

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester) Vth Sem

Name of the Paper:- Plant Biotechnology

Class: BSc.III

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

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	
		Plant Tissue Culture: Introduction/Concept, History, Scope and Applications along with major achievements Plant Tissue Culture: Introduction/Concept, History, Scope and Applications along with major achievements
SUNDAY - 13.08.2023		
3	August (14-19)	Plant Tissue Culture Laboratory
		Aseptic Techniques
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	maintenance of aseptic conditions
		In-vitro methods in plant tissue culture In-vitro methods in plant tissue culture
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Callus and suspension culture techniques
		Callus and suspension culture techniques Somaclonal variation.
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Somaclonal variation.
		Organ culture Organ culture
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Assignment
		Protoplast culture Protoplast culture
SUNDAY - 17.09.2023		
8	September (18-22)	Production of secondary metabolites in vitro
		Production of secondary metabolites in vitro

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Biotransformation
		Biotransformation
		Plant germ plasm conservation and cryopreservation
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Plant germ plasm conservation and cryopreservation
		Introduction, Plant transformation
		Introduction, Plant transformation
SUNDAY - 08.10.2023		
11	October (9-14)	Introduction, Plant transformation
		Transgenic Plants: Introduction and applications
	Transgenic Plants: Introduction and applications	
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Transgenic Plants: Introduction and applications
		Transgenic Plants: Introduction and applications
	Applications of Plant tissue cultures	
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Applications of Plant tissue cultures
		Applications of Plant tissue cultures
	Applications of Plant tissue cultures	
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Applications of Plant tissue cultures
		Applications of Plant tissue cultures
		Applications of Plant tissue cultures
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	
		Revision
		Revision
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	
SUNDAY - 19.11.2023		
17	November (20-24)	Test
		Test
		Test
25.11.2023 - Examinations		

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester) : V

Name of the Paper:-EVOLUTION AND DEVELOPMENTAL BIOLOGY

Class: BSC 3rd

Name of the Teachers (Section Wise) : KIRTI

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	GAMETOGENESIS
		GENERAL STRUCTURE OF MAMMALIAN SPERM
		SPERMATOGENESIS
SUNDAY - 13.08.2023		
3	August (14-19)	SPERMATOGENESIS
		SPERMATOGENESIS
		HORMONAL CONTROL OF SPERMATOGENESIS
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	OOGENESIS
		OOGENESIS
		HORMONAL CONTROL OF OOGENESIS
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	FERTILISATION
		FERTILISATION
		CLEAVAGE PATTERNS
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	PARTHENOGENESIS
		BLASTULATION
		BLASTULATION
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	FATE MAP IN FROG
		FATE MAP IN FROG
		FATE MAP IN CHICK
SUNDAY - 17.09.2023		
8	September (18-22)	FATE MAP IN CHICK
		GASTRULATION IN FROG
		GASTRULATION IN CHICK

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	PRIMARY ORGANISERS
		PRIMARY ORGANISERS
		EXTRA EMBRYONIC MEMBRANES
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	EXTRA EMBRYONIC MEMBRANES
		CONCEPT OF COMPETENCE , DETERMINATION
		CONCEPT OF DIFFERENTIATION
SUNDAY - 08.10.2023		
11	October (9-14)	REGENERATION
		REGENERATION
		ORIGIN OF LIFE
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	CONCEPT AND EVIDENCES OF ORGANIC EVOLUTION
		THEORIES OF ORGANIC EVOLUTION
		THEORIES OF ORGANIC EVOLUTION
SUNDAY - 22.10.2023		
13	October (23, 25-27)	CONCEPT OF MICRO, MACRO AND MEGA EVOLUTION
		CONCEPT OF MICRO, MACRO AND MEGA EVOLUTION
		CONCEPT OF SPECIES
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	PHYLOGENY OF HORSE
		PHYLOGENY OF HORSE
		TEST AND ASSIGNMENT
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	EVOLUTION OF MAN
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	EVOLUTION OF MAN
SUNDAY - 19.11.2023		
17	November (20-24)	TEST
		REVISION
25.11.2023 - Examinations		

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LESSON PLAN
SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (V Semester)

Name of the Paper:- Organic Chemistry Class:

