

**I.B. (PG) COLLEGE, PANIPAT**  
**SESSION 2020-2021**

Weekly Lesson Plan (Odd Semester)

(3rd Semester)

Name of the Paper:- WAVE OPTICS

CLASS : B.Sc II

Name of the Teacher : Ms. DEEPA SAINI

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	UNIT-I (INTERFERENCE-I )BASICS OF OPTICS , INTRODUCTION TO INTERFERENCE OF LIGHT BY DIVISION OF WAVEFRONT, TYPES OF INTERFERENCE
		EXPERIMENT DEMONSTRATION OF INTERFERENCE -YOUNG's DOUBLE SLIT EXPERIMENT
<b>SUNDAY - 08.11.2020</b>		
2	November (9-13)	COHERENT SOURCES,CONDITION FOR GOOD INTERFERENCE FRINGES , PHASE DIFFERENCE AND PATH DIFFERENCE
		ANALYTICAL TREATMENT OF INTERFERENCE,ENERGY DISTRIBUTION CURVE , EXPRESSION FOR FRINGE WIDTH
<b>HOLIDAY - 14.11.2020 (Diwali)</b>		
<b>SUNDAY - 15.11.2020</b>		
3	November (16-21)	FRESNEL'S BIPRISM AND DETERMINATION OF WAVELENGTH,FRINGES WITH WHITE LIGHT USING BIPRISM
		LOCATION OF CENTRAL FRINGE,NUMERICALS
<b>SUNDAY - 22.11.2020</b>		
4	November (23-28)	DETERMINATION OF THICKNESS OF THIN SHEET OF TRANSARENT MATERIAL
		LLOYD's MIRROR , DIFFERENCE BETWEEN Bi-PRISM AND LLYOD MIRROR FRINGES,NUMERICALS
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
5	December (1-5)	PHASE CHANGE ON REFLECTION (STOKE's LAW) , NUMERICALS
		DISCUSSION OF PROBLEMS BASED ON UNIT-I
		UNIT-II INTERFERENCE BY A PLANE PARALLEL FILM ILLUMINATED BY A PLANE WAVE
<b>SUNDAY - 06.12.2020</b>		

6	December (07-12)	INTERFERENCE OF LIGHT IN THIN FILM(REFLECTED LIGHT)
		INTERFERENCE OF LIGHT IN THIN FILM(TRANSMITTED LIGHT)
		INTENSITY OF MAXIMA AND MINIMA IN REFLECTED AND TRANSMITTED BEAMS IN THIN FILMS,NUMERICALS
<b>SUNDAY - 13.12.2020</b>		
7	December (14-19)	PRODUCTIONS OF COLOURS IN THIN FILMS , INTERFERENCE BY A PLANE PARALLEL FILM WHEN ILLUMINATED BY A POINT SOURCE
		NECESSITY OF AN EXTENDED SOURCE , CLASSIFICATION OF FRINGES IN THIN FILMS
<b>SUNDAY - 20.12.2020</b>		
8	December (21-24) (26)	INTERFERENCE BY A WEDGE-SHAPED FILM ILLUMINATED BY A PLANE WAVE
		NEWTON'S RINGS (THEORY , WORKING AND DERIVATION),ASSIGNMENT GIVEN
		NEWTON'S RINGS BY TRANSMITTED LIGHT , DETERMINATION OF WAVELENGTH , REFRACTIVE INDEX OF A LIQUID BY NEWTON'S RINGS , NEWTON'S RINGS WITH WHITE LIGHT
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
9	December (28-31) January (1-2)	NEWTON'S RINGS WITH A BRIGHT CENTRE IN REFLECTED LIGHT , NEWTON'S RINGS WITH PLANE MIRROR INSTEAD OF GLASS PLATE
		MICHELSON INTERFEROMETER
		FORM OF FRINGES , DETERMINATION OF WAVELENGTH OF MONOCHROMATIC LIGHT , STANDARDISATION OF METRE ,NUMERICALS
<b>SUNDAY - 03.01.2021</b>		
10	January (4-9)	CONDITIONAL TEST ,UNIT-III (DIFFRACTION-I) HUYGENS-FRESNEL THEORYFRESNEL'S ASSUMPTIONS , RECTILINEAR PROPAGATION OF LIGHT
		FRESNEL'S HALF PERIOD ZONE
<b>SUNDAY - 10.01.2021</b>		
11	January (11-16)	ZONE PLATE ZONE PLATE, DIFFRACTION AT A STRAIGHT EDGE
		DIFFRACTION AT A RECTANGULAR SLIT
		DIFFRACTION AT A CIRCULAR APERTURE
<b>SUNDAY - 17.01.2021</b>		

