
		एकांकी रीढ़ की हड्डी ही व्याख्या।
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	लक्ष्मी नारायण लाल साहित्यिक परिचय।
		एकांकी बसन्त ऋतु का नाटक व्याख्या।
		एकांकी बसन्त ऋतु का नाटक व्याख्या।
SUNDAY - 19.03.2023		

8	March (20-25)	
		विष्णु प्रभाकर साहित्यिक परिचय। लिखित परीक्षा।
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	
		एकांकी संस्कार और भावना व्याख्या। एकांकी संस्कार और भावना व्याख्या।
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	
		मोहन राकेश साहित्यिक परिचय। एकांकी बहुत बड़ा सवाल व्याख्या। एकांकी बहुत बड़ा सवाल व्याख्या।
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	
		निबंध महिलाधिकार, गांधी दर्शन। लिखित परीक्षा।
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	
		निबंध शिक्षा और राजनीति, विज्ञान और पर्यावरण प्रदूषण। निबंध विश्व विख्यात वैज्ञानिक और उनके अविष्कार।
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	
		निबंध आकाशवाणी। विज्ञान और पर्यावरण प्रदूषण द्वितीय असाइनमेंट निबंध कंप्यूटर तथा इंटरनेट।
SUNDAY - 30.04.2023		
13	May (1-6)	
		निबंध जनसंख्या विस्फोट। अर्ध-सरकारी पत्र। अर्ध-सरकारी पत्र।
SUNDAY - 07.05.2023		
14	May (8-13)	
		तार लेखन। तार लेखन। वैज्ञानिक शब्दावली।
SUNDAY - 14.05.2023		
14	May (15-16)	वैज्ञानिक शब्दावली।
		पुनरावृत्ति।
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper:- Programming in C and Numerical Methods Class: B.Sc 2nd

Name of the Teachers (Section Wise) : Prof Deepali

WEEK	DATE	TOPICS
1	February (1-4)	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
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	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 - 12.02.2023		
3	February (13-17)	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
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	variable declaration
		typedef declaration and enum
		declaration and programs
		printf function and examples
		scanf function and examples
		use of comments and programs
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	main function and new line character
		execution of c program
		operator and epressions and special operators
		types of operators
		precedence, cast operators, library functions, illustration of these concepts
		Decision Control Structures: Sequence, Selection, Iteration, if statement
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		

7	March (13-18)	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 - 19.03.2023		
8	March (20-25)	examples, do-while statement: syntax, flow chart, programming examples,
		for loop: syntax, flow chart, programming examples, nested control Structure
		structure and its programming examples.
		Break statement: syntax, programming examples, Continue statement: syntax,
		programming examples.
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31)	Functions: introduction, advantages, overview, Function definition, return statement: syntax, programming examples.
		Accessing a function,
	April (1)	Function Prototyping: syntax, flow chart, programming
		Problems
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	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.
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	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
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	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.
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	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 questions
		Gauss Seidel Method and questions based on it, Relaxation method
SUNDAY - 30.04.2023		

13	May (1-6)	Puppetting of strings, reading strings, writing strings, concatenation 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 - 07.05.2023		
14	May (8-13)	pointers, illustration of these concepts using programs in C.
		Pointers to Functions, Pointers and Structures
		Example based on Pointers and discussion of problems.
		Doubts of Unit 1
		Doubts of Unit 2
Doubts of Unit 3		
SUNDAY - 14.05.2023		
14	May (15-16)	Doubts of Unit 4
		Revision
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

Name of the Paper:-Statistical Physics

Class:B.Sc-II(Physics)