B.Sc. 3rd Year

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

WEEK	DATE	TOPICS
1	August (5)	Hawan Ceremony
SUNDAY - 06.08.2023		
2	August (7-12)	Carbohydrates Classification and nomenclature of Monosaccharides, mechanism of osazone formation, interconversion of glucose and fructose,
SUNDAY - 13.08.2023		
3	August (14-19)	chain lengthening and chain shortening of aldoses. Configuration of monosaccharides. Erythro and threo diastereomers.
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Conversion of glucose into mannose. Formation of glycosides,
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Determination of ring size of glucose and fructose. Open chain and cyclic structure of D(+)- glucose & D(-) fructose.
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Mechanism of mutarotation. Structures of ribose and deoxyribose.
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	An introduction to disaccharides (maltose, sucrose and lactose) and polysaccharides (starch and cellulose) without involving structure determination.
SUNDAY - 17.09.2023		
8	September (18-22)	Organometallic Compounds Organomagnesium compounds: the Grignard reagents- formation, structure and chemical reactions.

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Organozinc compounds: formation and chemical reactions. Organolithium compounds: formation and chemical reactions.
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	NMR Spectroscopy Principle of nuclear magnetic resonance, the PMR spectrum, number of signals, peak areas, equivalent and nonequivalent protons
SUNDAY - 08.10.2023		
11	October (9-14)	positions of signals and chemical shift, shielding and deshielding of protons,
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	proton counting, splitting of signals and coupling constants, magnetic equivalence of protons.
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Discussion of PMR spectra of the molecules: ethyl bromide, n-propyl bromide, isopropyl bromide, 1,1-dibromoethane, ethanol,
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	acetaldehyde, ethyl acetate, toluene, benzaldehyde and acetophenone..
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Simple problems on PMR spectroscopy for structure determination of organic compounds.
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	Revision
SUNDAY - 19.11.2023		
17	November (20-24)	Revision
25.11.2023 - Examinations		

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LESSON PLAN
SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester) : Sem:Vth

Name of the Paper:- Ecology

Class: BSc III rd

Name of the Teachers (Section Wise) : Dr.Nidhan Singh

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	
		Introduction to Ecology
		Introduction to Ecology
		Scope of Ecology
SUNDAY - 13.08.2023		
3	August (14-19)	
		Levels of Organisation, Environment
		Levels of Organisation, Environment
		Environmental Components
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	
		Climatic Factors- Water
		Climatic Factors- Water, Humidity
		Climatic Factors- Wind and Light
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	
		Climatic Factors- Light
		Edaphic Factors- Soil Complex
		Soil- Physico-chemical Properties
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	
		Soil- Physico-chemical Properties
		Soil-Profiles
		Hydrophytes- Adaptations
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	
		Hydrophytes- Adaptations
		Hydrophytes- Adaptations
		Xerophytes- Adaptations
SUNDAY - 17.09.2023		
8	September (18-22)	
		Halophytes- Adaptations
		Population Characteristics-Qualitative

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	
		Population Characteristics-Qualitative
		Biotic Potential
		Growth Curves, Ecotypes, Ecads
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	
		Community Characteristics-I
		Community Characteristics-I
		Community Characteristics-II
SUNDAY - 08.10.2023		
11	October (9-14)	
		Community Characteristics-II
		Ecological Succession
		Ecological Succession
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	
		Ecological Succession
		Ecosystem Structure
		Ecosystem Structure
SUNDAY - 22.10.2023		
13	October (23, 25-27)	
		Ecosystem -Food Chains, webs
		Ecosystem -Food Chains, webs
		Assignments
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	
		Ecological Pyramids
		Ecological Pyramids
		Ecological Pyramids
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	Energy Flow
		Energy Flow
SUNDAY - 19.11.2023		
17	November (20-24)	
		Assignments
		Test
		Test
25.11.2023 - Examinations		

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LESSON PLAN
SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (Vth - Semester)