12	January (18-19) (21-23)	DIFFRACTION DUE TO A NARROW SLIT AND DIFFRACTION DUE TO A NARROW WIRE
		NUMERICAL, REVISION OF UNIT (iii)
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
13	January (25) (27-30)	UNIT IV (DIFFRACTION-II) FRAUNHOFER DIFFRACTION : ONE SLIT DIFFRACTION , ASSIGNMENT-II
		ANALYTICAL TREATMENT OF INTENSITY DISTRIBUTION IN DIFFRACTION DUE TO SINGLE SLIT
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 07.02.2021</b>		
14	February (01-06)	FRAUNHOFER DIFFRACTION AT A DOUBLE SLIT
		FRAUNHOFER DIFFRACTION AT A 'N' SLIT (THEORY OF PLANE DIFFRACTION GRATING)
		REVISION
<b>SUNDAY - 07.02.2021</b>		
15	February (08-13)	DISPERSIVE POWER OF GRATING ,LIMIT OF RESOLUTION , RAYLEIGH'S CRITERION
		RESOLVING POWER OF TELESCOPE ,RESOLVING POWER OF GRATING
		DIFFERENCE BETWEEN PRISM AND GRATING SPECTRA, NUMERICALS
<b>SUNDAY - 14.02.2021</b>		
16	February (15 - 20)	REVISION
		REVISION
		REVISION

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

( 3rd Semester)

Name of the Paper:- Computer Programming & Thermodynamics

CLASS : B.Sc II

Name of the Teacher : Ms.SONIA

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	Thermodynamic-1 : Thermodynamic system and Zeroth law of thermodynamics.
		First law of thermodynamics and its limitations
		Reversible and irreversible process.
<b>SUNDAY - 08.11.2020</b>		
2	November (9-13)	Second law of thermodynamics significance, Carnot theorem
		Absolute scale of temperature, Absolute Zero and magnitude of each division on work scale and perfect gas scale
		Joule's free expansion, , Joule Thomson effect, Joule-Thomson (Porous plug) experiment, conclusions and explanation
		Analytical treatment of Joule Thomson effect. Entropy, calculations of entropy of reversible and irreversible process
<b>HOLIDAY - 14.11.2020 (Diwali)</b>		
<b>SUNDAY - 15.11.2020</b>		
3	November (16-21)	T-S diagram, entropy of a perfect gas, Nernst heat law(third law of thermodynamics), Liquefaction of gases, (oxygen, air, hydrogen and helium)
		Solidification of He below 4K, Cooling by adiabatic demagnetization, NUMERICALS
		Derivation of Clausius-Clapeyron and Clausius latent heat equation and their significance
<b>SUNDAY - 22.11.2020</b>		
4	November (23-28)	Specific heat of saturated vapours, phase diagram and triple point of a substance
		Development of Maxwell thermodynamical relations, Thermodynamical functions:
		Internal energy (U)
		Helmholtz function (F), Enthalpy (H), Gibbs function (G)
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
5	December (1-5)	Relations between Thermodynamical functions
		Derivation of Maxwell thermodynamical relations from thermodynamical functions
		Application of Maxwell relations: relations between two specific heats of gas
<b>SUNDAY - 06.12.2020</b>		

6	December (07-12)	Derivation of Clausius-Clapeyron and Clausius equation
		Variation of intrinsic energy with volume for (i) perfect gas
		Variation of intrinsic energy with volume for (ii) Vanderwall gas
<b>SUNDAY - 13.12.2020</b>		
7	December (14-19)	Variation of intrinsic energy with volume for (iii) solids and liquids
		Derivation of Stefans law
		Adiabatic compression and expention of gas
<b>SUNDAY - 20.12.2020</b>		
8	December (21-24) (26)	deduction of theory of Joule Thomson effect.
		Numericals, Rivision
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
9	December (28-31) January (1-2)	<b>Computer Programming</b> : Computer organization,
		Binary representation, Algorithm development
		Flow charts and their interpretation.
<b>SUNDAY - 03.01.2021</b>		
10	January (4-9)	FORTRAN Preliminaries: Integer and floating point arithmetic expression
		built in functions, executable and non-executable statements
		input and output statements
<b>SUNDAY - 10.01.2021</b>		
11	January (11-16)	Formats, IF statement
		DO statement and GO TO statement
		Conditional Test
<b>SUNDAY - 17.01.2021</b>		
12	January (18-19) (21-23)	Dimension arrays, Statement function
		function subprogram. <b>Application of Fortran Programming:</b> Flow Chart and Programming for Print out of Natural numbers
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		

13	January (25) (27-30)	Range of the set of given numbers
		Ascending and descending order
		Mean and standard deviation,
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		
14	February (01-06)	Least square fitting of curve,
		Roots of quadratic equation
		Product of two matrices,
<b>SUNDAY - 07.02.2021</b>		
15	February (08-13)	Numerical integration by Simpson 1/3 rule
		Numerical integration by Trapezoidal rule
		REVISION
<b>SUNDAY - 14.02.2021</b>		
16	February (15 - 20)	REVISION
		REVISION
		REVISION

**I.B. (PG) COLLEGE, PANIPAT****SESSION 2020-2021****Weekly Lesson Plan (Odd Semester)****(3rd Semester)****Name of the Paper:-** Phy., Inorg., & Org. Chemistry**CLASS :** B.Sc II**Name of the Teacher :** Dr. Mohammad Isaq