Name of the teacher(Section wise):Ms Sonia

WEEK	DATE	TOPICS
1	February (1-4)	Microscopic and Macroscopic systems, events-mutually exclusive, dependent and independent. Probability, statistical probability
		A- priori Probability and relation between them, probability theorems, some probability considerations, combinations
		possessing maximum probability
		combination possessing minimum probability, Tossing of 2,3 and any number of Coins, Permutations and combinations,
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	distributions of distinguishable and indistinguishable particles in two boxes of equal size ,Micro and Macro states, Thermodynamical probability
		Constraints and Accessible states, Statistical fluctuations, general distribution of distinguishable particles in compartments
		of different sizes,
		Condition of equilibrium between two systems in thermal contact-- β parameter
SUNDAY - 12.02.2023		
3	February (13-17)	Entropy and Probability (Boltzman's relation)
		Numerical Problems
		Postulates of statistical physics, Phase space
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Division of Phase space into cells, three kinds of statistics, basic approach in three statistics.
		M. B. statistics applied to an ideal gas in equilibrium- energy distribution law
		M. B. statistics applied to an ideal gas in equilibrium- energy distribution law
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	M. B. statistics applied to an ideal gas in equilibrium- energy distribution law
		including evaluation of α and β) Speed distribution law and velocity distribution law
		Expression for average speed, r.m.s. speed, average velocity, r. m. s. velocity
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	most probable energy & mean energy for Maxwellian distribution.
		Need for Quantum Statistics: Bose-Einstein energy distribution law
		Application of B.E. statistics to Planck's radiation law
SUNDAY - 19.03.2023		

8	March (20-25)	B.E. gas, Degeneracy and B.E. Condensation,
		Fermi Dirac energy distribution law,
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Fermi Dirac gas and Degeneracy
		Fermi energy and fermi temperture
		Fermi energy and fermi temperture
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Fermi Dirac energy distriubtion law for electron gas in metal ,zero point energy,Zero point pressure
		Average speed of electron gas, Distribution as a limiting case of B.E and F.D. distributions,
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	specific heat anomaly of metals and its solution Comparison of three statistics..
		Comparison of three statistics.
		conditional test
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Numerical Problems
		Theory of Specific Heat of Solids Dulong and Petit law
		Derivation of Dulong and Petit law from classical physics
SUNDAY - 23.04.2023		
Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Specific heat at low temperature
		Einstein theory of specific heat
		Einstein theory of specific heat
SUNDAY - 30.04.2023		
13	May (1-6)	Criticism of Einstein theory ,Debye model of specific heat of solids
		success and shortcomings of Debye theory,
		comparison of Einstein and Debye theories.
SUNDAY - 07.05.2023		
14	May (8-13)	Numerical problems
		Revision
		Revision
SUNDAY - 14.05.2023		
14	May (15-16)	Revision
		Revision
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

Name of the Paper:- BIOLOGY AND DIVERSITY OF SEED PLANTS-II Class: BSc.-II (M)

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

WEEK	DATE	TOPICS
1	February (1-4)	Taxonomy and Systematics-Introduction
		Taxonomy and Systematics-Introduction
		Identification, Classification, Description, Nomenclature, Phylogeny- Introduction
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Identification, Classification, Description, Nomenclature, Phylogeny- Introduction
		Chemotaxonomy and its Role in Taxonomy
		Cytotaxonomy-Role in Taxonomy
SUNDAY - 12.02.2023		
3	February (13-17)	Taximetrics-Concept and Applications
		Botanical Nomenclature
		Botanical Nomenclature- contd.
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Principle of Priority
		Principle of Priority
		Principle of Priority-Continued
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Assignment
		Type Concept
		Type Concept contd., Taxonomic Ranks
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Taxonomic Keys-I
		Taxonomic Keys-II
		Taxonomic Keys-III
SUNDAY - 19.03.2023		
8	March (20-25)	Flower-Its Types and Important Terms-1
		Flower-Its Types and Important Terms-2
		Inflorescence and Types-1

SUNDAY - 26.03.2023		
		HOLIDAY 23.03.2023 Shaheedi Diwas
9	March (27-31) April (1)	Inflorescence and Types-2
		Classification of Angiosperms Introduction-Types
		Bentham and Hooker's System -1
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Bentham and Hooker's System -II
		Engler & Prantl's System
		Ranunculaceae
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Brassicaceae
		Malvaceae
		Class Test
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	
SUNDAY - 23.04.2023		
Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Euphorbiaceae
		Rutaceae
		Assignment
SUNDAY - 30.04.2023		
13	May (1-6)	Leguminosae-I
		Leguminosae-II, III
		Apiaceae
SUNDAY - 07.05.2023		
14	May (8-13)	Asclepiadaceae
		Lamiaceae
		Solanaceae
SUNDAY - 14.05.2023		
14	May (15-16)	Asteraceae- 1
		Liliaceae
Examination 17.05.2023 Onwards.		

