LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

B.Sc. 6th Semester

Class: B.Sc. 3rd Year

Name of the Paper:- Microbial Biotechnology

WEEK	DATE	TOPICS			
1	January (1-6)	Microbial Biotechnology: Historical landmarks, General concept. Microbial Biotechnology: Historical landmarks, General concept. Enrichment culture. Strain improvement- bacterial genetics			
SUNDAY - 07.01.2024					
2	January (8-13) January (15-16) January	Enrichment culture. Strain improvement- bacterial genetics Enrichment culture. Strain improvement- bacterial genetics mutant selection,Recombination. SUNDAY - 14.01.2024 Recombinant DNA technology. Strain preservation and maintenance			
	(18-20)	Nutrition and cultivation of microorganisms: Basic nutrition and metabolism Natural and Synthetic media			
Natural and Synthetic media					
		SUNDAY - 21.01.2024			
4	January (22-25) January (27)	Recombinant DNA technology. Strain preservation and maintenance Nutrition and cultivation of microorganisms: Basic nutrition and metabolism			
		Natural and Synthetic media			
		HOLIDAY - 26.01.2024 - REPUBLIC DAY			
		SUNDAY - 28.01.2024			

Name of the Teachers (Section Wise): Anjushree

SUNDAY - 04.02.2024

Sterilization techniques

Microbial growth kinetics

Fermentation types

January (29-31)

February

(1-3)

5

		Quantification of growth, Thermodynamics of growth, effect of different factors on growth		
c				
	February			
D	(5-10)			
		Physico-chemical standards used in bioreactors (agitation, aeration, pH,		
		temp., dissolved oxygen etc.).		
		SUNDAY - 11.02.2024		
	F . b	Process Development		
	February			
7	(12-13) February			
	(15-17)	Downstream Processing		
		Bioreactor applications		
	HOLIDAY 14.0	2.2024 - BASANT PANCHIMI/SIR CHHOTU RAM JAYANTI		
SUNDAY - 18.02.2024				
		Microbial Products: a brief discussion about production of certain		
		industrial products: Alcohol		
8	February			
•	(19-24)			
		Fermentation types		
		Microbial Products: a brief discussion about production of certain industrial products		
		SUNDAY - 25.02.2024		
		Microbial Products: a brief discussion about production of certain		
9	_	industrial products		
	February			
	(26-29) March			
	(1-2)	Microbial Products: Organic acids(citric acid). Antibiotics (Penicillin)		
	(/	Amino paida (Clutomia paid) Vitaming (Vitamin P.) anyumas (Protocosa)		
		Annuo acids (Giutanne acid), vitanniis (vitannii B_{12}), enzymes (Proteases)		
		SUNDAY - 03.03.2024		
10	March	Microbial foods: Single Cell Proteins		
	(4_7)			
	(+ /) March			
	(9)	A brief account of Steroid Biotransformation		
		Sewage waste treatment technique and plants		
		HOLIDAY - 08.03.2024 - MAHA SHIVRATRI		
		SUNDAY - 10.03.2024		
		Assignment		
	March			
11	(11-16)			
	,	Biodegradation of Xenobiotic compounds		
		Microbial Polysaccharides and Polyesters: Production of Xanthan gum		
		SUNDAY - 17.03.2024		

12 March					
(18-22)					
Bioconversion: Biomining and Bioleaching					
Microbial technology in agriculture: Bioinsecticides					
HOLI VACATION - 23.03.2024 - 31.03.2024					
(SHAHEEDI DIWAS - 23.03.2024)	nothoda				
Biocontrol agents for disease control, advantages over chemical f	netnods				
April					
13 (1-6)					
Biofertilizers					
Use of GEM in Agriculture					
SUNDAY - 07 04 2024					
Use of GEM in Industry					
(8-10)					
(12-13) Use of GEM in Industry					
Use of GEM in Industry					
HOLIDAY - 11.04.2024 - ID-UL-FITR					
SUNDAY - 14.04.2024					
April Applications of Microbial Biotechnology					
(15-16)					
15 April					
(18-20) Applications of Microbial Biotechnology					
Applications of Microbial Biotechnology					
HOLIDAY - 17.04.2024 - RAM NAVMI					
SUNDAT - 21.04.2024					
Applications of Microbial Biotechnology					
April					
16 (22-27)					
Applications of Microhial Distochnology					
SUNDAY - 28.04.2024					
Revision					
April					
17 (29-30)					
University Examinations w.e.f. 01.05.2024					

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

B.Sc. 6th Semester

Name of the Paper:- Biochemistry and Plant Biotechnology Class: B.Sc. 3rd Year Name of the Teachers (Section Wise) : Rajni

WEEK	DATE	TOPICS			
		Basics of Enzymology: Discovery and Nomenclature, Characters of			
		Enzyme			
		Basics of Enzymology: Discovery and Nomenclature, Characters of			
1	January	Enzyme			
T	(1-6)	Concept of Holoenzyme, Apoenzyme			
		SUNDAY - 07.01.2024			
		Concept of Holoenzyme, Apoenzyme			
		Coenzyme and Cofactors			
2	January	Coenzyme and Cofactors			
2	(8-13)				
		SUNDAY - 14.01.2024			
		Regulation of Enzyme Activity			
	January	Mechanism of Action			
2	(15-16)				
3	January				
	(18-20)				
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI					
SUNDAY - 21.01.2024					
4	lanuary	Growth and Development: Definition, phases			
	(22_25)	Plant Hormones			
	(22-25)	Plant Hormones			
	January				
	(27)				
HOLIDAY - 26.01.2024 - REPUBLIC DAY					
		SUNDAY - 28.01.2024			
		Plant Hormones			
	January	Plant Hormones			
5	(29-31)	Plant Hormones			
5	February				
	(1-3)				
SUNDAY - 04.02.2024					

		Photo-morphogenesis
6		Photo-morphogenesis Phytochrome and their Discovery
	(5-10)	I hytochronie and then Discovery
	(5-10)	
		SUNDAY - 11.02.2024
		Physiological role and -Mechanism of Action
	February	Lipid Metabolism: Structure and Functions of Lipids, Fatty Acid
7	(12-13)	Biosynthesis Lipid Metabolism: Structure and Functions of Lipids, Eatty Acid
,	February	Biosynthesis
	(15-17)	
	HOLIDAY 14.02	.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI
		SUNDAY - 18.02.2024
		Lipid Metabolism: Structure and Functions of Lipids, Fatty Acid Biosynthesis
8	February	Nitrogen Metabolism.
Ű	(19-24)	Nitrogen Metabolism.
	T	SUNDAY - 25.02.2024
		Genetic engineering and Biotechnology-Aspects of Plant tissue Culture
9		Genetic engineering and Diotechnology-Aspects of Frank tissue Culture
	February	Genetic engineering and Biotechnology-Aspects of Plant tissue Culture
	(20-29) March	
	(1-2)	Genetic engineering and Biotechnology-Aspects of Plant tissue Culture
		SUNDAY - 03.03.2024
		Genetic engineering and Biotechnology-Aspects of Plant tissue Culture
10	March	Genetic engineering and Biotechnology-Aspects of Plant tissue Culture
	(4-7)	Schele engineering and Diotechnology Aspects of Frank dissue Culture
	March	Genetic engineering and Biotechnology-Aspects of Plant tissue Culture
	(9)	
	Н	ULIDAT - U8.U3.2U24 - IVIAHA SHIVKATKI SUNDAY 10.02.2024
		Biology of Agrohacterium
		Biology of Agrobacterium
	March	Biology of Agrobacterium
11	(11-16)	
l	l	

		Vectors for Gene Delivery			
12		Vectors for Gene Delivery			
	March	Vectors for Gene Delivery			
12	(18-22)				
	н	OLI VACATION - 23.03.2024 - 31.03.2024			
	(SHAHEEDI DIWAS - 23.03.2024)				
		Marker Genes			
	April	Marker Genes			
12	(1.6)	Marker Genes			
15	(1-0)				
		SUNDAY - 07.04.2024			
14	April	Conomia and a DNA Library			
	(8-10)	Genomic and c DNA Library			
	April				
	(12-13)				
		HOLIDAY - 11.04.2024 - ID-UL-FITR			
		SUNDAY - 14.04.2024			
	April	Genomic and c-DNA Library			
	(15-16)	Genomic and c-DNA Library			
15	April	Genomic and c-DNA Library			
	(18-20)				
	(/				
HOLIDAY - 17.04.2024 - RAM NAVMI					
		SUNDAY - 21.04.2024			
	April	Assignment			
		Revision			
16	(22-27)	Revision			
		SUNDAY - 28 04 2024			
		Revision			
	April (29-30)	test			
17	(29-30)				
17	(29-30)				

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

B.Sc. 6th Sem.