Name of the Paper:- Environmental Biology

Class: B.Sc. Zoology

Name of the Teachers (Section Wise) : Pawan Kumar

WEEK	DATE	TOPICS
1	August (5)	Basic concepts of ecology
SUNDAY - 06.08.2023		
2	August (7-12)	Basic concepts of ecology
		Basic concepts of ecology
		Basic concepts of ecology
SUNDAY - 13.08.2023		
3	August (14-19)	Basic concepts of ecology
		Factors affecting environment
		Factors affecting environment
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Factors affecting environment
		Factors affecting environment
		Factors affecting environment
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Factors affecting environment
		Factors affecting environment
		Class Test
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Introduction to major ecosystem of the world.
		Introduction to major ecosystem of the world.
		Introduction to major ecosystem of the world.
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Ecosysytem
		Ecosysytem
		Ecosysytem
SUNDAY - 17.09.2023		
8	September (18-22)	Ecosysytem
		Ecosysytem
		Assignment

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Biogeochemical cycles
		Biogeochemical cycles
		Biogeochemical cycles
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	
SUNDAY - 08.10.2023		
11	October (9-14)	Biogeochemical cycles
		Biogeochemical cycles
		Class Test
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Population
		Population
		Concept of biodiversity
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Concept of biodiversity
		Concept of biodiversity
		Concept of biodiversity
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Migration in fishes and birds
		Migration in fishes and birds
		Class Test
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Population interactions
		Population interactions
		Population interactions
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	
SUNDAY - 19.11.2023		
17	November (20-24)	Environmental Pollution
		Environmental Pollution
		Environmental Pollution
25.11.2023 - Examinations		

I.B. (PG) COLLEGE, PANIPAT**LESSON PLAN****SESSION 2023-24 (05.08.2023 to 24.11.2023)****Weekly Lesson Plan (Odd Semester)****UG (1st / III / V - Semester) : Vth Sem****Name of the Paper:- Plant Physiology****Class: BSc.III rd****Name of the Teachers (Section Wise) : Ms.Rajni**

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	plant water relation
		plant water relation
		absorption of water
SUNDAY - 13.08.2023		
3	August (14-19)	absorption of water
		Translocation of water
		Translocation of water
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Mineral nutrition
		Mineral nutrition
		Uptake of mineral nutrient
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Uptake of mineral nutrient
		Translocation of organic solute
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Photosystem-1
		Photosystem-1
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Photosystem-1
		Photosystem-2
		Photosystem-2
SUNDAY - 17.09.2023		
8	September (18-22)	Respiration-1
		Respiration-1
		Respiration-1

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Respiration-2
		Respiration-2
		Respiration-2
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Seed germination and Dormancy
		Seed germination and Dormancy
SUNDAY - 08.10.2023		
11	October (9-14)	Senescence and fruit ripening
		Senescence and fruit ripening
		Senescence and fruit ripening
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Physiology of flowering
		Physiology of flowering
		ASSIGNMENT AND TEST
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Physiology of flowering
		Physiology of flowering
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Physiology of flowering
		Physiology of flowering
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Plant movement
		Plant movement
		REVISION
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	
SUNDAY - 19.11.2023		
17	November (20-24)	REVISION
		REVISION
		REVISION
25.11.2023 - Examinations		

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LESSON PLAN
SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG - V Semester

Name of the Paper:-Animal Biotechnology

Class: B.Sc. III

Name of the Teachers (Section Wise) : Sneha

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	Animal Cell & Tissue Culture
		Animal Cell & Tissue Culture
		Culture Media
SUNDAY - 13.08.2023		
3	August (14-19)	Culture Media
		Primary Cell Culture techniques
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Primary Cell Culture techniques
		Primary Cell Culture techniques
		Secondary cell culture
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Secondary cell culture
		Cell lines
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Organ Culture: technique
		Transfection methods
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Transfection methods
		Selectable markers
		Selectable markers
SUNDAY - 17.09.2023		
8	September (18-22)	Cloning and expression :genes
		Cloning and expression :genes
		Class Test

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Production of vaccines in animal cells
		Production of vaccines in animal cells
		Hybridoma Technology
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Embryo transfer technology
		Embryo transfer technology
		Test
SUNDAY - 08.10.2023		
11	October (9-14)	Transgenic Animals
		Transgenic Animals
		Assignment
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Therapeutic products
		Therapeutic products
		Gene Therapy
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Gene Therapy
		Test
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Scope and Applications
		Scope and Applications
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Expressed proteins
		Expressed proteins
		Expressed proteins
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	Class Test
		Revision
SUNDAY - 19.11.2023		
17	November (20-24)	Revision
		Revision
		Revision
25.11.2023 - Examinations		

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LESSON PLAN
SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG - 5th Semester