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LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

Name of the Paper:- Organic Chemistry Class: B.Sc-II(M)

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

WEEK	DATE	TOPICS
1	February (1-4)	Infrared (IR) absorption spectroscopy Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region, characteristic absorptions of various functional groups and
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Applications of IR spectroscopy in structure elucidation of simple organic compounds. Amines Structure and nomenclature of amines, physical properties. Separation of a mixture of primary, secondary and tertiary amines.
SUNDAY - 12.02.2023		
3	February (13-17)	Separation of a mixture of primary, secondary and tertiary amines. Structural features affecting basicity of amines.
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Preparation of alkyl and aryl amines (reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds. Gabriel phthalimide reaction, Hofmann bromamide reaction. Electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Diazonium Salts Mechanism of diazotisation, structure of benzene diazonium chloride,
SUNDAY - 19.03.2023		
8	March (20-25)	Replacement of diazo group by H, OH, F, Cl, Br, I, NO ₂ and CN groups,
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		

9	March (27-31) April (1)	reduction of diazonium salts to hydrazines, coupling reaction and its synthetic application.
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Aldehydes and Ketones Nomenclature and structure of the carbonyl group.
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Synthesis of aldehydes and ketones with particular reference to the synthesis of aldehydes from acid chlorides,
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	advantage of oxidation of alcohols with chromium trioxide (Sarett reagent) pyridinium chlorochromate (PCC) and pyridinium dichromate. Physical properties,
SUNDAY - 23.04.2023		
Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Comparison of reactivities of aldehydes and ketones. Mechanism of nucleophilic additions to carbonyl group with particular emphasis on benzoin, aldol,
SUNDAY - 30.04.2023		
13	May (1-6)	Perkin and Knoevenagel condensations. Condensation with ammonia and its derivatives. Wittig reaction
SUNDAY - 07.05.2023		
14	May (8-13)	Mannich reaction.Oxidation of aldehydes, Baeyer–Villiger oxidation of ketones, Cannizzaro reaction. MPV, Clemmensen, Wolff Kishner, LiAlH ₄ and NaBH ₄ reductions.
SUNDAY - 14.05.2023		
14	May (15-16)	Revision,Class Test
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

Name of the Paper Inorganic Chemistry Class: B.Sc-II(M)

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

WEEK	DATE	TOPICS
1	February (1-4)	Chemistry of f-Block elements Lanthanides: Electronic structure, oxidation states, magnetic properties,
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	complex formation, colour, ionic radii and lanthanide contraction,
SUNDAY - 12.02.2023		
3	February (13-17)	occurrence, separation of lanthanides, Lanthanide compounds.
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Actinides: General characteristics of actinides, chemistry of separation of Np
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	,Pu and Am from uranium, Transuranic elements,
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	comparison of properties of Lanthanides and actinides with transition elements
SUNDAY - 19.03.2023		

8	March (20-25)	Theory of Qualitative and Quantitative Analysis Chemistry of analysis of various groups of basic and acidic radicals
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	chemistry of identification of acid radicals in typical combination
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	chemistry of interference of acid radicals including their removal in the analysis of basic radicals(i)
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	chemistry of interference of acid radicals including their removal in the analysis of basic radicals(ii)
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	chemistry of interference of acid radicals including their removal in the analysis of basic radicals(iii)
SUNDAY - 23.04.2023		
Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	chemistry of interference of acid radicals including their removal in the analysis of basic radicals (iv)
SUNDAY - 30.04.2023		
13	May (1-6)	common ion effect, solubility product,
SUNDAY - 07.05.2023		
14	May (8-13)	theory of precipitation, co-precipitation, post precipitation, purification of precipitates
SUNDAY - 14.05.2023		
14	May (15-16)	Revision, Class test
Examination 17.05.2023 Onwards.		