Weekly Lesson Plan (Even Semester)

UG (VI - Semester)

Name of the Paper:- Organic Chemistry Class:

Name of the Teachers (Section Wise) :

WEEK	DATE	TOPICS		
1	January (4-6)	Addition or chain- growth polymerization. Free radical vinyl polymerization,		
		SUNDAY - 07.01.2024		
2	January (8-13)	ionic vinyl polymerization, Ziegler- Natta polymerization and vinyl polymers.		
		SUNDAY - 14.01.2024		
3	January (15-16) January (18-20)	Condensation or step growth polymerization. Polyesters, polyamides, phenol formaldehyde resins.		
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI				
SUNDAY - 21.01.2024				
4	January (22-25) January (27)	Natural and synthetic rubbers.		
		HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024				
5	January (29-31) February (1-3)	Classification, of amino acids. Acid- base behavior,		
SUNDAY - 04.02.2024				

6 February (5-10) isoelectric point and electrophoresis. Preparation of a- amino acids. 7 February (12-13) February (15-17) Structure and nomenclature of peptides and proteins. Classification of proteins. 7 February (15-17) Structure and nomenclature of peptides and proteins. Classification of proteins. 8 February (19-24) Peptide structure determination, end group analysis, selective hydrolysis of peptides. Classical peptide synthesis, solid- phase peptide synthesis. 9 February (19-24) Peptide structures of peptides and proteins: Primary & Secondary structure. (1-2) 9 February (26-29) March (1-2) Structures of peptides and proteins: Primary & Secondary structure. 10 March (4-7) March Acidity of a- hydrogens, alkylation of diethyl malonate and ethyl acetoacetate.				
SUNDAY - 11.02.2024 7 February (12-13) February (15-17) Structure and nomenclature of peptides and proteins. Classification of proteins. HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI SUNDAY - 18.02.2024 8 February (19-24) Peptide structure determination, end group analysis, selective hydrolysis of peptides. Classical peptide synthesis, solid- phase peptide synthesis. 9 February (26-29) March (1-2) Structures of peptides and proteins: Primary & Secondary structure. 10 March (4-7) March Acidity of a- hydrogens, alkylation of diethyl malonate and ethyl acetoacetate.				
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8 February (19-24) Peptide structure determination, end group analysis, selective hydrolysis of peptides. Classical peptide synthesis, solid– phase peptide synthesis. 9 February (26-29) March (1-2) SUNDAY - 25.02.2024 9 February (26-29) March (1-2) Structures of peptides and proteins: Primary & Secondary structure. 9 March (4-7) March Acidity of a- hydrogens, alkylation of diethyl malonate and ethyl acetoacetate.				
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SUNDAY - 25.02.2024 9 February (26-29) March (1-2) Structures of peptides and proteins: Primary & Secondary structure. 9 Structures of peptides and proteins: Primary & Secondary structure. 9 March (4-7) March Acidity of a- hydrogens, alkylation of diethyl malonate and ethyl acetoacetate.				
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SUNDAY - 03.03.2024 March (4-7) March Acidity of a- hydrogens, alkylation of diethyl malonate and ethyl acetoacetate.				
March (4-7) MarchAcidity of a- hydrogens, alkylation of diethyl malonate and ethyl acetoacetate.				
March March 10 (4-7) March Acidity of a- hydrogens, alkylation of diethyl malonate and ethyl acetoacetate.				
(9)				
HOLIDAY - 08.03.2024 - MAHA SHIVRATRI SUNDAY - 10.03.2024				
SUNDA1 - 10.03.2024				
11 March (11-16) Synthesis of ethyl acetoacetate: the Claisen condensation. Keto- enol tautomerism of eth acetoacetate.				
SUNDAY - 17 03 2024				
SUNDA1 - 17.03.2024				
12 March (18-22) Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine.				
HOLI VACATION - 23 03 2024 - 31 03 2024				
(SHAHEEDI DIWAS - 23.03.2024)				
13April (1-6)Methods of synthesis and chemical reactions with particular emphasis on the mechanism electrophilic substitution.				

SUNDAY - 07.04.2024				
14	April (8-10) April (12-13)	Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison of basicity of pyridine, piperidine and pyrrole		
		HOLIDAY - 11.04.2024 - ID-UL-FITR		
SUNDAY - 14.04.2024				
15	April (15-16) April (18-20)	Introduction to condensed five and six- membered heterocycles. Prepration and reactions of indole,		
		HOLIDAY - 17.04.2024 - RAM NAVMI		
		SUNDAY - 21.04.2024		
16	April (22-27)	quinoline and isoquinoline with special reference to Fisher indole synthesis, Skraup synthesis and Bischler-Napieralski synthesis.		
SUNDAY - 28.04.2024				
17	April (29-30)	Mechanism of electrophilic substitution reactions of, quinoline and isoquinoline.		
		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 -VI Semester

Name of the Paper:- Physical Chemistry Class:

B.Sc. 6th Sem.

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

WEEK	DATE	TOPICS		
1	January (4-6)	Ideal and non-ideal solutions, methods of expressing concentrations of solutions,		
		SUNDAY - 07.01.2024		
2	January (8-13)	Dilute solutions, Raoult's law. Colligative properties: (i) relative lowering of vapour pressure		
SUNDAY - 14.01.2024				
3	January (15-16) January (18-20)	(ii) Elevation in boiling point (iii) depression in freezing point (iv) osmotic pressure.		
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI				
		SUNDAY - 21.01.2024		
4	January (22-25) January (27)	Thermodynamic derivation of relation between amount of solute and elevation in boiling point and depression in freezing point		
	НО	LIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024				
5	January (29-31) February (1-3)	Applications in calculating molar masses of normal, dissociated and associated solutes in solution.		
		SUNDAY - 04.02.2024		

6	February (5-10)	Statement and meaning of the terms – phase, component and degree of freedom,		
		SUNDAY - 11.02.2024		
7	February (12-13) February (15-17)	thermodynamic derivation of Gibbs phase rule, phase equilibria of one component system –Example – water system.		
HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI				
SUNDAY - 18.02.2024				
8	February (19-24)	Phase equilibria of two component systems solid-liquid equilibria, simple eutectic Example Pb-Ag system, desilverisation of lead.		
		SUNDAY - 25.02.2024		
9	February (26-29) March (1-2)	Need for statistical thermodynamics, thermodynamic probability,		
SUNDAY - 03.03.2024				
10	March (4-7) March (9)	Boltzmann distribution statistics, Born oppenheimer approximation,		
HOLIDAY - 08.03.2024 - MAHA SHIVRATRI				
		SUNDAY - 10.03.2024		
11	March (11-16)	partition function and its physical significance.		
		SUNDAY - 17.03.2024		
12	March (18-22)	Factorization of partition function.		
HOLI VACATION - 23.03.2024 - 31.03.2024 (SHAHEEDI DIWAS - 23.03.2024)				

13	April (1-6)	Interaction of radiation with matter, difference between thermal and photochemical processes.		
		SUNDAY - 07.04.2024		
14	April (8-10) April (12-13)	Laws of photochemistry: Grotthus-Drapper law, Stark- Einstein law (law of photochemical equivalence),		
HOLIDAY - 11.04.2024 - ID-UL-FITR				
SUNDAY - 14.04.2024				
15	April (15-16) April (18-20)	Jablonski diagram depiciting various processes occurring in the excited state,		
HOLIDAY - 17.04.2024 - RAM NAVMI				
SUNDAY - 21.04.2024				
16	April (22-27)	qualitative description of fluorescence, phosphorescence, non- radiative processes (internal conversion, intersystem crossing), quantum yield, photosensitized reactions-energy transfer processes (simple examples).		
		SUNDAY - 28.04.2024		
17	April (29-30)	Revision and Tests		
University Examinations w.e.f. 01.05.2024				

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester) : VI

Name of the Paper:- Computer Networks Class: BSC (CS)