WEEK	DATE	TOPICS
1	November (2-3), (5-7)	<b>Physical Chemistry</b> Definition of thermodynamic terms: system, surrounding etc. Types of systems, intensive and extensive properties. State and path functions and their differentials. Thermodynamic process. Thermodynamic equilibrium, Concept of heat and work.
<b>SUNDAY - 08.11.2020</b>		
2	November (9-13)	First law of thermodynamics: statement, concepts of internal energy and enthalpy. Heat capacity, heat capacities at constant volume and pressure and their relationship. Joule– Thomson coefficient for ideal gas and real gas and inversion temperature.
<b>HOLIDAY - 14.11.2020 (Diwali)</b>		
<b>SUNDAY - 15.11.2020</b>		
3	November (16-21)	Calculation of w, q, d U & d H for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process.
<b>SUNDAY - 22.11.2020</b>		
4	November (23-28)	Equilibrium constant and free energy, concept of chemical potential, Thermodynamic derivation of law of chemical equilibrium. Temperature dependence of equilibrium constant. Clausius– Clapeyron equation and its applications.
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
5	December (1-5)	Nernst distribution law – its thermodynamic derivation, Applications of distribution law: ( i ) Determination of degree of hydrolysis and hydrolysis constant of aniline hydrochloride ( i i ) Determination of equilibrium constant of potassium tri - iodide complex and ( i i i ) Process of extraction. More stress on numerical problems.
<b>SUNDAY - 06.12.2020</b>		
6	December (07-12)	<b>Inorganic Chemistry</b> Definition of transition elements, position in the periodic table, General characteristic properties of d-Block elements, Comparison of properties of 3d elements with 4d and 5d elements with reference only to ionic radii, oxidation state, magnetic and spectral properties and stereo chemistry.
<b>SUNDAY - 13.12.2020</b>		

7	December (14-19)	Stability of various oxidation states and e.m.f (Latimer and Frost diagrams), Structure and properties of some compounds of transition elements- TiO <sub>2</sub> , VOCl <sub>2</sub> , FeCl <sub>3</sub> , CuCl <sub>2</sub> and Ni(CO) <sub>4</sub> .
<b>SUNDAY - 20.12.2020</b>		
8	December (21-24) (26)	Werner's theory of coordination compounds, effective atomic number, chelates, nomenclature of coordination compounds, Isomerism in coordination compounds, valence bond theory of transition metal complexes.
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
9	December (28-31) January (1-2)	Physical properties of solvents, types of solvents and their general characteristics, reactions in non aqueous solvents with reference to liquid NH <sub>3</sub> and liquid SO <sub>2</sub> .
<b>SUNDAY - 03.01.2021</b>		
10	January (4-9)	<b>Organic Chemistry</b> Monohydric alcohols □ nomenclature, methods of formation by reduction of aldehydes, ketones, carboxylic acids and esters. Hydrogen bonding. Acidic nature. Reactions of alcohols. Dihydric alcohols — nomenclature, methods of formation, chemical reactions of vicinal glycols, oxidative cleavage [ Pb( OAc ) <sub>4</sub> and HIO <sub>4</sub> ] and pinacol- pinacolone rearrangement
<b>SUNDAY - 10.01.2021</b>		
11	January (11-16)	Nomenclature, structure and bonding. Preparation of phenols, physical properties and acidic character. Comparative acidic strengths of alcohols and phenols, resonance stabilization of phenoxide ion. Reactions of phenols — electrophilic aromatic substitution, Mechanisms of Fries rearrangement, Claisen rearrangement, Reimer- Tiemann reaction, Kolbe' s reaction and Schotten and Baumann reactions.
<b>SUNDAY - 17.01.2021</b>		
12	January (18-19) (21-23)	Synthesis of epoxides. Acid and base- catalyzed ring opening of epoxides, orientation of epoxide ring opening, reactions of Grignard and organolithium reagents with epoxides.
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		

13	January (25) (27-30)	Absorption laws ( Beer- Lambert law), molar absorptivity, presentation and analysis of UV spectra, types of electronic transitions, effect of conjugation. Concept of chromophore and auxochrome. Bathochromic, hypsochromic, hyperchromic and hypochromic shifts.
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		
14	February (01-06)	UV spectra of conjugated dienes and enones, Woodward-Fieser rules, calculation of $\lambda_{max}$ of simple conjugated dienes and $\alpha, \beta$ - unsaturated ketones. Applications of UV Spectroscopy in structure elucidation of simple organic compounds.
<b>SUNDAY - 07.02.2021</b>		
15	February (08-13)	Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength. Preparation of carboxylic acids. Reactions of carboxylic acids. Hell- Volhard- Zelinsky reaction. Reduction of carboxylic acids. Mechanism of decarboxylation.
<b>SUNDAY - 14.02.2021</b>		
16	February (15 - 20)	Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis ( acidic and basic).