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LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

Name of the Paper:- Sanskrit Compulsory Class: BSc.-II (M)

Name of the Teachers (Section Wise) : Sonia Verma

WEEK	DATE	TOPICS
1	February (1-4)	धिक् दारिद्र्यं पाठ का परिचय
		धिक् दारिद्र्यं पाठ श्लोक 1-5
		धिक् दारिद्र्यं पाठ श्लोक 6-10
		धिक् दारिद्र्यं पाठ श्लोक 11-15
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	धिक् दारिद्र्यं पाठ श्लोक 16-20
		दण्डः शास्ति प्रजाः सर्वाः पाठ का परिचय
		दण्डः शास्ति प्रजाः सर्वाः पाठ 1-5 श्लोक
		दण्डः शास्ति प्रजाः सर्वाः पाठ 6-10 श्लोक
		दण्डः शास्ति प्रजाः सर्वाः पाठ 11-15 श्लोक
SUNDAY - 12.02.2023		
3	February (13-17)	दण्डः शास्ति प्रजाः सर्वाः पाठ 20-24 श्लोक
		स्थितप्रज्ञस्य का भाषा पाठ का परिचय
		स्थितप्रज्ञस्य का भाषा पाठ 1-5 श्लोक
		स्थितप्रज्ञस्य का भाषा पाठ 6-10 श्लोक
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	स्थितप्रज्ञस्य का भाषा पाठ 16-18 श्लोक
		नितिसूक्तयः पाठ का परिचय
		नितिसूक्तयः पाठ के श्लोक 1-5
		नितिसूक्तयः पाठ के श्लोक 6-10
		नितिसूक्तयः पाठ के श्लोक 11-15
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	मैत्री पुन्स्त्वीदृशी पाठ का परिचय
		मैत्री पुन्स्त्वीदृशी पाठ के श्लोक 1-5
		मैत्री पुन्स्त्वीदृशी पाठ के श्लोक 6-9
		नाऽशिष्योपदिश्यते पाठ का परिचय
		नाऽशिष्योपदिश्यते पाठ का अनुवाद
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	दुर्जनसंगो भयावहः पाठ का सार
		दुर्जनसंगो भयावहः पाठ का अनुवाद
		पराधिकारचर्चा परिवर्जयेत् पाठ का परिचय
		पराधिकारचर्चा परिवर्जयेत् पाठ का अनुवाद
		पराधिकारचर्चा परिवर्जयेत् पाठ का अनुवाद
Revision		
SUNDAY - 19.03.2023		

8	March (20-25)	Conditational Test
		Assignment 1&2
		सुन्दोपसुन्दकथा का परिचय
		सुन्दोपसुन्दकथा का अनुवाद
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	कुञ्जरःप्रलयं गतः पाठ का परिचय
		कुञ्जरःप्रलयं गतः पाठ का अनुवाद
		कुञ्जरःप्रलयं गतः पाठ का अनुवाद
		कुञ्जरःप्रलयं गतः पाठ का अनुवाद धातुरूप (भू,अस्,कृ)
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	धातुरूप (गम्,पठ्,दृश्)
		धातुरूप (स्था,स्पृश्)
		revision
		अच् सन्धि (दीर्घ सन्धि) अच् सन्धि (पूर्वरूप सन्धि)
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Revision
		Revision
		Revision
		Revision
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Revision
		Revision
		Revision
		Revision
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Revision
		Revision
		Revision
		Revision
SUNDAY - 30.04.2023		
13	May (1-6)	Revision
		Revision
		Revision
		Revision
SUNDAY - 07.05.2023		
14	May (8-13)	Revision
		Revision
		Revision
		Revision
SUNDAY - 14.05.2023		
14	May (15-16)	Revision
		Revision
Examination 17.05.2023 Onwards.		