Name of the Teachers (Section Wise) : Deepty Juneja

WEEK	DATE	TOPICS	
1	January		
1	(1-6)	Itroduction of Computer Networks, Uses of Computer Networks;	
		Types of Computer Networks and their Topologies;	
		SUNDAY - 07.01.2024	
2	January	Network Hardware Components: Connectors, Transceivers,	
2	(8-13)	Repeaters, Hubs, Network Interface Cards and PC Cards	
		Bridges, Switches, Routers, Gateways	
		SUNDAY - 14.01.2024	
	-		
	January		
3	(15-16)		
	January	Network Software: Network Design issues and Protocols; Connection-Oriented and	
	(18-20)	OSI Reference Model:	
	HOLIDAT	SUNDAY - 21 01 2024	
		30NDA1 - 21.01.2024	
	January		
4	(22-25)	TCP/IP Model:	
-	January	Analog and Digital data and signals	
	(27)		
		HOLIDAY - 26.01.2024 - REPUBLIC DAY	
		SUNDAY - 28.01.2024	
	January		
-	(29-31)	Bandwidth and Data Rate, Capacity, Baud Rate	
5	February	Guided and Wireless Transmission Media; Communication Satellites;	
	(1-3)	Switching and Multiplexing	
		SUNDAY - 04.02.2024	

6	Fabruary	
	February	Modems and modulation techniques
	(5-10)	Sliding Window Protocols: One-bit
		SUNDAY - 11.02.2024
	Fobruary	
	(12-13)	
7	(12-13) February	Go Back N and Selective Repeat
	(15-17)	Media Access Control: ALOHA, Slotted ALOHA
	(10 17)	
	HOLIDAY 14.0	02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI
		SUNDAY - 18.02.2024
	February	CSMA. Collision free protocols
8	(19-24)	Introduction to LAN technologies: Ethernet
	()	Switched Ethernet, Fast Ethernet
		·
		SUNDAY - 25.02.2024
	February	Cizabit Ethernet: Teken Ding
9	(26-29)	Introduction to Wireless LANs and Bluetooth:
		Assignment I
	(1-2)	
		SUNDAY - 03.03.2024
	Warch	
10	(4-7) March	Routing Algorithms: Flooding
		Shortest Path Routing, Distance Vector Routing
	(9)	
		HOLIDAY - 08.03.2024 - MAHA SHIVRATRI
		SUNDAY - 10.03.2024
11	March	Link State Routing, Hierarchical Routing
	(11-16)	Croup Discussion
		SUNDAY - 17 03 2024

	March	
12		
		Conditional Test
	(10-22)	Application Laver: Introduction to DNS
	L	HOLI VACATION - 23.03.2024 - 31.03.2024
		(SHAHEEDI DIWAS - 23.03.2024)
	A us util	
12	April (1.6)	Load shedding;
12	(1-0)	E-Mail and WWW services;
		Assignment II
		SUNDAY - 07.04.2024
	A	
	Aprii (8.10)	
14	(8-10) April	Network Security Issues: Security attacks
14	(12-13)	Encryption methods;
	(12 13)	Firewalls
HULIDAY - 11.04.2024 - ID-UL-FITR		
	April	SUNDAY - 14.04.2024
	April (15-16)	SUNDAY - 14.04.2024
15	April (15-16) April	SUNDAY - 14.04.2024 Digital Signatures;
15	April (15-16) April (18-20)	SUNDAY - 14.04.2024 Digital Signatures; Revision
15	April (15-16) April (18-20)	SUNDAY - 14.04.2024 Digital Signatures; Revision
15	April (15-16) April (18-20)	SUNDAY - 14.04.2024 Digital Signatures; Revision HOLIDAY - 17.04.2024 - RAM NAVMI
15	April (15-16) April (18-20)	SUNDAY - 14.04.2024 Digital Signatures; Revision HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Devision
15	April (15-16) April (18-20)	SUNDAY - 14.04.2024 Digital Signatures; Revision HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Revision Revision Revision
15	April (15-16) April (18-20) April	SUNDAY - 14.04.2024 Digital Signatures; Revision HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Revision Revision Revision Revision
15	April (15-16) April (18-20) April (22-27)	SUNDAY - 14.04.2024 Digital Signatures; Revision HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Revision Revision Revision Revision Revision Revision
15	April (15-16) April (18-20) April (22-27)	SUNDAY - 14.04.2024 Digital Signatures; Revision HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Revision
15	April (15-16) April (18-20) April (22-27)	SUNDAY - 14.04.2024 Digital Signatures; Revision HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Revision Revision Revision Revision Revision Revision Revision Revision
15	April (15-16) April (18-20) April (22-27)	SUNDAY - 14.04.2024 Digital Signatures; Revision HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Revision Revision Revision Revision Revision Revision SUNDAY - 28.04.2024
15	April (15-16) April (18-20) April (22-27)	SUNDAY - 14.04.2024 Digital Signatures; Revision HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Revision
15	April (15-16) April (18-20) April (22-27) April (29-30)	SUNDAY - 14.04.2024 Digital Signatures; Revision HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Revision
15	April (15-16) April (18-20) April (22-27) April (29-30)	SUNDAY - 14.04.2024 Digital Signatures; Revision HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Revision
15	April (15-16) April (18-20) April (22-27) April (29-30)	SUNDAY - 14.04.2024 Digital Signatures; Revision HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Revision Revision Revision Revision Revision Revision Revision Revision

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester) : VI

Name of the Paper:- Relational Data Base Management System Class: BSC (CS)

Name of the Teachers (Section Wise) : Deepty Juneja

WEEK	DATE	TOPICS
1		
	January	
1	(1-6)	
		SUNDAY - 07.01.2024
		Codd's Rules for Relational Model, Hierarchical Data Model–
		Introduction, Features, Components
2	January	Database Management System (DBMS), Components of DBMS Environment
2	(8-13)	
		SUNDAY - 14.01.2024
	lanuary	Network Data Model– Introduction, Features, Components,
	(1E 16)	Differences between Hierarchical Data Model and Network Data Model
3	(15-10)	
	January	
	(18-20)	
	HOI	LIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI
		SUNDAY - 21.01.2024
		Comparison of Relational Data Model with Hierarchical Data Model and
	January	
4	(22-25)	Relational Algebra:-Selection and Projection, Set Operation, Join and Division
4	January	
	(27)	
		HOLIDAY - 26.01.2024 - REPUBLIC DAY
		SUNDAY - 28.01.2024
		Relational Calculus: Tuple Relational Calculus
	January	Relational Calculus: Tuple Relational Calculus
E	(29-31)	
5	February	
	(1-3)	
		SUNDAY - 04.02.2024

		Relational Calculus: Tuple Relational Calculus
6		Domain Relational Calculus
	February	
	(5-10)	
	(<i>y</i>	
		SUNDAY - 11.02.2024
		Normalization Purpose, Data Redundancy, Update Anomalies, Decomposition
	February	Partial/Fully Functional Dependencies, Transitive Functional Dependencies,
7	(12-13)	Characteristics of Functional Dependencies,
,	February	
	(15-17)	
	HOLIDA	Y 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI
	Γ	SUNDAY - 18.02.2024
		Normal Forms (1NF, 2NF)
		Normal Forms (3NF , BCNF)
8	February	
	(19-24)	
		SUNDAY - 25 02 2024
		SOL: Data Definition and data types
	February	Create Table Insert Data Viewing Data
-	(26-29)	
9	March	
	(1-2)	
	Γ	SUNDAY - 03.03.2024
	N A a a a b	Update, View, Delete, Join table
	March	Filtering Table Data, Sorting data, Creating Table from a Table, Destroy table
10	(4-7)	
	March (2)	
	(9)	
		HOLIDAY - 08.03.2024 - MAHA SHIVRATRI
		SUNDAY - 10.03.2024
		Concatenating data from Table,
		Specifying Constraints in SQL; Primary Key, Foreign Key,
11	March	
11	(11-16)	
		SUNDAY - 17.03.2024