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

(3rd Semester)

Name of the Paper:- Ist

CLASS : B.Sc II (Zoology)

Name of the Teacher : Prof. PAWAN KUMAR

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	Introduction to Biochemistry
		Introduction to Biochemistry
		Introduction to Biochemistry
<b>SUNDAY - 08.11.2020</b>		
2	November (9-13)	Proteins
		Proteins
<b>HOLIDAY - 14.11.2020 (Diwali)</b>		
<b>SUNDAY - 15.11.2020</b>		
3	November (16-21)	Proteins
		Proteins
		Proteins
<b>SUNDAY - 22.11.2020</b>		
4	November (23-28)	Proteins
		Proteins
		Proteins
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
5	December (1-5)	Proteins
		Carbohydrates
		Carbohydrates
<b>SUNDAY - 06.12.2020</b>		

6	December (07-12)	Carbohydrates
		Carbohydrates
		Carbohydrates
<b>SUNDAY - 13.12.2020</b>		
7	December (14-19)	Carbohydrates
		Carbohydrates
		Carbohydrates
<b>SUNDAY - 20.12.2020</b>		
8	December (21-24) (26)	Lipids
		Lipids
		Lipids
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
9	December (28-31) January (1-2)	Lipids
		Lipids
		Lipids
<b>SUNDAY - 03.01.2021</b>		
10	January (4-9)	Enzymes
		Enzymes
		Transport through Biomembrane
<b>SUNDAY - 10.01.2021</b>		
11	January (11-16)	Transport through Biomembrane
		Transport through Biomembrane
		Nutrition
<b>SUNDAY - 17.01.2021</b>		

12	January (18-19) (21-23)	Nutrition
		Nutrition
		Nutrition
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
13	January (25) (27-30)	Nutrition
		Test
		Muscles
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		
14	February (01-06)	Muscles
		Muscles
		Muscles
<b>SUNDAY - 07.02.2021</b>		
15	February (08-13)	Muscles
		Test
		Bones
<b>SUNDAY - 14.02.2021</b>		
16	February (15 - 20)	Bones
		Bones
		Revision

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

(3rd Semester)

Name of the Paper:- Life and Diversity of chordates - 1 CLASS : B.Sc II (Zoology)

Name of the Teacher : Ms. MONIKA

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	
		Origin of chordates
		Evolutionary tree of chordates
		Systematic position of protochordates
SUNDAY - 08.11.2020		
2	November (9-13)	
		Morphology of protochordates
		Herdmania - type study
		Herdmania - type study
HOLIDAY - 14.11.2020 (Diwali)		
SUNDAY - 15.11.2020		
3	November (16-21)	
		Herdmania - type study
		Herdmania - type study
		Herdmania - type study
SUNDAY - 22.11.2020		
4	November (23-28)	
		Amphioxus - type study
		Amphioxus - type study
		Amphioxus - type study
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
5	December (1-5)	
		Amphioxus - type study
		Amphioxus - type study
		Amphioxus - type study
SUNDAY - 06.12.2020		

6	December (07-12)	
		Amphioxus - type study
		Amphioxus - type study
		Amphioxus - type study
<b>SUNDAY - 13.12.2020</b>		
7	December (14-19)	
		Petromyzon - type study
		Petromyzon - type study
		Petromyzon - type study
<b>SUNDAY - 20.12.2020</b>		
8	December (21-24) (26)	
		Petromyzon - type study
		Petromyzon - type study
		Petromyzon - type study
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
9	December (28-31) January (1-2)	
		Petromyzon - type study
		Petromyzon - type study
		Petromyzon - type study
<b>SUNDAY - 03.01.2021</b>		
10	January (4-9)	
		Petromyzon - type study
		Petromyzon - type study
		Petromyzon - type study
<b>SUNDAY - 10.01.2021</b>		
11	January (11-16)	
		Scales and fins in fishes
		Parental care in fishes
		Parental care in fishes
<b>SUNDAY - 17.01.2021</b>		

12	January (18-19) (21-23)	
		Fish migration
		Fish migration
Fish migration		
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)		
SUNDAY - 24.01.2021		
13	January (25) (27-30)	
		Type study of Labeo
		Type study of Labeo
Type study of Labeo		
HOLIDAY - 26.01.2021 (Republic Day)		
SUNDAY - 31.01.2021		
14	February (01-06)	
		Type study of Labeo
		Type study of Labeo
Type study of Labeo		
SUNDAY - 07.02.2021		
15	February (08-13)	
		Type study of Labeo
		Type study of Labeo
Type study of Labeo		
SUNDAY - 14.02.2021		
16	February (15 - 20)	
		Type study of Labeo
		Type study of Labeo
Type study of Labeo		

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

(3rd Semester)