Name of the Paper:- Numerical Analysis(Mathematics)

Class: B.Sc.-III

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

WEEK	DATE	TOPICS
1	August (5)	Introduction to Finite Difference Operators
SUNDAY - 06.08.2023		
2	August (7-12)	Introduction to Finite Difference Operators, Definitions and their relations
SUNDAY - 13.08.2023		
3	August (14-19)	Finding the missing terms and Effect of error in a tabulated value
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Interpolation With Equal Intervals, Newton Forward Interpolatio Formulae
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Newton Backward Interpolatio Formulae, Subdivision of Intervals
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Interpolation With Unequal Intervals, Newton's Divided Differences, Lagranges's Interpolation Formulae
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Hermite Formulae, Central Differences, Gauss Forward Interpolatio Formulae
SUNDAY - 17.09.2023		
8	September (18-22)	Gauss Backward Interpolatio Formulae, Sterling and Bessel Formulae

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Numerical Differentiation: Derivation of a function using Interpolation Formulae
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Eigen Value Problems: Power Method, Jacobi Method, Given's Method
SUNDAY - 08.10.2023		
11	October (9-14)	House Holder's Method, QR Method, Lancos Method
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Numerical Integration: Newton Cote's Quadrature Formulae
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Trapezoidal Rule, Simpson's One Third Rule, Simpson's Three Eighth Rule
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Chebychev Formulae, Gauss Quadrature Formulae, Itrouduction to Numerical Solution of Ordinary Differential Equations
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Numerical Solution of Ordinary Differential Equations: Taylor's Series Method, Euler's Method, Runge Kutta Method, Predictor Corrector Methods
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	Modified Euler's Method, Milne Simpson's Method
SUNDAY - 19.11.2023		
17	November (20-24)	Probability Distribution, Binomial Distribution, Poisson's Distribution
25.11.2023 - Examinations		

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Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester) semester - fifth

Name of the Paper:- Real Analysis

Class: B.SC. III

Name of the Teachers (Section Wise) : Mrs. Bhawna

WEEK	DATE	TOPICS
1	August (5)	BASIC DEFINITION
SUNDAY - 06.08.2023		
2	August (7-12)	ORIENTATION PROGRAM
		INTRODUCTION TO RIEMANN INTEGRAL
		DEFINITION IF PARTITION,NORM, REFINEMENT ,UPPER SUM AND LOWER SUMS
		EXAMPLES BASED UPON LOWER SUM AND UPPER SUM
		DOUBT CLEARING SESSION
SUNDAY - 13.08.2023		
3	August (14-19)	RIEMANN INTEGRAL AND EXAMPLES BASED UPON INTEGRAL FUNCTION
		THEOREM BASED UPON INTEGRABILITY ,DARBOUX 'S THEOREM
		CONDITIONS OF INTEGRABILITY
		INTEGRABILITY OF CONTINUOUS FUNCTIONS
SOME THEOREM AND EXAMPLES		
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	FUNDAMENTAL THEOREM OF INTEGRAL CALCULUS
		MEAN VALUE THEOREM OF INTEGRAL CALCULUS AND EXAMPLES
		INTRODUCTION TO IMPROPER INTEGRALS
		IMPROPER INTEGRALS AND THEIR TYPES & THEIR CONVERGENCE
		EXAMPLES AND EXERCISE 2.1
REVISION		
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	CAMPARISION TESTS AND EXAMPLES BASED ON CAMPARISION TESTS
		EXERCISE 2.2
		ABEL'S AND DRICHLET'S TEST
		FRULLANI;S INTEGRAL
INTRODUCTION TO INTEGRAL AS A FUNCTION OF A PARAMETER		
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	CONTINUITY OF THE INTEGRAL,DIFFERENTIABILITY OF THE INTEGRAL, EXAMPLES AND EXERCISE 3.1
		DOUBT CLEARING SESSION
		INTRODUCTION TO METRIC SPACES
		EXAMPLES BASED UPON DIFFERENT TYPES OF METRIC SPACES
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	BOUNDED SEQUENCE ,BOUNDED FUNCTION ,INDUCED METRIC
		PSEUDO METRIC SPACES AND EXAMPLES BASED ON IT
		DISTANCE BETWEEN POINT AND SUBSET, DIAMETER OF A SUBSET, DISTANCE BETWEEN TWO SETS
		BOUNDED AND UNBOUNDED METRIC SPACES AND EXAMPLES
		EXERCISE 4.1&ALL DOUBTS OF CHAPTER 4
INTRODUCTION TO NEIGHBOURHOOD,LIMIT POINT, INTERIOR POINT' OPEN SETS		
SUNDAY - 17.09.2023		
8	September (18-22)	THEOREM BASED ON LIMIT POINT ,OPEN SET, INTERIOR POINT
		CLOSED SETS,CLOSURE AND INTERIOR,BOUNDARY POINTS
		THEOREM BASED UPON CLOSED SET, BOUNDARY POINT
		REVISION AND PROBLEMS
		DERIVED SET,EXTERIOR POINTS AND EXTERIOR OF A SETS
REVISION		