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LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester

Name of the Paper:- Life and Biodiversity of Chordates-II Class: B.Sc IIInd year(M)

Name of the Teachers (Section Wise) : SHIVANI

WEEK	DATE	TOPICS
1	February (1-4)	Class Amphibia: Characters Classification and Examples
		Amphibia: Rana tigrina (Type study)
		Amphibia: Rana tigrina (Type study)
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Frog :continued
		Frog :continued
		Frog :continued
SUNDAY - 12.02.2023		
3	February (13-17)	Frog :continued
		Frog :continued
		Frog :continued
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Frog :continued
		Frog :continued
		Frog :continued
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Frog :continued
		Aves : Characters classification and Examples
		Amphibia in General
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Type study Pigeon
		Type study Pigeon
		Type study Pigeon
SUNDAY - 19.03.2023		

8	March (20-25)	Type study Pigeon
		Type study Pigeon
		Type study Pigeon
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Aves in General
		Class Mammalia Characters Clasification and Examples
		Type Study House Rat
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Type Study House Rat
		Type Study House Rat
		ASSIGNMENT
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Reptilia :characters,classification, and examples
		Type study; common house lizard
		Type study; common house lizard
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Type study; common house lizard
		Type study; common house lizard
		Type study; common house lizard
SUNDAY - 23.04.2023		
Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Type study; common house lizard
		Reptilia in General
		Reptilia in General
SUNDAY - 30.04.2023		
13	May (1-6)	Revision
		Revision
		Revision
SUNDAY - 07.05.2023		
14	May (8-13)	Test
		Revision
		Revision
SUNDAY - 14.05.2023		
14	May (15-16)	Revision
		Revision
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

Name of the Paper:- Organic Chemistry

Class: B.Sc -II

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

WEEK	DATE	TOPICS
1	February (1-4)	Infrared (IR) absorption spectroscopy Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum,
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Applications of IR spectroscopy in structure elucidation of simple organic compounds. Amines Structure and nomenclature of amines, physical properties.
SUNDAY - 12.02.2023		
3	February (13-17)	Separation of a mixture of primary, secondary and tertiary amines. Structural features affecting basicity of amines.
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Preparation of alkyl and aryl amines (reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds. Gabriel phthalimide reaction, Hofmann bromamide reaction.
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Diazonium Salts Mechanism of diazotisation, structure of benzene diazonium chloride,
SUNDAY - 19.03.2023		

8	March (20-25)	Replacement of diazo group by H, OH, F, Cl, Br, I, NO ₂ and CN groups,
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application.
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Aldehydes and Ketones Nomenclature and structure of the carbonyl group.
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Synthesis of aldehydes and ketones with particular reference to the synthesis of aldehydes from acid chlorides,
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Advantage of oxidation of alcohols with chromic trioxide (Sarett reagent) pyridinium chlorochromate (PCC) and pyridinium dichromate. Physical properties,
SUNDAY - 23.04.2023		
Holiday Id-Ui-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Comparison of reactivities of aldehydes and ketones. Mechanism of nucleophilic additions to carbonyl group with particular emphasis on benzoin, aldol,
SUNDAY - 30.04.2023		
13	May (1-6)	Perkin and Knoevenagel condensations. Condensation with ammonia and its derivatives. Wittig reaction
SUNDAY - 07.05.2023		
14	May (8-13)	Mannich reaction.Oxidation of aldehydes, Baeyer–Villiger oxidation of ketones, Cannizzaro reaction. MPV, Clemmensen, Wolff Kishner, LiAlH ₄ and NaBH ₄ reductions.
SUNDAY - 14.05.2023		
14	May (15-16)	Revision,Class Test
Examination 17.05.2023 Onwards.		