Name of the Paper:- Biology and Diversity of Seed

CLASS : B.Sc II

Name of the Teacher : Dr. Nidhan Singh

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	General characters and diversity of Gymnosperms
		General characters and diversity of Gymnosperms
		Pilger and Melchior's (1954) system of Classification
SUNDAY - 08.11.2020		
2	November (9-13)	Geological Time Table
		Geological Time Table
		Evolution of Seed Habit
HOLIDAY - 14.11.2020 (Diwali)		
SUNDAY - 15.11.2020		
3	November (16-21)	Evolution of Seed Habit
		Fossils and Fossilization
		Fossils and Fossilization
SUNDAY - 22.11.2020		
4	November (23-28)	Reconstruction of <i>Lyginopteris</i>
		Test
		Reconstruction of <i>Lyginopteris</i>
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
5	December (1-5)	Reconstruction of <i>Williamsonia</i>
		Reconstruction of <i>Williamsonia</i>
		Morphology and anatomy of root of <i>Cycas</i>
SUNDAY - 06.12.2020		
6	December (07-12)	Life cycle of <i>Cycas</i>
		Morphology and anatomy of stem leaf/leaflet of <i>Cycas</i>
		Morphology and anatomy of stem leaf/leaflet of <i>Cycas</i>
SUNDAY - 13.12.2020		
7	December (14-19)	Mode of Reproduction in <i>Cycas</i>
		Mode of Reproduction in <i>Cycas</i>
		Economic importance of <i>Cycas</i>
SUNDAY - 20.12.2020		
8	December (21-24) (26)	Morphology and anatomy of root of <i>Pinus</i>
		Morphology and anatomy of root of <i>Pinus</i>
		Morphology and anatomy of stem leaf/leaflet of <i>Pinus</i>
HOLIDAY - 25.12.2020 (Christmas)		
SUNDAY - 27.12.2020		

9	December (28-31)	Morphology and anatomy of stem leaf/leaflet of <i>Pinus</i>
	January (1-2)	Mode of Reproduction in <i>Pinus</i>
		Mode of Reproduction in <i>Pinus</i>
<b>SUNDAY - 03.01.2021</b>		
10	January (4-9)	Economic importance of <i>Pinus</i>
		Economic importance of <i>Pinus</i>
		Test
<b>SUNDAY - 10.01.2021</b>		
11	January (11-16)	Morphology and anatomy of stem leaf/leaflet of <i>Ephedra</i>
		Morphology and anatomy of stem leaf/leaflet of <i>Ephedra</i>
		Morphology and anatomy of root of <i>Ephedra</i>
<b>SUNDAY - 17.01.2021</b>		
12	January (18-19) (21-23)	Morphology and anatomy of root <i>Ephedra</i>
		Revision
		Mode of Reproduction in <i>Ephedra</i>
<b>SUNDAY - 24.01.2021</b>		
13	January (25) (27-30)	Mode of Reproduction in <i>Ephedra</i>
		Revision
		Economic importance of <i>Ephedra</i>
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		
14	February (01-06)	Economic importance of <i>Ephedra</i>
		Test
		General characters of Primitive Angiosperms
<b>SUNDAY - 07.02.2021</b>		
15	February (08-13)	General characters of Primitive Angiosperms
		General characters of Primitive Angiosperms
		Revision
<b>SUNDAY - 14.02.2021</b>		
16	February (15 - 20)	Revision
		Test
		Test

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

(3rd Semester)

Name of the Paper:- Plant Anatomy

CLASS : B.Sc II

Name of the Teacher : Ms. RAJNI

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	
		Diversity in plant forms
		Continued
		Tissues meristematic and permanent
<b>SUNDAY - 08.11.2020</b>		
2	November (9-13)	
		Tissues meristematic and permanent Continued
		Tissues meristematic and permanent Continued
<b>HOLIDAY - 14.11.2020 (Diwali)</b>		
<b>SUNDAY - 15.11.2020</b>		
3	November (16-21)	
		The shoot system
		Continued
		Structure of dicot stem
<b>SUNDAY - 22.11.2020</b>		
4	November (23-28)	
		Structure of monocot stem
		Cambium Structure and functions
		Cambium Structure and functions
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
5	December (1-5)	
		Secondary growth in dicot stem
		Continued
		Continued
<b>SUNDAY - 06.12.2020</b>		

6	December (07-12)	
		Periderm
		Continued
Anomalous Secondary growth in <i>Dracaena</i>		
<b>SUNDAY - 13.12.2020</b>		
7	December (14-19)	
		Anomalous Secondary growth in <i>Boerhaavia</i>
		Anomalous Secondary growth in <i>Achyranthes</i>
Phyllotaxy		
<b>SUNDAY - 20.12.2020</b>		
8	December (21-24) (26)	
		Leaf types simple and compound
		Leaf types simple and compound
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
9	December (28-31) January (1-2)	
		Epidermis and Epidermal appendages
		Continued
Stomata and their morphological types		
<b>SUNDAY - 03.01.2021</b>		
10	January (4-9)	
		Assignment
		Anatomy of dicot and monocot leaf
Anatomy of dicot and monocot leaf continued		
<b>SUNDAY - 10.01.2021</b>		
11	January (11-16)	
		Leaf abscission
		Root system
Root api-cal meristem and theories		
<b>SUNDAY - 17.01.2021</b>		

12	January (18-19) (21-23)	
		Root apical meristem and theories
		Structure of dicot Root
Structure of monocot Root		
HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)		
SUNDAY - 24.01.2021		
13	January (25) (27-30)	
		Secondary growth in dicot Root
		Secondary growth in dicot Root
Secondary growth in dicot Root		
HOLIDAY - 26.01.2021 (Republic Day)		
SUNDAY - 31.01.2021		
14	February (01-06)	
		Revision Test
		Structural modification in storage root
SUNDAY - 07.02.2021		
15	February (08-13)	
		Structural modification in Respiratory root
		Structural modification in Respiratory root
Structural modification in Epiphytic root		
SUNDAY - 14.02.2021		
16	February (15 - 20)	
		Revision Test
		Revision
Revision		

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

(3rd Semester)