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	THEOREM BASED UPON EXTERIOR SETS
		EXAMPLES
		THEOREM BASED UPON EXTERIOR SETS
		CAUCHY SEQUENCE , COMPLETE METRIC SPACE AND EXAMPLES
		THEOREM BASED UPON COMPLETE METRIC SPACES
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	CANTOR'S INTERSECTION THEOREM
		CONVERSE OF CANTOR'S INTERSECTION THEOREM
		NOWHERE DENSE SET , DEFINITION OF FIRST CATEGORY AND SECOND CATEGORY SPACE
		BAIRE 'S CATEGORY THEOREM
		CONTRACTION PRINCIPLE IN A METRIC SPACE
SUNDAY - 08.10.2023		
11	October (9-14)	FIXED POINT ,BANACH'S FIXED POINT THEOREM
		DOUBTS AND QUICK REVISION OF CHAPTER 6
		CONTINUOUS FUNCTION IN METRIC SPACES
		EXAMPLES, THEOREMS BASED UPON CONTINUITY IN METRIC SPACES
		UNIFORM CONTINUITY IN METRIC SPACES
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	DEFINITIONS OF COVERS , EXAMPLES
		BOLZANO WEIERSTRASS PROPERTY (BWP)
		SEQUENTIALLY COMPACT METRIC SPACE
		THEOREM BASED UPON SEQUENTIALLY COMPACT METRIC SPACE
		FINITE INTERSECTION PROPERTY (FIP)
SUNDAY - 22.10.2023		
13	October (23, 25-27)	SEPARATED SETS ,CONNECTED AND DISCONNECTED SETS
		THEOREM BASED UPON SEPARATED SETS ,CONNECTED AND DISCONNECTED SETS
		THEOREM BASED UPON SEPARATED SETS ,CONNECTED AND DISCONNECTED SETS
		THEOREM BASED UPON SEPARATED SETS ,CONNECTED AND DISCONNECTED SETS
		TEST
		ASSIGNMENT2
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	revision
		revision
		COMPONENTS
		CONTINUITY AND CONNECTEDNESS
		EXERCISE 9.1
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	TEST
		REVISION AND PROBLEMS
		REVISION OF UNIT I
		TEST
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	REVISION OF UNIT 2
		TEST
SUNDAY - 19.11.2023		
17	November (20-24)	REVISION AND PROBLEMS OF UNIT 3
		REVISION AND PROBLEMS OF UNIT 4
		REVISION AND PROBLEMS
		TEST
		REVISION
25.11.2023 - Examinations		

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Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester)

Name of the Paper:- Groups and Rings

Class: B.Sc. III

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

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	Groups
		Groups
		Examples of Groups
		More examples
SUNDAY - 13.08.2023		
3	August (14-19)	Permutation Group
		Properties of Groups
		Cancellation laws and Theorems
		More Properties of Groups
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Order of a element
		Theorems based on order of an element
		Subgroup
		Algebra of Subgroups
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Cosets
		Theorems based on Cosets
		Lagranges Theorem and questions based on it
		Cyclic group
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Theorems based on Cyclic Groups
		More Theorems based on Cyclic Groups
		Normal subgroups
		Theorems based on Normal Subgroups
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Quotient Group
		Rings
		Examples of Rings
		Integral Domain
SUNDAY - 17.09.2023		
8	September (18-22)	Theorems based on integral domain
		Characteristic of a ring
		Subring
		Ideal