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LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

Name of the Paper Inorganic Chemistry Class: B.Sc -II

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

WEEK	DATE	TOPICS
1	February (1-4)	Chemistry of f-Block elements Lanthanides: Electronic structure, oxidation states, magnetic properties,
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	complex formation, colour, ionic radii and lanthanide contraction,
SUNDAY - 12.02.2023		
3	February (13-17)	occurrence, separation of lanthanides, Lanthanide compounds.
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	General characteristics of actinides, chemistry of separa
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	,Pu and Am from uranium, Transuranic elements,
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	comparison of properties of Lanthanides and actinides with transition elements
SUNDAY - 19.03.2023		

8	March (20-25)	Theory of Qualitative and Quantitative Analysis Chemistry of analysis of various groups of basic and acidic radicals
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	chemistry of identification of acid radicals in typical combination
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	chemistry of interference of acid radicals including their removal in the analysis of basic radicals(i)
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	chemistry of interference of acid radicals including their removal in the analysis of basic radicals(ii)
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	chemistry of interference of acid radicals including their removal in the analysis of basic radicals(iii)
SUNDAY - 23.04.2023		
Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	chemistry of interference of acid radicals including their removal in the analysis of basic radicals (iv)
SUNDAY - 30.04.2023		
13	May (1-6)	common ion effect, solubility product,
SUNDAY - 07.05.2023		
14	May (8-13)	theory of precipitation, co-precipitation, post precipitation, purification of precipitates
SUNDAY - 14.05.2023		
14	May (15-16)	Revision, Class test
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

Name of the Paper:- Sequence and Series

Class: B.Sc. IIInd

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

WEEK	DATE	TOPICS
1	February (1-4)	Sets
		Bounded and Unbounded sets
		Least upper bound and Greatest lower bound
		Theorems
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Theorems
		Problem Discussion
		Neighbourhood of a point
		Theorems
		Problems
		Test
SUNDAY - 12.02.2023		
3	February (13-17)	Examples
		Interior Point of a set
		Open set
		Theorems
		Closed set
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Examples
		Limit point
		Closures
		Theorems
		Problems
		Bolzano Weierstrass Theorem
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Theorems
		Examples
		Compact set
		Cover and open cover
		Theorems
		Examples
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Sequence
		Convergent sequence and Divergent sequence
		Oscillatory sequence
		Examples
		Problems
		Test
SUNDAY - 19.03.2023		

8	March (20-25)	Basic theorems of limits and Squeeze Principle
		Cauchy first theorem
		Cauchy second theorem
		Examples
		Monotonic Sequence
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Nested sequence
		Limit point of a sequence
		Cauchy sequence
		Examples
		Subsequence
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Problem Discussion
		Infinite series
		Examples
		Cauchy General Principle of Convergence
		Geometric series
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Series of positive terms
		Comparison test, p-series test
		Examples
		Problems
		D'Alemberts ratio test and examples
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Cauchy root test and examples
		Rabbes test and examples
		Logarithmic test and examples
		De Morgans test and Gauss test
		Cauchy integral test and cauchy condensation test
SUNDAY - 23.04.2023		
Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Alternating series, Leibnitzs test
		Absolute and conditional convergence
		Arbitrary series, Abels Lemma, Abels test
		Examples
		Dirichlets test and examples
		Insertion and removal of parenthesis
SUNDAY - 30.04.2023		
13	May (1-6)	Examples
		Riemann Arrangement Theorem
		Multiplication of series
		Cauchy theorem
		Mertins theorem and examples
		Infinite Product
SUNDAY - 07.05.2023		
14	May (8-13)	Sequence of partial sum
		General Principle of Convergence
		Theorems and examples
		More theorems on infinite product
		Examples and problems
		Test
SUNDAY - 14.05.2023		
14	May (15-16)	Revision
		Revision
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

Name of the Paper:- Special Functions & Integral Transforms

Class: Bsc-II

Name of the Teachers (Section Wise) : Manish Kumar (BSc-II)

WEEK	DATE	TOPICS
1	February (1-4)	Laplace transformation
		basic defination and result
		exisistence theorem for laplace transformation
		linearity of linear transformation
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Shifting theorem
		laplace transformation of derivative
		laplace transformation of integrals
		Examples
		Examples
SUNDAY - 12.02.2023		
3	February (13-17)	Examples
		Examples
		Query of the examples based on above topic
		Examples
		Examples
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Inverse laplace transformation
		basic defination and result
		Examples
		Examples
		Convolution theorem
		Examples
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Inverse laplace transformation of derivatives
		Inverse laplace transformation of integrals
		Solution of ordinary differential equation using laplace
		Examples
		Examples
		Revision of chapter
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Fourier transformation
		basic defination and result
		Examples
		Linearity properties
		Shifting theorem
		Examples
SUNDAY - 19.03.2023		