Name of the Paper:- IMMUNOLOGY

CLASS : B.Sc II (Biotechnology)

Name of the Teacher : Ms. MONIKA

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	Introduction of immune system
		History of immune system
<b>SUNDAY - 08.11.2020</b>		
2	November (9-13)	Scope of immune system
		Innate and adaptive immunity
		Innate and adaptive immunity
<b>HOLIDAY - 14.11.2020 (Diwali)</b>		
<b>SUNDAY - 15.11.2020</b>		
3	November (16-21)	Innate and adaptive immunity
		Cells of immune system
		Cells of immune system
<b>SUNDAY - 22.11.2020</b>		
4	November (23-28)	Organs of immune system
		Organs of immune system
		Organs of immune system
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
5	December (1-5)	Antigens
		Antigens
		Factors affecting antigenicity
<b>SUNDAY - 06.12.2020</b>		

6	December (07-12)	Factors affecting antigenicity
		Antibodies
		Antibodies
<b>SUNDAY - 13.12.2020</b>		
7	December (14-19)	Primary and secondary immune response
		Primary and secondary immune response
		Primary and secondary immune response
<b>SUNDAY - 20.12.2020</b>		
8	December (21-24) (26)	Cell mediated immunity
		Cell mediated immunity
		Complement system
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
9	December (28-31) January (1-2)	Complement system
		Major Histocompatibility complex
		Major Histocompatibility complex
<b>SUNDAY - 03.01.2021</b>		
10	January (4-9)	Hypersensitivity
		Hypersensitivity
		Hypersensitivity
<b>SUNDAY - 10.01.2021</b>		
11	January (11-16)	Allergic reactions
		Allergic reactions
		Allergic reactions
<b>SUNDAY - 17.01.2021</b>		

12	January (18-19) (21-23)	RIA
		ELISA
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
13	January (25) (27-30)	Autoimmunity
		Autoimmunity
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		
14	February (01-06)	Immunological tolerance
		Immunological tolerance
		Immunological tolerance
<b>SUNDAY - 07.02.2021</b>		
15	February (08-13)	Hapten
		Hapten
		Hapten
<b>SUNDAY - 14.02.2021</b>		
16	February (15 - 20)	Antigen and immunogen
		Antigen and immunogen
		Antigen and immunogen

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

(3rd Semester)

Name of the Paper:- Molecular biology ( paper -1st) CLASS : B.Sc II (Biotechnology)

Name of the Teacher : Ms. POOJA JAIN

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	
		Introduction to molecular aspects of life.
		Introduction to molecular aspects of life.
<b>SUNDAY - 08.11.2020</b>		
2	November (9-13)	
		DNA as a genetic material
		DNA as a genetic material
		RNA as a genetic material
<b>HOLIDAY - 14.11.2020 (Diwali)</b>		
<b>SUNDAY - 15.11.2020</b>		
3	November (16-21)	
		Watson and Crick model
		Types of RNA
		configuration of DNA
<b>SUNDAY - 22.11.2020</b>		
4	November (23-28)	
		structure and functions of RNA
		Replication in DNA
		Replication in DNA
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
5	December (1-5)	
		Mutations
		Mutations
		DNA damage
<b>SUNDAY - 06.12.2020</b>		

6	December (07-12)	
		DNA repair
		chromosomal structure
SUNDAY - 13.12.2020		
7	December (14-19)	
		Genetic model
		Chromosomal abberations
		Extracellular organelles
SUNDAY - 20.12.2020		
8	December (21-24) (26)	
		Extracellular organelles
		basics of transcription
HOLIDAY - 25.12.2020 (Christmas)		
SUNDAY - 27.12.2020		
9	December (28-31) January (1-2)	
		transcription
		transposable elements
SUNDAY - 03.01.2021		
10	January (4-9)	
		translation
		translation
		insertional sequence
SUNDAY - 10.01.2021		
11	January (11-16)	
		molecular mechanism of Gene expressions
		molecular mechanism of Gene expressions
		molecular mechanism of Gene expressions
SUNDAY - 17.01.2021		

12	January (18-19) (21-23)	
		Recombination
		homologous Recombination
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
13	January (25) (27-30)	
		Revision test
		Transcript attenuation
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		
14	February (01-06)	
		reproduction in bacteria
		revision
<b>SUNDAY - 07.02.2021</b>		
15	February (08-13)	
		Organization of genome
		Organization of genome
<b>SUNDAY - 14.02.2021</b>		
16	February (15 - 20)	
		Revision
		Revision

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

(3rd Semester)

Name of the Paper:- Advanced Calculus

CLASS : B.Sc II

Name of the Teacher : Dr. ARPANA GARG

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	Introduction
		Continuous Function
		Continuous Function
		Continuous Function
		Continuous Function
<b>SUNDAY - 08.11.2020</b>		
2	November (9-13)	Continuous Function
		Continuous Function
		Continuous Function
		Continuous Function
		Uniform Continuity
<b>HOLIDAY - 14.11.2020 (Diwali)</b>		
<b>SUNDAY - 15.11.2020</b>		
3	November (16-21)	Uniform Continuity
		Uniform Continuity
		The Derivatives and M.V.T.S
		The Derivatives and M.V.T.S
		The Derivatives and M.V.T.S
		The Derivatives and M.V.T.S
<b>SUNDAY - 22.11.2020</b>		
4	November (23-28)	Cauchys M.V.T.
		Cauchys M.V.T.
		Cauchys M.V.T.
		Cauchys M.V.T.
		Indeterminate form
		Indeterminate form
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
5	December (1-5)	Indeterminate form
		Indeterminate form
		Indeterminate form
		Indeterminate form
		Indeterminate form
<b>SUNDAY - 06.12.2020</b>		