		Unique Key, Check Constraint, Using Functions	
12		The Generic PL/SQL Block, PL/SQL Execution Environment	
	March		
12	(18-22)		
		HOLI VACATION - 23.03.2024 - 31.03.2024	
	1	(SHAHEEDI DIWAS - 23.03.2024)	
		Assignment I	
	April	PL/SQL-Introduction, Advantages of PL/SQL	
13	(1-6)		
	T	SUNDAY - 07.04.2024	
	April	PL/SQL Character Set and Data Types	
	(8-10)	Declaration and Assignment of Variables	
14	April		
	(12-13)		
		HOLIDAY - 11.04.2024 - ID-UL-FITR	
		HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024	
	April	HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024 Class Test	
15	April (15-16)	HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024 Class Test Control Structure in PL/SQL: Conditional Control,	
15	April (15-16) April (18-20)	HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024 Class Test Control Structure in PL/SQL: Conditional Control,	
15	April (15-16) April (18-20)	HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024 Class Test Control Structure in PL/SQL: Conditional Control,	
15	April (15-16) April (18-20)	HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024 Class Test Control Structure in PL/SQL: Conditional Control, HOLIDAY - 17.04.2024 - RAM NAVMI	
15	April (15-16) April (18-20)	HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024 Class Test Control Structure in PL/SQL: Conditional Control, HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024	
15	April (15-16) April (18-20)	HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024 Class Test Control Structure in PL/SQL: Conditional Control, HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Iterative Control	
15	April (15-16) April (18-20)	HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024 Class Test Control Structure in PL/SQL: Conditional Control, HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Iterative Control Conditional Test	
15	April (15-16) April (18-20) April (22-27)	HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024 Class Test Control Structure in PL/SQL: Conditional Control, HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Iterative Control Conditional Test	
15	April (15-16) April (18-20) April (22-27)	HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024 Class Test Control Structure in PL/SQL: Conditional Control, HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Iterative Control Conditional Test	
15	April (15-16) April (18-20) April (22-27)	HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024 Class Test Control Structure in PL/SQL: Conditional Control, HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Iterative Control Conditional Test	
15	April (15-16) April (18-20) April (22-27)	HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024 Class Test Control Structure in PL/SQL: Conditional Control, HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Iterative Control Conditional Test SUNDAY - 28.04.2024	
15	April (15-16) April (18-20) April (22-27)	HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024 Class Test Control Structure in PL/SQL: Conditional Control, HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Iterative Control Conditional Test SUNDAY - 28.04.2024 Assignment II	
15	April (15-16) April (18-20) April (22-27)	HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024 Class Test Control Structure in PL/SQL: Conditional Control, HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Iterative Control Conditional Test SUNDAY - 28.04.2024 Assignment II Sequential Control	
15	April (15-16) April (18-20) April (22-27) April (29-30)	HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024 Class Test Control Structure in PL/SQL: Conditional Control, HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Iterative Control Conditional Test SUNDAY - 28.04.2024 Assignment II Sequential Control	
15	April (15-16) April (18-20) April (22-27) April (29-30)	HOLIDAY - 11.04.2024 - ID-UL-FITR SUNDAY - 14.04.2024 Class Test Control Structure in PL/SQL: Conditional Control, HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 17.04.2024 - RAM NAVMI Conditional Test Iterative Control Conditional Test SUNDAY - 28.04.2024 Assignment II Sequential Control	

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

B.Sc. 6th Semester

Name of the Paper:- Economic Botany

Class: B.Sc. 3rd Year

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

WEEK	DATE	TOPICS	
1	January		
-	(1-6)	Origin of Cultivated Plants	
		Origin of Cultivated Plants	
		Centers of Origin of Cultivated Plants	
		SUNDAY - 07.01.2024	
2	January		
<u>د</u>	(8-13)	Centers of Origin of Cultivated Plants	
		Centers of Origin of Cultivated Plants	
		Food Plants-I: Wheat	
		SUNDAY - 14.01.2024	
	January		
2	(15-16)		
3	January	Food Plants-I: Wheat	
	(18-20)	Food Plants-II: Rice	
		Food Plants-II: Rice	
	HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
		SUNDAY - 21.01.2024	
	Januarv		
	(22-25)		
4	January		
	(27)	Food Plants-III: Maize	
	(27)	Food Plants-III: Maize	
	ŀ	IOLIDAY - 26.01.2024 - REPUBLIC DAY	
SUNDAY - 28.01.2024			
	January		
5	(29-31)		
	February	Pulses-I: Gram	
	(1-3)	Pulses-I: Gram	
		Pulses-III: Peas	
		SUNDAY - 04.02.2024	

6	February (5-10)	Assignments Vegetables-I: Potato Vegetables-II: Tomato SUNDAY - 11.02.2024
7	February (12-13) February (15-17)	Vegetables-III: Onion Vegetables-III: Onion Fibre Plants-I: Cotton
	HULIDAY 14.02.2	
8	February (19-24)	Fibre Plants-I: Cotton Fibre Plants-II: Jute Fibre Plants-II: Jute
		SUNDAY - 25.02.2024
9	February (26-29) March (1-2)	Fibre Plants-III: Flax Fibre Plants-III: Flax Revision, Discussion and Doubts
		SUNDAY - 03.03.2024
10	March (4-7) March (9)	Oil Plants-I: Groundnut Oil Plants-I: Groundnut Oil Plants-II: Mustard
	НО	LIDAY - 08.03.2024 - MAHA SHIVRATRI
		SUNDAY - 10.03.2024
11	March (11-16)	Oil Plants-II: Mustard Oil Plants-III: Coconut Spices-Morphology, Cultivation and Uses of Coriander
		SUNDAY - 17.03.2024

12		
	March	
12	(18-22)	Spices-Morphology, Cultivation and Uses of Ferula
		Spices-Morphology, Cultivation and Uses of Ferula
		General Account of Timber Plants
	HC	DLI VACATION - 23.03.2024 - 31.03.2024
		(SHAHEEDI DIWAS - 23.03.2024)
	April	
13	(1-6)	
-	x - y	General Account of Timber Plants
		Spices-Morphology, Cultivation and Uses of Ginger
		Spices- Morphology, Cultivation and Uses of Cloves
	[SUNDAT - 07.04.2024
	April	
	(8-10)	
14	April	Spices- Morphology Cultivation and Uses of Cloves
	(12-13)	Medicinal Plants- <i>Cinchona</i>
		Medicinal Plants- Cinchona
		HOLIDAY - 11.04.2024 - ID-UL-FITR
		SUNDAY - 14.04.2024
	April	
	(15-16)	
15	April	Medicinal Plants- Rauvolfia
	(18-20)	Medicinal Plants- Atropa Medicinal Plants- Onium
		HOUDAX 17 04 2024 BAM NAVAN
	[JUNDAT - 21.04.2024
	April	
16	(22-27)	Medicinal Plants- Cannabis. Neem
		Botanical Description, Processing of Tea
		Botanical Description, Processing of Coffee
		SUNDAY - 28.04.2024
	April	
17	(29-30)	
	,	Botanical Description, Processing of Rubber (<i>Hevea, Sugarcane</i>)
		General Account of Energy Plantations, Biofuels
	Ur	niversity Examinations w.e.t. 01.05.2024

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

B.Sc.: 6th Semester

Name of the Paper: Aquaculture and Pest management-II Class: B.Sc. 3rd Year

Name of the Teachers (Section Wise) : NEELAM THAREJA

WEEK	DATE	TOPICS
1		
	January	
T	(1-6)	Introduction to World Fisheries and Indian Fisheries
		Fresh Water Fishes of India: River System
		Fresh Water Fishes of India: River System
		SUNDAY - 07.01.2024
2	January	
2	(8-13)	Brackish Water fish Culture
		Captive and Culture Fisheries
		Captive and Culture Fisheries
		SUNDAY - 14.01.2024
	January	
2	(15-16)	
3	January	Cold Water Fisheries
	(18-20)	Fishing Crafts
		Fishing Crafts
	HOLIDAY - 1	7.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI
		SUNDAY - 21.01.2024
	January	
	(22-25)	
4	(22 25)	
	(27)	Fishing Gears
	(27)	Fishing Gears
	Н	OLIDAY - 26.01.2024 - REPUBLIC DAY
		SUNDAY - 28.01.2024
	January	
5	(29-31)	
_	February	Class Test
	(1-3)	Fin Fishes
		Crustaceans
		SUNDAY - 04.02.2024

6		
	February	
	(5-10)	Molluscs and their culture
		Molluscs and their culture
		Class Test
	I	SUNDAY - 11.02.2024
	February	
_	(12-13)	
7	February	Sugercane Pests
	(15-17)	Sugercane Pests
		Sugercane Pests
	HOLIDAY 14.02.2	
		SUNDAY - 18.02.2024
8	February	
	(19-24)	Cotton Pests
		Cotton Pests
		SUNDAY - 25.02.2024
	Fobuson.	
	February	
9	(20-29) March	Class Test
		Class Test
	(1-2)	Class Seminar
		SUNDAT - 03.03.2024
	March	
	(A_7)	
10	(4-7) March	Class Seminar
	(9)	Class Seminar
	(5)	Class Seminar
	НО	ΙΙΔΑΥ - 08 03 2024 - ΜΔΗΔ SHIVRATRI
		SUNDAY - 10.03.2024
	[
	March	
11	(11-16)	Wheat Pests
	(,	Wheat Pests
		wheat Pests