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	annihilator of an ideal
		Algebra of ideals
		ideal generated by a subset
		ideals in division ring
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Quotient Ring
		Maximal ideal and prime ideal
		Theorems based principal ideal domain
		Homomorphism of groups and rings
SUNDAY - 08.10.2023		
11	October (9-14)	Kernal of a homomorphism
		Theorems based on Homomorphism
		Theorems based on Homomorphism
		Theorems based on Homomorphism
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Inner Automorphism
		Inner Automorphism
		Questions based on automorphism
		Cayleys Theorem
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Imbedding of Ring
		Imbedding of Ring
		Imbedding of Ring
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Units and Associates
		Euclidean Domain
		Euclidean Domain
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Polynomial rings
		Polynomial rings
		Polynomial rings
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	Unique Factorization Domain
		Unique Factorization Domain
SUNDAY - 19.11.2023		
17	November (20-24)	Unique Factorization Domain
25.11.2023 - Examinations		

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Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester) V

Name of the Paper:- FUNDAMENTALS OF DATABASE SYSTEM

Class: Bsc III

Name of the Teachers (Section Wise) : Deepthy Juneja

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	
		Basic Concepts – Data, Information
		Basic Concepts – Records and files
		Traditional file – based Systems
SUNDAY - 13.08.2023		
3	August (14-19)	
		Traditional file – based Systems
		File Based Approach
		File Based Approach
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	
		Limitations of File Based Approach
		Database Approach
		Characteristics of Database Approach
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	
		Database Management System (DBMS)
		Components of DBMS Environment
		DBMS Functions and Components
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	
		Advantages and Disadvantages of DBMS
		Advantages and Disadvantages of DBMS
		Actors on the Scene - Data and Database Administrator
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	
		Database Designers
		Database Designers
		Applications Developers and Users
SUNDAY - 17.09.2023		
8	September (18-22)	
		Database System Architecture – Three Levels of Architecture
		External, Conceptual and Internal Levels
		Schemas , Assignment - 1

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	
		Database Languages – VDL, DDL, SDL, DML, SQL Mappings and Instances
		Data Independence – Logical Data Independence, Physical Data Independence
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	
		Classification of Database Management System
		Sessional
		Centralized and Client Server architecture to DBMS
SUNDAY - 08.10.2023		
11	October (9-14)	
		Data Models: Records- based Data Models Object-based Data Models, Assignment 2
		Physical Data Models and Conceptual Modeling
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	
		Entity-Relationship Model – Entity Types Entity Sets, Attributes Relationship Types
		Relationship Instances and ER Diagrams
SUNDAY - 22.10.2023		
13	October (23, 25-27)	
		Relational Data Model:-Brief History
		Terminology in Relational Data Structure
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	
		Relations, Properties of Relations
		Keys, Domains, Integrity Constraints over Relations
		Base Tables and Views
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	
		Basic Concepts of Hierarchical and Network Data Model
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	Revision Revision
SUNDAY - 19.11.2023		
17	November (20-24)	
		Revision
		Revision
25.11.2023 - Examinations		

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Weekly Lesson Plan (Odd Semester)

UG (V Semester)

Name of the Paper:- Physical Chemistry and Inorganic Chemistry
 3rd Year

Class: B.Sc.

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

WEEK	DATE	TOPICS
1	August (5)	Hawan Ceremony
SUNDAY - 06.08.2023		
2	August (7-12)	Spectroscopy Introduction: Electromagnetic radiation, regions of spectrum, basic features of spectroscopy, statement of Born- oppenheimer approximation, Degrees of freedom.
SUNDAY - 13.08.2023		
3	August (14-19)	Rotational Spectrum Selection rules, Energy levels of rigid rotator (semi-classical principles), rotational spectra of diatomic molecules ,
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	spectral intensity distribution using population distribution (Maxwell-Boltzmann distribution), determination of bond length and isotopic effect .
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Vibrational spectrum Selection rules, Energy levels of simple harmonic oscillator, pure vibrational spectrum of diatomic molecules, determination of force constant and qualitative relation of force constant and bond energy, idea of vibrational frequencies of different functional groups.
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Raman Spectrum Concept of polarizability, pure rotational and pure vibrational Raman spectra of diatomic molecules, selection rules, Quantum theory of Raman spectra.
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Quantum Mechanics- I Black- body radiation, Plank' s radiation law, photoelectric effect, postulates of quantum mechanics, quantum mechanical operators, commutation relations, Hamiltonian operator, Hermitian operator,
SUNDAY - 17.09.2023		
8	September (18-22)	average value of square of Hermitian as a positive quantity, Role of operators in quantum mechanics, To show quantum mechanically that position and momentum cannot be predicated simultaneously