6	December (07-12)	Indeterminate form
		Limit,Continuity of function of Two varuables
		Limit,Continuity of function of Two varuables
		Limit,Continuity of function of Two varuables
		Limit,Continuity of function of Two varuables
		Limit,Continuity of function of Two varuables
<b>SUNDAY - 13.12.2020</b>		
7	December (14-19)	Limit,Continuity of function of Two varuables
		Limit,Continuity of function of Two varuables
		Partial Differentiation
		Partial Differentiation
		Partial Differentiation
		Partial Differentiation
<b>SUNDAY - 20.12.2020</b>		
8	December (21-24) (26)	Partial Differentiation
		Partial Differentiation
		Partial Differentiation
		Partial Differentiation
		Partial Differentiation
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
9	December (28-31) January (1-2)	Total Derivatve
		Total Derivatve
		Total Derivatve
		Total Derivatve
		Total Derivatve
		Differentiation of Funtion of Two variable
<b>SUNDAY - 03.01.2021</b>		
10	January (4-9)	Differentiation of Funtion of Two variable
		Differentiation of Funtion of Two variable
		Differentiation of Funtion of Two variable
		Differentiation of Funtion of Two variable
		Differentiation of Funtion of Two variable
		Differentiation of Funtion of Two variable
<b>SUNDAY - 10.01.2021</b>		
11	January (11-16)	Differentiation of Funtion of Two variable
		Differentiation of Funtion of Two variable
		Differentiation of Funtion of Two variable
		Maxima and Minima of Functions
		Maxima and Minima of Functions
		Maxima and Minima of Functions
<b>SUNDAY - 17.01.2021</b>		

12	January (18-19) (21-23)	Maxima and Minima of Functions
		Maxima and Minima of Functions
		Maxima and Minima of Functions
		Maxima and Minima of Functions
		Curves in space
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
13	January (25) (27-30)	Curves in space
		Curves in space
		Curves in space
		Curves in space
		Curves in space
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		
14	February (01-06)	Curves in space
		Curves in space
		Curves in space
		Circle of Curvature and Spherical Curvatures
		Circle of Curvature and Spherical Curvatures
		Circle of Curvature and Spherical Curvatures
<b>SUNDAY - 07.02.2021</b>		
15	February (08-13)	Circle of Curvature and Spherical Curvatures
		Involutes and Evolutes
		Involutes and Evolutes
		Involutes and Evolutes
		Involutes and Evolutes
		Involutes and Evolutes
<b>SUNDAY - 14.02.2021</b>		
16	February (15 - 20)	Concept of a Surface and Envelops
		Concept of a Surface and Envelops
		Concept of a Surface and Envelops
		Revision
		Revision
		Revision

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

(3rd Semester)

Name of the Paper:- P D E

CLASS : B.Sc II

Name of the Teacher : Mr. MANISH KUMAR

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	Partial differential equation and their formaton
		order and degree
		linear and non linear partial differential equation
		complete and singular solution
<b>SUNDAY - 08.11.2020</b>		
2	November (9-13)	lagrange linear equations
		charpit method
		compatiable system
		example
<b>HOLIDAY - 14.11.2020 (Diwali)</b>		
<b>SUNDAY - 15.11.2020</b>		
3	November (16-21)	jacobi method
		example
		example
		example
<b>SUNDAY - 22.11.2020</b>		
4	November (23-28)	linear partial differential equation of second order
		complementary function and particular integral
		complementary function and particular integral
		solution of homogenous p d e
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
5	December (1-5)	General method for particular integral
		examples
		examples
<b>SUNDAY - 06.12.2020</b>		

6	December (07-12)	Method of find P.Integral for others method
		examples
		examples
		class discussion
<b>SUNDAY - 13.12.2020</b>		
7	December (14-19)	Non homogeneous linear partial differential equation
		Finding c.f of reducible non homogenous
		General method for irreducible linear partial
<b>SUNDAY - 20.12.2020</b>		
8	December (21-24) (26)	Non homogeneous linear partial differential equation
		Finding c.f of reducible non homogenous
		General method for irreducible linear partial
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
9	December (28-31) January (1-2)	Method of find P.Integral for algrbric function
		Examples
		Examples
		class discussion
<b>SUNDAY - 03.01.2021</b>		
10	January (4-9)	classification of linear partial differential equation
		Reduction to canonical forms
		Hyperbolic equation reduce in canonical forms
		Examples
<b>SUNDAY - 10.01.2021</b>		
11	January (11-16)	Parabolic equation reduce in canonical forms
		elliptic equation reduce in canonical forms
		Examples
		Examples
		class discussion
<b>SUNDAY - 17.01.2021</b>		