	I	
12		
	March	
	(18-22)	Paddy Pects
	(10-22)	Paddy Pests
		Paddy Pests
	НС	DLI VACATION - 23.03.2024 - 31.03.2024
		(SHAHEEDI DIWAS - 23.03.2024)
	April	
13	(1-6)	Class Test
		Revision
		Revision
		SUNDAY - 07.04.2024
	April	
	(8-10)	
14	April	
	(12-13)	Vegetable Pests
	ι - γ	Vegetable Pests
	l	Vegetable Pests
		HOLIDAY - 11.04.2024 - ID-UL-FITR
	Amril	SUNDAY - 14.04.2024
	Aprii (15.16)	
15	(15-16) April	Class Tost
15	(19.20)	Class Test Revision
	(10-20)	Revision
	L	HOLIDAY - 17.04.2024 - RAM NAVMI
		SUNDAY - 21.04.2024
	ا نه س	
16	Aprii (22.27)	
10	(22-27)	Class Seminar
		Class Seminar
		Class Seminar
		SUNDAY - 28.04.2024
	April	
17	(29-30)	
	,	
	Ur	niversity Examinations w.e.f. 01.05.2024

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

B.Sc.: 6th Semester

Name of the Paper: Aquaculture and Pest management-II Class: B.Sc. 3rd Year

Name of the Teachers (Section Wise) : PAWAN KUMAR

WEEK	DATE	TOPICS	
		Aquaculture-introduction	
		Aquaculture-introduction	
1	January	Aquaculture-introduction	
1	(1-6)		
		SUNDAY - 07.01.2024	
		Seed production	
		Seed production	
2	January	Seed production	
2	(8-13)		
		SUNDAY - 14.01.2024	
		Seed production	
	January	Seed production	
2	(15-16)		
5	January		
	(18-20)		
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI			
SUNDAY - 21.01.2024			
	Januarv	Class Test	
	(22-25)	Hapas and ponds for fish culture	
4	lanuary	Hapas and ponds for fish culture	
	(27)		
	(27)		
HOLIDAY - 26.01.2024 - REPUBLIC DAY			
SUNDAY - 28.01.2024			
5		Hapas and ponds for fish culture	
	January	Hapas and ponds for fish culture	
	(29-31)	Hapas and ponds for fish culture	
Ū.	February		
	(1-3)		
SUNDAY - 04.02.2024			

		Assignment	
	February	Class Test Devicion	
6	(5 10)	Revision	
	(3-10)		
		SUNDAY - 11.02.2024	
	February	Induced breeding	
_	(12-13)	Induced breeding	
7	February	Induced breeding	
	, (15-17)		
	HOLIDAT 14.02.2	SUNDAY - 18.02.2024	
		Induced breeding	
0	February	Induced breeding	
ð	(19-24)		
		SUNDAY - 25.02.2024	
	February	Nutrition	
	(26-29)		
9	March		
	(1-2)		
SUNDAY - 03.03.2024			
	Mayah	Culture Technology	
		Culture Technology	
10	(4-7)		
	iviarch		
	(9)		
	НС	ULIDAY - 08.03.2024 - MAHA SHIVRATRI	
SUNDAY - 10.03.2024			
		Stored Grain Pests	
11		Stored Grain Pests	
	March	Stored Grain Pests	
	(11-16)		
		SUNDAY 17.02.2024	
SUNDAY - 17.03.2024			

12		Class Test		
		Insect Control		
	March	Insect Control		
12	(18-22)			
	НС	OLI VACATION - 23.03.2024 - 31.03.2024 (SHAHEEDI DIWAS - 23.03.2024)		
		Chemical Control		
	A	Chemical Control		
12	April	Chemical Control		
13	(1-6)			
		SUNDAY - 07.04.2024		
	April	Integrated pest management		
	(8-10)	Integrated pest management		
14	April	Rodent pest management		
	(12-13)			
	(,			
		ΗΟΙ ΙΔΑΥ - 11 04 2024 - ΙΔ-Ι ΙΙ -ΕΙΤΒ		
	SUNDAY - 14 04 2024			
	April	Bird pest management		
	(15-16)	Revision		
15	(15 10) Anril	Revision		
	(18-20)			
	(10-20)			
		HOLIDAY - 17.04.2024 - RAM NAVMI		
		SUNDAY - 21.04.2024		
		Class Test		
	April	Class Test		
16	(22-27)	Revision		
	· · ·			
		Class Tost		
	April	Class Test		
17	(29-30)			
University Examinations w.e.f. 01.05.2024				

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:- Linear Algebra

Class: B.SC/B.A(III)

Name of the Teachers (Section Wise) : Dr. ARPANA GARG

WEEK	DATE	TOPICS	
		Vector Spaces	
		Definition	
1	January	Examples	
T	(1-6)	More Examples on Vector Space	
		Properties of Vector Space	
		Examples	
		SUNDAY - 07.01.2024	
		Examples	
		Examples	
2	January	Exercise	
2	(8-13)	Problems	
		Subspace	
		Theorems on Subspace	
		SUNDAY - 14.01.2024	
		Examples	
	January	Exercise	
3	(15-16)	Problems	
5	January	Linear Combination	
	(18-20)	Theorems	
		Examples	
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI			
SUNDAY - 21.01.2024			
	lanuary	Exercise	
	(22-25)	Sum of Spaces and Direct sum	
4	(22-23)	Examples	
	January	Linearly Dependent and Independent Vectors	
	(27)	Theorems	
	F	IOLIDAY - 26.01.2024 - REPUBLIC DAY	
SUNDAY - 28.01.2024			
		Examples	
F	January	Problems	
	(29-31)	Basis and Dimension	
5	February	Finite Dimensional Vector Spaces	
	(1-3)	Theorems	
	-	Examples	
SUNDAY - 04.02.2024			

		Examples	
		Problems	
6	February	Dimension of a Vector Space	
	(5-10)	Theorems	
		Examples	
		Problems	
		SUNDAY - 11.02.2024	
	February	Quotient Space	
	(12-13)	Theorems	
7	(12 13) Eobruary	Examples	
	(15 17)	Homomorphism	
	(15-17)	Test	
	HOLIDAY 14.02.2	2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI	
		SUNDAY - 18.02.2024	
		Kernal of a Homomorphism	
		Theorems based on Homomorphism	
8	February	Linear Transformation	
0	(19-24)	Theorems	
		Examples	
		Problems	
		SUNDAY - 25.02.2024	
	Fahruand	Null Space and Range of a Linear transformation	
	repruary	Theorems	
9	(26-29)	Rank and Nullity of a linear Transformation	
	March	Theorems	
	(1-2)	Examples	
		Algebra of a Linear Transformation	
SUNDAY - 03.03.2024			
	Marah	Vector Space of Linear Transformations	
		Theorems based on Homomorphism	
10	(4-7)	Algebra of a Linear Transformation	
	March	Singular and Non Singular Linear Transformation	
	(9)	Theorems, Examples	
		SUNDAY - 10.03.2024	
		Minimal Polynomial	
	Marah	Theorems, Examples	
11		Initiatrix Associatted with Linear Transformation	
	(11-10)	Evamples	
		Examples	
		SUNDAY - 17.03.2024	

		Transition Matrix
		Examples
17	March	Inner Product Space
14	(18-22)	Problems
		Norm of a vector space
		Schwarz's Inequality
	НС	DLI VACATION - 23.03.2024 - 31.03.2024
		(SHAHEEDI DIWAS - 23.03.2024)
		Orthogonal vectors
	Δnril	Gram Schmidt Orthogonal; isation process
12	۲۳۱۱ (1_6)	Bessels Inequality
12	(1-0)	Gram Schmidt Orthogonal; isation process
		Bessels Inequality
		Examples
		SUNDAY - 07.04.2024
	April	Unitary Transformation
	(8-10)	Theorems
14	(0-10) Annii	Eigen Values and Eigen Vectors
14	Aprii (12,12)	Examples
	(12-13)	Test
		HOLIDAY - 11.04.2024 - ID-UL-FITR
SUNDAY - 14.04.2024		
		SUNDAY - 14.04.2024
	April	SUNDAY - 14.04.2024 Diagonaliosable Linear Operator
	April (15-16)	SUNDAY - 14.04.2024 Diagonaliosable Linear Operator Examples
15	April (15-16) April	SUNDAY - 14.04.2024 Diagonaliosable Linear Operator Examples Problems
15	April (15-16) April (18-20)	SUNDAY - 14.04.2024 Diagonaliosable Linear Operator Examples Problems Diagonaliosable Linear Operator
15	April (15-16) April (18-20)	SUNDAY - 14.04.2024Diagonaliosable Linear OperatorExamplesProblemsDiagonaliosable Linear OperatorExamples
15	April (15-16) April (18-20)	SUNDAY - 14.04.2024 Diagonaliosable Linear Operator Examples Problems Diagonaliosable Linear Operator Examples HOLIDAY - 17.04.2024 - RAM NAVMI
15	April (15-16) April (18-20)	SUNDAY - 14.04.2024 Diagonaliosable Linear Operator Examples Problems Diagonaliosable Linear Operator Examples HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024
15	April (15-16) April (18-20)	SUNDAY - 14.04.2024 Diagonaliosable Linear Operator Examples Problems Diagonaliosable Linear Operator Examples HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Dual Space
15	April (15-16) April (18-20) April	SUNDAY - 14.04.2024 Diagonaliosable Linear Operator Examples Problems Diagonaliosable Linear Operator Examples HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Dual Space Dual Space
15	April (15-16) April (18-20) April (22-27)	SUNDAY - 14.04.2024 Diagonaliosable Linear Operator Examples Problems Diagonaliosable Linear Operator Examples HOLIDAY - 17.04.2024 - RAM NAVMI SUNDAY - 21.04.2024 Dual Space Dual Space Theorems
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LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester) vi semester