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	, Determination of wave function & energy of a particle in one dimensional box. Physical Properties and Molecular Structure Optical activity,
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	polarization – (Clausius – Mossotti equation- derivation excluded) . Orientation of dipoles in an electric field, dipole moment, induced dipole moment, measurement of dipole moment-temperature method and refractivity method
SUNDAY - 08.10.2023		
11	October (9-14)	dipole moment and structure of molecules, Magnetic permeability, magnetic susceptibility and its determination. Application of magnetic susceptibility, magnetic properties – paramagnetism, diamagnetism and ferromagnetism.
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Metal- Ligand Bonding in Transition Metal complexes Limitations of valence bond theory, an elementary idea of crystal field theory, crystal field splitting in octahedral, tetrahedral and square planer complexes,
SUNDAY - 22.10.2023		
13	October (23, 25-27)	factors affecting the crystal field parameters. Thermodynamics and Kinetic Aspects of metal complexes A brief outline of thermodynamic stability of metal complexes and factors affecting the stability,
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Irving William Series, substitution reactions of square planer complexes of Pt[II], Trans effect.
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Electronic spectra of Transition metal complexes Selection rules for d-d transition, spectroscopic ground states, spectrochemical series, Orgel energy level diagram for d1 and d9 states
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	, discussion of electronic spectrum of $[Ti(H_2O)_6]^{3+}$ complexion.
SUNDAY - 19.11.2023		
17	November (20-24)	REVISION
25.11.2023 - Examinations		

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Weekly Lesson Plan (Odd Semester)

UG (V Semester)

Name of the Paper:- Organic Chemistry and Inorganic Chemistry

Class: B.Sc. 3rd Year

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

WEEK	DATE	TOPICS
1	August (5)	Hawan Ceremony
SUNDAY - 06.08.2023		
2	August (7-12)	Carbohydrates Classification and nomenclature of Monosaccharides, mechanism of osazone formation, interconversion of glucose and fructose,
SUNDAY - 13.08.2023		
3	August (14-19)	chain lengthening and chain shortening of aldoses. Configuration of monosaccharides. Erythro and threo diastereomers.
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Conversion of glucose into mannose. Formation of glycosides,
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Determination of ring size of glucose and fructose. Open chain and cyclic structure of D(+)- glucose & D(-) fructose.
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Mechanism of mutarotation. Structures of ribose and deoxyribose.
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	An introduction to disaccharides (maltose, sucrose and lactose) and polysaccharides (starch and cellulose) without involving structure determination.
SUNDAY - 17.09.2023		
8	September (18-22)	Organometallic Compounds Organomagnesium compounds: the Grignard reagents- formation, structure and chemical reactions.

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Organozinc compounds: formation and chemical reactions. Organolithium compounds: formation and chemical reactions.
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	NMR Spectroscopy Principle of nuclear magnetic resonance, the PMR spectrum, number of signals, peak areas, equivalent and nonequivalent protons
SUNDAY - 08.10.2023		
11	October (9-14)	positions of signals and chemical shift, shielding and deshielding of protons,
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	proton counting, splitting of signals and coupling constants, magnetic equivalence of protons. Discussion of PMR spectra of the molecules: ethyl bromide, n-propyl bromide, isopropyl bromide, 1,1-dibromoethane, ethanol,
SUNDAY - 22.10.2023		
13	October (23, 25-27)	acetaldehyde, ethyl acetate, toluene, benzaldehyde and acetophenone. Simple problems on PMR spectroscopy for structure determination of organic compounds.
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY - 29.10.2023		
14	October (30-31) November (2-4)	Magnetic properties of Transition metal complexes Types of magnetic materials, magnetic susceptibility, method of determining magnetic susceptibility,
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	spin only formula, L-S coupling, correlation of μ_s and μ_{eff} values, orbital contribution to magnetic moments,
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	, application of magnetic moment data for 3d metal complexes.
SUNDAY - 19.11.2023		
17	November (20-24)	Revision
25.11.2023 - Examinations		