8	March (20-25)	Modulation theorem
		Convolution theorem
		Examples
		Fourier transform of derivatives
		Relation between fourier and laplace transform
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Examples
		Examples
		Parseval identity for fourier transform
		solution of differential equations using Fourier transform
		Examples
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Examples
		Examples
		Revision of chapter
		Series solution od differential equation
		shifting of summition index
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Analytic function
		Regular and irregular singular point
		Examples
		Examples
		Power series method
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Power series method
		Examples
		Examples
		Bessel function and their properties
		Convergence
SUNDAY - 23.04.2023		
Holiday Id-Ui-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Recurrence relation
		Examples
		Examples
		Generating function
		Orthogonality of bessel function
		Examples
SUNDAY - 30.04.2023		
13	May (1-6)	Doubts
		Class test
		Legendre and hermite differential equation
		solution of legendre hermite differential equation
		properties of both function
		Recurrence relation
SUNDAY - 07.05.2023		
14	May (8-13)	examples
		Generating function
		Orthogonality of legendre and hermite polynomials
		Roderigue formula
		laplace integral representationof legendre polynomials
		examples
SUNDAY - 14.05.2023		
14	May (15-16)	Revision of chapter
		Class test
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

Name of the Paper:-Statistical Physics

Class:B.Sc-II(Physics)

Name of the teacher(Section wise):Ms Sonia

WEEK	DATE	TOPICS
1	February (1-4)	Microscopic and Macroscopic systems, events-mutually exclusive, dependent and independent. Probability, statistical probability
		A- priori Probability and relation between them, probability theorems, some probability considerations, combinations
		possessing maximum probability
		combination possessing minimum probability, Tossing of 2,3 and any number of Coins, Permutations and combinations,
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	distributions of distinguishable and indistinguishable particles in two boxes of equal size ,Micro and Macro states, Thermodynamical probability
		Constraints and Accessible states, Statistical fluctuations, general distribution of distinguishable particles in compartments
		of different sizes,
		Condition of equilibrium between two systems in thermal contact-- β parameter
SUNDAY - 12.02.2023		
3	February (13-17)	Entropy and Probability (Boltzman's relation)
		Numerical Problems
		Postulates of statistical physics, Phase space
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Division of Phase space into cells, three kinds of statistics, basic approach in three statistics.
		M. B. statistics applied to an ideal gas in equilibrium- energy distribution law
		M. B. statistics applied to an ideal gas in equilibrium- energy distribution law
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	M. B. statistics applied to an ideal gas in equilibrium- energy distribution law
		including evaluation of σ and β) Speed distribution law and velocity distribution law
		Expression for average speed, r.m.s. speed, average velocity, r. m. s. velocity
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	most probable energy & mean energy for Maxwellian distribution.
		Need for Quantum Statistics: Bose-Einstein energy distribution law
		Application of B.E. statistics to Planck's radiation law
SUNDAY - 19.03.2023		

8	March (20-25)	B.E. gas, Degeneracy and B.E. Condensation,
		Fermi Dirac energy distribution law,
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Fermi Dirac gas and Degeneracy
		Fermi energy and fermi temperture
		Fermi energy and fermi temperture
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Fermi Dirac energy distriubtion law for electron gas in metal ,zero point energy,Zero point pressure
		Average speed of electron gas, Distribution as a limiting case of B.E and F.D. distributions,
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	specific heat anomaly of metals and its solution Comparison of three statistics..
		Comparison of three statistics.
		conditional test
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Numerical Problems
		Theory of Specific Heat of Solids Dulong and Petit law
		Derivation of Dulong and Petit law from classical physics
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Specific heat at low temperature
		Einstein theory of specific heat
		Einstein theory of specific heat
SUNDAY - 30.04.2023		
13	May (1-6)	Criticism of Einstein theory ,Debye model of specific heat of solids
		success and shortcomings of Debye theory,
		comparison of Einstein and Debye theories.
SUNDAY - 07.05.2023		
14	May (8-13)	Numerical problems
		Revision
		Revision
SUNDAY - 14.05.2023		
14	May (15-16)	Revision
		Revision
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (IV - Semester)