Name of the Paper:- REAL AND COMPLEX ANALYSIS Class: B.Sc/B.A III

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

WEEK	DATE	TOPICS	
		Introduction to Jacobians. Definition of Jacoban.	
		Chain rule for Jacobian and some results based on Jacobians	
	January	Examples to find jacobian of given functions	
1	(1-6)	Examples to find jacobian of given functions	
		Exercise 1.1	
		Exercise 1.1	
	1	SUNDAY - 07.01.2024	
		Functional dependence (or non independance)	
		examples related to functional dependecy	
	lanuary	Exercise 1.2	
2	(8-13)	Definition of Beta function and two properties of beta function	
		third property of Beta function	
		Examples and Exerise 2.1	
		SUNDAY - 14.01.2024	
		introduction to Gamma function . recuurence formula for gamma	
	Januarv	function	
	(15-16)	Relation between Beta and Gamma function	
3		Examples to find Gamma function	
	(19.20)	Duplication formula	
	(18-20)	legendre 's formula	
		Exercise 2.2	
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI			
SUNDAY - 21.01.2024			
	_	Introduction of Fourier Series, some important Results on Definite	
	January	Fourier series for even and odd functions	
А	(22-25)	Dirichlets conditions , Properties of fourier coefficients and examples	
•	January	of Exercise 4.1	
	(27)	Exercise 4.1	
		doubt class	
HOLIDAY - 26.01.2024 - REPUBLIC DAY			
SUNDAY - 28.01.2024			
5		fourier expansion of functions having points of discontinuity	
	January	Examples of exercise4.2	
	(29-31)	introduction to double integral, evaluation of double integrals	
	February	some examples to evaluate double integral	
	(1-3)	substitution method for double integrals and example based on it	
SUNDAY - 04.02.2024			

6 February (5-10) Application of double and triple integrals and examples Application of double and triple integrals for finding area and volume of surfaces with examples Dirichlet's integral Ichange of order of integration with examples SUNDAY - 11.02.2024 SUNDAY - 11.02.2024 Continuity extension of Dirichlet's integral Ichange of order of integration with examples SUNDAY - 11.02.2024 SUNDAY - 13.02.2024 HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI SUNDAY - 18.02.2024 SUNDAY - 18.02.2024 Bifferentiability of a complex function Rule of Differentiation Geometric interpretation of the derivative introduction to analytic function, Cauchy-Riemann equations introduction to fr(2) to be analytic,C-R equations in polar form SUNDAY - 25.02.2024 SUNDAY - 25.02.2024 SUNDAY - 03.03.2024			Explanation to triple integral with the help of some examples	
6 February (5-10) Application of double and triple integrals for finding area and volume of surfaces with examples 6 Application of double and triple integrals for finding area and volume of surfaces with examples 7 February (12-13) Ealculus of complex functions introduction stereographic projection of complex numbers with examples complex function or functions of a complex variable , limit of a complex function continuity of a complex variable , limit of a complex function continuity of a complex function, uniform continuity examples 7 February (15-17) Complex function continuity of a complex function, uniform continuity examples BUDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI SUNDAY - 18.02.2024 BUIDAY - 18.02.2024 BUDAY - 18.02.2024 BUDAY - 18.02.2024 BUDAY - 18.02.2024 BUDAY - 10.02.2024 BUDAY - 10.02.2024 BUDAY - 10.02.2024 BUDAY - 25.02.2024 SUNDAY - 25.02.2024 SUNDAY - 25.02.2024 Pebruary (26-29) March (1-2) Pebruary (26-29) March (1-2) Pebruary (26-29) March (1-2) Pebruary (26-29) March (1-2) Pebruary (26-29) March (1-2) Pebruary (26-29) March (1-2) introd			substitution method for triple integrals and examples	
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(1-2) construction of an analytic function- Milne's Thompson's method EXAMPLES SUNDAY - 03.03.2024 March Applications of Analytic functions to field and flow problems introduction to Multi- valued function Branch,Branch cut, Branch point (4-7) Branch,Branch cut, Branch point (9) properties of exponential functions examples HOLIDAY - 08.03.2024 - MAHA SHIVRATRI SUNDAY - 10.03.2024 March Infigonometrical functions sinz and cosz Trigonometrical functions sinz and cosz Properties of trigonometrical (Euler's theorem, De-Morvre's properties of trigonometrical (Euler's theorem, De-Morvre's		March	, , , , , , , , , , , , , , , , , , , ,	
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SUNDAY - 03.03.2024Applications of Analytic functions to field and flow problems introduction to Multi- valued function(4-7)Branch,Branch cut, Branch point(4-7)Branch,Branch cut, Branch point(9)Properties of exponential functions examplesHOLIDAY - 08.03.2024 - MAHA SHIVRATRISUNDAY - 10.03.2024Trigonometrical functions sinz and coszTrigonometrical functions sinz and coszTrigonometrical functions sinz and coszTrigonometrical functions sinz and coszProperties of trigonometrical (Euler's theorem, De-Morvre's			EXAMPLES	
March (4-7)Applications of Analytic functions to field and flow problems introduction to Multi- valued function10March (4-7)Branch,Branch cut, Branch pointMarch (9)Elementary functions- Exponential function properties of exponential functions examplesHOLIDAY - 08.03.2024 - MAHA SHIVRATRISUNDAY - 10.03.2024Trigonometrical functions sinz and coszTrigonometrical functions sinz and coszTrigonometrical functions sinz and coszTrigonometrical functions sinz and coszProperties of trigonometrical (Euler's theorem, De-Morvre's			SUNDAY - 03.03.2024	
March (4-7) Marchintroduction to Multi- valued function10(4-7) Branch,Branch cut, Branch point Elementary functions- Exponential function properties of exponential functions examplesUDAY - 08.03.2024 - MAHA SHIVRATRISUNDAY - 10.03.2024Trigonometrical functions sinz and cosz Trigonometrical functions sinz and cosz examples11March (11-16)			Applications of Analytic functions to field and flow problems	
10(4-7) March (9)Branch,Branch cut, Branch point Elementary functions- Exponential function properties of exponential functions examplesHOLIDAY - 08.03.2024 - MAHA SHIVRATRISUNDAY - 10.03.2024Trigonometrical functions sinz and coszTrigonometrical functions sinz and coszTrigonometrical functions sinz and coszTrigonometrical functions sinz and coszTrigonometrical functions sinz and coszProperties of trigonometrical (Euler's theorem, De-Morvre's		March	introduction to Multi- valued function	
March Elementary functions- Exponential function (9) properties of exponential functions examples HOLIDAY - 08.03.2024 - MAHA SHIVRATRI SUNDAY - 10.03.2024 March March Trigonometrical functions sinz and cosz Trigonometrical functions sinz and cosz properties of trigonometrical (Euler's theorem, De-Morvre's	10	(4-7)	Branch,Branch cut, Branch point	
(9) properties of exponential functions examples HOLIDAY - 08.03.2024 - MAHA SHIVRATRI SUNDAY - 10.03.2024 Trigonometrical functions sinz and cosz Properties of trigonometrical (Euler's theorem, De-Morvre's		March	Elementary functions- Exponential function	
March Trigonometrical functions sinz and cosz 11 March (11-16) properties of trigonometrical (Euler's theorem, De-Morvre's		(9)	properties of exponential functions	
March (11-16) March Properties of trigonometrical (Euler's theorem, De-Morvre's			examples	
11 March (11-16) Trigonometrical functions sinz and cosz Trigonometrical functions sinz and cosz examples	HULIDAY - U8.U3.2U24 - MAHA SHIVRATRI			
11 Trigonometrical functions sinz and cosz Trigonometrical functions sinz and cosz Examples properties of trigonometrical (Euler's theorem, De-Morvre's	SUNDAY - 10.03.2024			
11 March (11-16) March properties of trigonometrical (Euler's theorem, De-Morvre's	11		Irigonometrical functions sinz and cosz	
11 March (11-16) properties of trigonometrical (Euler's theorem, De-Morvre's			Irigonometrical functions sinz and cosz	
(11-16)		March	examples	
((11-16)	theorem for complex numbers	
Introduction to Hyperbolic functions		-	Introduction to Hyperbolic functions	
Properties of Hyperbolic functions			Properties of Hyperbolic functions	
			SUNDAY - 17 03 2024	
	SUNDAY - 17.03.2024			