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Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester)

Name of the Paper:- Nuclear Physics

Class: B.Sc.-III

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

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	Unit I: Nuclear Structure and Properties of Nuclei : Nuclear composition (p-e and p-n hypotheses), Nuclear properties; Nuclear size, spin
		Nuclear properties; parity, statistics, magnetic dipole moment
		quadruple moment (shape concept)
SUNDAY - 13.08.2023		
3	August (14-19)	Determination of mass by Bain-Bridge, Bain-Bridge and Jordan mass spectrograph
		Determination of charge by Mosley Law
		Determination of size of nuclei by Rutherford Back Scattering
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	mass and binding energy
		systematic of nuclear binding energy, nuclear stability
		Numerical Problems
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Unit II: Nuclear Radiation decay Processes
		Alpha-disintegration and its theory. Energetics of alpha-decay,
		Origin of continuous beta.spectrum (neutrino hypothesis)
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	types of beta-decay and energetics of beta-decay
		Nature of gamma rays, Energetics of gamma rays
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Conditional Test
		Numerical Problems
		Radiation interaction :- Interaction of heavy charged particles (Alpha particles); Energy loss of heavy charged particle (idea of Bethe formula, no derivation)
SUNDAY - 17.09.2023		
8	September (18-22)	Range and straggling of alpha particles
		Geiger-Nuttal law. Interaction of light charged particle (Beta-particle),
		Energy loss of beta-particles (ionization), Range of electrons, absorption of beta-particles

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Compton and pair production effect) electron-positron annihilation
		Absorption of Gamma rays (Mass attenuation coefficient) and its application.
		Unit III: Nuclear Accelerators :- Linear accelerator, Tandem accelerator,
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	
		Cyclotron and Betatron accelerators.
		Nuclear Radiation Detectors :- Gas filled counters; Ionization chamber
SUNDAY - 08.10.2023		
11	October (9-14)	proportional counter, G.M. Counter (detailed study)
		Scintillation counter and semiconductor detector
		Numerical Problems
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Unit IV: Nuclear reactions
		Nuclear reactions, Elastic scattering
		Inelastic scattering, Nuclear disintegration
		Photonuclear reaction, Radiative capture, Direct reaction
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Heavy ion reactions and spallation Reactions.
		Conservation laws, Q-value and reaction threshold
		Nuclear Reactors:- Nuclear Reactors, General aspects of Reactor Design
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Nuclear fission and fusion reactors
		General aspects of Reactor Design
		Numerical Problems
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Numerical Problems
		Class Test
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	Revision
SUNDAY - 19.11.2023		
17	November (20-24)	Revision
		Revision
25.11.2023 - Examinations		

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester) V

Name of the Paper:- Web Designing

Class: Bsc III

Name of the Teachers (Section Wise) : Deepty Juneja

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	Introduction to Internet and World Wide Web; Evolution and History of World Wide Web Basic Features; Web Browsers; Web Servers
SUNDAY - 13.08.2023		
3	August (14-19)	Searching and Web-Casting Techniques; Search Engines and Search Tools, Hypertext Transfer Protocol; URLs
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Steps for Developing Website; Choosing the Contents Home Page; Domain Names
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Internet Service Provider; Planning and Designing Web Site Creating a Website; Web Publishing; Hosting Site;
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Introduction to HTML; Hypertext and HTML Assignment I
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	HTML Document Features;HTML Tags; Header, Title, Body, Paragraph, Ordered/Unordered Line, Creating Links;
SUNDAY - 17.09.2023		
8	September (18-22)	Headers; Text Styles; Text Structuring; Text Colors and Background; Formatting Text;

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Class Test
		Page layouts; Insertion of Text, Movement of Text
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Images: Types of Images, Insertion of Image
		Movement of Image, Ordered and Unordered lists;
SUNDAY - 08.10.2023		
11	October (9-14)	Inserting Graphics
		Table Handling Functions like Columns, Rows,
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Width, Colours; Frame Creation and Layouts;
		Frame Creation and Layouts;
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Conditional Test
		Working with Forms and Menus;
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Working with Buttons like Radio,
		Check Box;
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Revision
		Revision
		Revision
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	
SUNDAY - 19.11.2023		
17	November (20-24)	Revision
		Revision
		Revision
25.11.2023 - Examinations		