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

Name of the Teachers (Section Wise) : Sonia Verma

WEEK	DATE	TOPICS
1	February (1-4)	धिक् दारिद्र्यं पाठ का परिचय
		धिक् दारिद्र्यं पाठ श्लोक 1-5
		धिक् दारिद्र्यं पाठ श्लोक 6-10
		धिक् दारिद्र्यं पाठ श्लोक 11-15
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	धिक् दारिद्र्यं पाठ श्लोक 16-20
		दण्डः शास्ति प्रजाः सर्वाः पाठ का परिचय
		दण्डः शास्ति प्रजाः सर्वाः पाठ 1-5 श्लोक
		दण्डः शास्ति प्रजाः सर्वाः पाठ 6-10 श्लोक
		दण्डः शास्ति प्रजाः सर्वाः पाठ 11-15 श्लोक
SUNDAY - 12.02.2023		
3	February (13-17)	दण्डः शास्ति प्रजाः सर्वाः पाठ 20-24 श्लोक
		स्थितप्रज्ञस्य का भाषा पाठ का परिचय
		स्थितप्रज्ञस्य का भाषा पाठ 1-5 श्लोक
		स्थितप्रज्ञस्य का भाषा पाठ 6-10 श्लोक
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	स्थितप्रज्ञस्य का भाषा पाठ 16-18 श्लोक
		नितिसूक्तयः पाठ का परिचय
		नितिसूक्तयः पाठ के श्लोक 1-5
		नितिसूक्तयः पाठ के श्लोक 6-10
		नितिसूक्तयः पाठ के श्लोक 11-15
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	मैत्री पुन्स्त्वीदशी पाठ का परिचय
		मैत्री पुन्स्त्वीदशी पाठ के श्लोक 1-5
		मैत्री पुन्स्त्वीदशी पाठ के श्लोक 6-9
		नाऽशिष्योपदिश्यते पाठ का परिचय
		नाऽशिष्योपदिश्यते पाठ का अनुवाद
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	दुर्जनसंगो भयावहः पाठ का सार
		दुर्जनसंगो भयावहः पाठ का अनुवाद
		पराधिकारचर्चा परिवर्जयेत् पाठ का परिचय
		पराधिकारचर्चा परिवर्जयेत् पाठ का अनुवाद
		पराधिकारचर्चा परिवर्जयेत् पाठ का अनुवाद
Revision		
SUNDAY - 19.03.2023		

8	March (20-25)	Conditational Test
		Assignment 1&2
		सुन्दोपसुन्दकथा का परिचय
		सुन्दोपसुन्दकथा का अनुवाद
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	कुञ्जरःप्रलयं गतः पाठ का परिचय
		कुञ्जरःप्रलयं गतः पाठ का अनुवाद
		कुञ्जरःप्रलयं गतः पाठ का अनुवाद
		कुञ्जरःप्रलयं गतः पाठ का अनुवाद धातुरूप (भू,अस्,कृ)
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	धातुरूप (गम्,पठ्,दृश्)
		धातुरूप (स्था,स्पृश्)
		revision
		अच् सन्धि (दीर्घ सन्धि) अच् सन्धि (पूर्वरूप सन्धि)
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Revision
		Revision
		Revision
		Revision
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Revision
		Revision
		Revision
		Revision
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Revision
		Revision
		Revision
		Revision
SUNDAY - 30.04.2023		
13	May (1-6)	Revision
		Revision
		Revision
		Revision
SUNDAY - 07.05.2023		
14	May (8-13)	Revision
		Revision
		Revision
		Revision
SUNDAY - 14.05.2023		
14	May (15-16)	Revision
		Revision
Examination 17.05.2023 Onwards.		