13		the logarithmic function		
		properties of the logarithmic function		
	March	inverse trogonometric and hyperbolic functions		
12	(18-22)	Mapping by elementary functions and examples		
		conformal mappping, linear transformation		
	НС	OLI VACATION - 23.03.2024 - 31.03.2024		
		(SHAHEEDI DIWAS - 23.03.2024)		
		Mobius transformation or Bilinear transformations		
	April	critical points		
12	(1-6)	fixed points nature of mobius transformation		
15	(1-0)	nature of mobius transformation		
		Problem Discussion		
		SUNDAY - 07.04.2024		
	April	Problem Discussion		
	(8-10)	Test		
14	April	inverse point		
	(12-13)	Exercise 6.2		
	(12 13)	Problem Discussion		
		Revision		
HOLIDAY - 11.04.2024 - ID-UL-FITR				
		SUNDAY - 14.04.2024		
	April	introduction to critical mappings		
45	(15-16)	differential transformation w= exp(z)		
15	April	Logarithmic transformation w= log z		
	(18-20)	trogonometric transformations		
		examples		
		HULIDAY - 17.04.2024 - KAWI NAVIVII		
		SUNDAT - 21.04.2024		
		examples		
	April	exercise 7.1		
16	(22-27)	exercise 7.1		
		Problem Discussion		
SUNDAY - 28.04.2024				
	Δρril	TEST		
17	(20 20)	Test		
17	(29-30)	Revision		
		Revision		
University Examinations w.e.f. 01.05.2024				

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:- Dynamics

Class: B.Sc/B.A(III)

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

WEEK	DATE	TOPICS		
		Discussion of some basic concepts and definitions		
		Concept of displacement, velocity, acceleration, Conversion formulae		
1	January	Motion with constant acceleration		
1	(1-6)	Particle projected vertically downwards		
		Particle projected vertically upwards under gravity.		
		SUNDAY - 07.01.2024		
		Motion along a plane curve, velocity along a plane curve		
		Acceleration along a plane curve		
2	January	Components of velocity and acceleration		
2	(8-13)	Angular veocity and angular acceleration		
		Relation between angular and linear velocity		
		Questions related to angular and linear velocity		
		SUNDAY - 14.01.2024		
		Concept of radial and transverse velocity and acceleration and their derivations		
	January	Concept of radial and transverse velocity and acceleration and their derivations		
3	(15-16)	Problems based on radial and transverse velocity and acceleration		
3	January	Concept of tangential and normal velocity and acceleration		
	(18-20)	Derivation of tangential and normal velocity		
		Derivation of tangential and normal acceleration		
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI				
SUNDAY - 21.01.2024				
	January	Questions and discussion of problems		
	(22-25)	Questions and discussion of problems		
4	lanuary	Relative Displacement, Relative Velocity		
	(27)	Determination of Relative Velocity		
	(27)	Expression for the magnitude and direction of Relative Velocity		
HOLIDAY - 26.01.2024 - REPUBLIC DAY				
SUNDAY - 28.01.2024				
5		Questions based on relative velocity and discussion of problems		
	January	Questions based on relative velocity and discussion of problems		
	(29-31)	Questions based on relative velocity and discussion of problems		
5	February	Class Test		
	(1-3)	Simple Harmonic Motion		
		Derivation of expression for Simple Harmonic Motion		
SUNDAY - 04.02.2024				

6		Nature and Amplitude of Simple Harmonic Motion
		Periodic motion and articles based on it
	February	Frequency
	(5-10)	Questions based on Simple Harmonic Motion
		Questions based on Simple Harmonic Motion
		Problem Discussion
		SUNDAY - 11.02.2024
	February	Introduction to Newton's laws of Motion
	(12.12)	Mass, momentum and force
7	(12-13)	Gravitational Force
	February	test
	(15-17)	
	HOLIDA	Y 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI
		SUNDAY - 18.02.2024
		Newton's first ,second and third laws of Motion
		Questions based on Newton's laws of Motion
8	February	Questions based on Newton's laws of Motion
0	(19-24)	Pressure of a body resting on a horizontal plane moving vertically upwards or downw
		Pressure of a body resting on a horizontal plane moving vertically upwards or downw
	-	SUNDAY - 25.02.2024
		Pressure of a body resting on a horizontal plane moving vertically upwards or downw
	February	Related questions
9	(26-29)	Related questions
	March	Class Test
	(1-2)	examples
		SUNDAY - 03.03.2024
	March	Motion of a lift and problems based on it
		Motion of a lift and problems based on it
10	(4-7)	Motion of two bodies connected by a string and related articles
	Iviarch	Motion on a smooth horizontal plane
	(9)	
		SUNDAY - 10 03 2024
	1	Questions and discussion of problems
		Questions and discussion of problems
	March	Projectile Motion and articles based on it
11	(11-16)	Derivations for latus rectum, vertex, directrix
	(,	Axis of trajectory of a projectile, time of flight, horizontal range, greatest height, direct
		SUNDAY - 17.03.2024

12		Questions based on Projectile Motion
		Questions based on Projectile Motion
	March	Concept of velocity at any point of trajectory and related problems.
12	(18-22)	Concept of velocity at any point of trajectory and related problems.
		Derivations for finding directions of projection for a particle to hit a given point and pr
		Derivations for finding directions of projection for a particle to hit a given point and pr
		HOLI VACATION - 23.03.2024 - 31.03.2024
		(SHAHEEDI DIWAS - 23.03.2024)
		Concept of range and time of flight on an inclined plane and their derivations
	A	Maximum range up the plane, questions based on it and discussion of problems
40	April	Work, Power and Energy
13	(1-6)	Examples
		examples
		SUNDAY - 07.04.2024
	April	Elastic Strings
	(8-10)	Introduction to Central Orbits and derivation of theorems based it
14	(0 10) April	Derivation of differential equation of central orbit in polar form
14	(12,12)	Derivation of differential equation of central orbit in pedal form
	(12-13)	Areal velocity and its derivation
		HOLIDAY - 11.04.2024 - ID-UL-FITR
		SUNDAY - 14.04.2024
	April	Derivation of results for elliptic orbit
	(15-16)	Hyperbolic orbit and parabolic orbit
15	April	Velocity in a circle and related theorems, Problems based on central orbits
	(18-20)	Apse and apsidal distances, theorems based on apse and apsidal distances
	()	
		HOLIDAY - 17.04.2024 - RAM NAVMI
	•	SUNDAY - 21.04.2024
		Velocity from infinity, questions based on apse and apsidal distances and Discussion of
	April	Kepler's Laws of Planetary Motion
16	(22-27)	Motion of a particle on smooth and rough plane curves.
	(22 27)	Cycloidal motion, motion on a cycloid and questions based on it
		Motion on a rough curve under gravity, motion of a particle in three dimensions
		SUNDAY - 28.04.2024
	April	Velocity and acceleration of a particle along a curve and its derivation
17	(29-30)	Acceleration of a particle in terms of spherical and cylindrical polar co-ordinates , related
	(23-30)	Problem Discussion
		Problem discussion
	•	University Examinations w.e.f. 01 05 2024

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester) VI - Semester

Name of the Paper:- Atomic and molecular spectroscopy :

Class: B.Sc.

Name of the Teachers (Section Wise) : Ms Sonia

WFFK	DATE	TOPICS
1	January (1-6)	Atomic and molecular spectroscopy : Historical Background Of Atomic Spectroscopy , Introduction Of Early Observations, Emission And Absorption Spectra, Atomic Spectra, Wave Number
		SUNDAY - 07.01.2024
2	January (8-13)	Spectra Of Hydrogen Atom, Bohr's Postulates , Explanation Of Spectral Series in Hydrogen Atom, Unquantized States Spectral Series In Absortion Spectra , Effect Of Nuclear Motion On Line Spectra (Correction Of Finite Nuclear Mass)And Continous SpectraVariation In Rydberg Constant Due To Finite Mass , Short Comings Of Bohr's Theory, Wilson Sommerfeld Quantization Rule ,
		SUNDAY - 14.01.2024
3	January (15-16) January (18-20)	De-Broglie Interpretation Of Bohr Quantization LawBohr's Corresponding Principle , Sommerfeld's Extension Of Bohr's ModelSommerfeld Extension Of Bohr's Model, Sommerfeld Relativistic CorrectionModel , Short Coming Of Bohr's Sommerfeld Theory , Vector Atom Model , Space Quantization Electron Spin, Coupling Of Orbital And Spin Angular Momentum
	HOLI	DAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI
		SUNDAY - 21.01.2024
4	January (22-25) January (27)	Model , Transition Probability And Selection Rules Problem Discussion, Vector Atom Model : Orbital Magnetic Dipole Moment (Bohr's Magneton) ,Behavior Of Magnetic Dipole In External Magnetic Field Larmor's Precession And Theorem, Penetrating And Non-Penetrating Orbits
		HOLIDAY - 26.01.2024 - REPUBLIC DAY
		SUNDAY - 28.01.2024
5	January (29-31) February (1-3)	Penetrating Orbits On Classical Model , Quantum Defect Spin Orbit Interaction ,Energy Of Single Valence Electron
		SUNDAY - 04.02.2024

6	February (5-10)	Spin Orbit Interaction For Penetrating Orbits Spin Orbit Interaction For Non Penetrating Orbits Quantum Mechanical Relativity Correction ,Hydrogen Fine Spectra	
	1	Main Eastures Of Alkali Spectra And Their Theoretical Interpretation	
	February	Term Series And Limits Pudberg - Pitze Combination Principle	
7	(12-13)	Absorption Spectra Of Alkali Atoms	
-	February		
	(15-17)		
	HOLIDAY	14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI	
		SUNDAY - 18.02.2024	
8	February (19-24)	Observed Doublet Fine Structure In The Spectra Of Alkali Metals And Its Interpretation Intensity Rules For Doublets ,Comparison Of Alkali Spectra And Hydrogen Spectrum Vector atom model : essential features of spectra of alkaline – earth elements	
1	•	SUNDAY - 25.02.2024	
		Vector model for 2 valence electrons atom , application of spectra	
9	February (26-29) March (1-2)	Coupling schemes: I-s or russell – saunders coupling scheme , Assignment J-J Coupling scheme, interaction energy in I-s coupling (s-p) configuration Interaction energy in I-s coupling (p-d) configuration	
	. ,		
		SUNDAY - 03.03.2024	
		Lande interval rule, pauli principle and periodic classification of elements	
	March		
	(4-7)	Interaction energy in j-j coupling, Interaction energy in j-j coupling (s-p,p-d) configuration	
10	March	spectral Terms of Equivalent And Non Equivalent Electrons	
	(9)		
	.,		
		HOLIDAY - 08.03.2024 - MAHA SHIVRATRI	
	SUNDAY - 10.03.2024		
		Conditional Test	
11	March (11-16)	Comparison of spectral terms of I-s and j-j coupling , hyperfine structure of spectral lines and its origin effect , nuclear spin , problem discussion	
		SUNDAY - 17 03 2024	
SUNDAY - 17.03.2024			

12		Atom in external field : Zeeman effect (normal and anomalous)
		, experimental set-up for studying Zeeman effect, Explanation of normal
		Zeeman effect
	(18,22)	(classical and quantum mechanical)
	(18-22)	
		HOLI VACATION - 23.03.2024 - 31.03.2024 (SHAHEEDI DIWAS - 23.03.2024)
		Explanation of anomalous Zeeman effect (lande g-factor), Zeeman pattern of D1and D2
		lines of sodium atom
	April	Paschen-back effect of a single valance electron system
13	(1-6)	
	T	SUNDAY - 07.04.2024
		Weak field stark effect of hydrogen atom , problem discussion
	April	
	(8-10)	Molecular physics: general consideration, electronic states of diatomic
14	April	
	(12-13)	
		HOLIDAY - 11.04.2024 - ID-UL-FITR
	T - •	SUNDAY - 14.04.2024
	April	
4-	(15-16)	
15	April	
	(18-20)	
	I	
		SUNDAT - 21.04.2024
		group discussion
	April	
16	(22-27)	
		SUNDAY - 28 04 2024
	1	Revision and group discussion
	April	
17	(29-30)	
	I	University Examinations w.e.f. 01.05.2024

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

UG (IV / VI - Semester) - VI Semester

Name of the Paper:- Solid State and Nano Physics

Class: Bsc. IIIrd

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

WEEK	DATE	TOPICS
	January	
1	(1-6)	
		SUNDAY - 07.01.2024
		INTRODUCTION, Crystalline and glassy forms, liquid crystals, crystal structure
2	January	
_	(8-13)	
		Periodicity, lattice and basis
		Crystal translational vectors and axes
		SUNDAY - 14.01.2024
	lanuary	
	(1E 1C)	Unit cell and Primitive Cell, Winger Seitz primitive Cell
3	(15-16)	
	January	Commenter and the second second second second second
	(18-20)	Symmetry operations for a two dimensional crystal
	НО	II IDAY - 17 01 2024-SHRI GURU GOBIND SINGH II IAYANTI
		SUNDAY - 21.01.2024
	lanuary	
	(22.2E)	Crystal planes and Miller indices
4	(22-25)	
	January	
	(27)	Interplaner spacing, Crystal structures of Zinc Sulphide,
		HOLIDAY - 26.01.2024 - REPUBLIC DAY
		SUNDAY - 28.01.2024
	_	
	January	Sodium Chloride and Diamond
5	(29-31)	
	February	
	(1-3)	UNIT -2, INTRODUCTION and X-ray diffraction
		Bragg's Law and experimental X-ray diffraction methods
		SUNDAY - 04.02.2024

6		K-space and reciprocal lattice and its physical significance
	February	
Ū	(5-10)	
		Reciprocal lattice vectors, reciprocal lattice to a simple cubic lattice
		b.c.c. and f.c.c.
		SUNDAY - 11.02.2024
	February	
	(12-13)	UNIT-3, Historical introduction, Survey of superconductivity
7	(== =o) February	
	(15-17)	Super conducting systems, High Tc Super conductors
	(15-17)	Isotopic Effect
	HOLIDA	AY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI
		SUNDAY - 18.02.2024
		Critical Magnetic Field
8	February	
C C	(19-24)	
		Meissner Effect
		London Theory and Pippards' equation
		SUNDAY - 25.02.2024
	F abricania	
	February	Classification of Superconductors (type I and Type II),
9	(26-29)	
	March	
	(1-2)	BCS Theory of Superconductivity
		Flux quantization, Josephson Effect (AC and DC)
		SUNDAY - 03.03.2024
	March	Described Analisations of successional with the
	(4 7)	
10	(4-7)	
	(9)	Desetial Applications of supersonal sticks and their limitations
		SUNDAT - 10.05.2024
		Power application of superconductors
11	March	
	(11 16)	
	(11-10)	Conditional test
		LINIT-4 Introduction of Nano physics
SUNDAY - 17.03.2024		

12		
		Definition, Length scale
	March	
	(18-22)	
		Importance of Nano-scale and technology
	<u> </u>	HOLLVACATION - 23 03 2024 - 31 03 2024
		(SHAHEEDI DIWAS - 23.03.2024)
	April	History of Nantechnology
13	(1-6)	
	()	
		Benefits and challenges in molecular manufacturing
	[Molecular assembler concept
	Г	SUNDAY - 07.04.2024
	April	
	(8-10)	
14	April	
	(12-13)	Vision and objective of Nano-technology
		Nanotechnology in different field
		HOLIDAY - 11.04.2024 - ID-UL-FITR
		SUNDAY - 14.04.2024
	April	
	(15-16)	Nanotechnology in different field, Automobile, Electronics
15	April	
	(18-20)	Nano-biotechnology, Materials, Medicine.
		Numerical Problems discussion
		HOLIDAY - 17.04.2024 - RAM NAVMI
		SUNDAY - 21.04.2024
		Numerical Problems discussion
	April	
16	(22-27)	
		Revision
		Revision
	L	
		JUNDAT - 20.04.2024
	April	Revision
17	(29-30)	
	<u> </u>	University Examinations w.e.f. 01 05 2024