12	January (18-19) (21-23)	Solution of linear hyperbolic equation
		Riemann method for solution of Linear equation
		Examples
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
13	January (25) (27-30)	Monges method
		Monges method of integration
		Examples
		Examples
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		
14	February (01-06)	Characterstic equation and characterstic curves
		Cauchy problems for second order differential equation
		Examples
		Examples
		class discussion
<b>SUNDAY - 07.02.2021</b>		
15	February (08-13)	Method of seperation of variables
		Wave equation
		Heat equation
		Examples
		Examples
<b>SUNDAY - 14.02.2021</b>		
16	February (15 - 20)	Method of seperation of variables laplace equation
		Examples
		Examples
		Revision
		Revision

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

(3rd Semester)

Name of the Paper:- STATICS

CLASS : B.Sc II

Name of the Teacher : Ms. KANAK SHARMA

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	Mechanics and its Branches, Definitions related to Statics
		Forces Acting at a Point
		Resultant and Components
		Parallelogram Law of Forces
		Questions based on Parallelogram Law of Forces
SUNDAY - 08.11.2020		
2	November (9-13)	Questions based on Parallelogram Law of Forces
		Resolved parts of a force
		Resolved parts of a force
		Triangle Law of Forces
		Triangle Law of Forces
HOLIDAY - 14.11.2020 (Diwali)		
SUNDAY - 15.11.2020		
3	November (16-21)	Lami's Theorem
		Questions based on Lami's Theorem
		Questions based on Lami's Theorem
		Theorem of Resolved Parts
		Theorem of Resolved Parts
		Conditions of Equilibrium of Concurrent Forces
SUNDAY - 22.11.2020		
4	November (23-28)	Conditions of Equilibrium of Concurrent Forces
		Equilibrium of Bodies on Inclined Plane
		Problem Discussion
		Parallel Forces
		Resultant of Parallel Forces
		Resultant of Parallel Forces
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
	December (1-5)	Centre of Parallel Forces
		Theorem of Resolved Parts and related questions
		Theorem of Resolved Parts and related questions
		Theorem of Resolved Parts and related questions
		Problem Discussion
SUNDAY - 06.12.2020		

6	December (07-12)	Moment of a Force
		Moment of a Force
		Varignon's Theorem and related articles
		Varignon's Theorem and related articles
		Questions based on Varignon's Theorem
		Questions based on Varignon's Theorem
<b>SUNDAY - 13.12.2020</b>		
6	December (14-19)	Centre of a number of Parallel Forces
		Centre of a number of Parallel Forces
		Couples
		Couples
		Problem Discussion
		Friction(Introduction)
<b>SUNDAY - 20.12.2020</b>		
7	December (21-24) (26)	Laws of Friction
		Articles based on Friction
		Articles based on Friction
		Questions based on Friction
		Questions based on Friction
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
8	December (28-31) January (1-2)	Equilibrium of Rods and Ladders
		Equilibrium of Rods and Ladders
		Problem Discussion
		Centre of Gravity
		Articles based on Centre of Gravity
		Articles based on Centre of Gravity
<b>SUNDAY - 03.01.2021</b>		
9	January (4-9)	Articles based on Centre of Gravity
		Questions based on Centre of Gravity
		Questions based on Centre of Gravity
		Centre of Gravity by Integration
		Centre of Gravity by Integration
		Centre of Gravity by Integration
<b>SUNDAY - 10.01.2021</b>		
10	January (11-16)	Centre of Gravity by Integration
		Questions based on Centre of Gravity by Integration
		Questions based on Centre of Gravity by Integration
		Questions based on Centre of Gravity by Integration
		Problem Discussion
		Forces in Three Dimensions
<b>SUNDAY - 17.01.2021</b>		

11	January (18-19) (21-23)	Axis of Couple
		Theorem based on Forces in Three Dimensions
		Theorem based on Forces in Three Dimensions
		Questions based on Forces in Three Dimensions
		Questions based on Forces in Three Dimensions
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
12	January (25) (27-30)	Questions based on Forces in Three Dimensions
		Wrenches and related theorems
		Wrenches and related theorems
		Questions based on Wrenches
		Questions based on Wrenches
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		
13	February (01-06)	Null Lines and Null Planes
		Null Lines and Null Planes
		Null Lines and Null Planes
		Null Lines and Null Planes
		Analytical Conditions of Equilibrium of Coplanar Forces
		Analytical Conditions of Equilibrium of Coplanar Forces
<b>SUNDAY - 07.02.2021</b>		
14	February (08-13)	Analytical Conditions of Equilibrium of Coplanar Forces
		Virtual Work
		Virtual Work
		Virtual Work
		Virtual Work
		Problem Discussion
<b>SUNDAY - 14.02.2021</b>		
15	February (15 - 20)	Stable, Unstable and Neutral Equilibrium
		Stable, Unstable and Neutral Equilibrium
		Stable, Unstable and Neutral Equilibrium
		Stable, Unstable and Neutral Equilibrium
		Stable, Unstable and Neutral Equilibrium
		Problem Discussion

**I.B. (PG) COLLEGE, PANIPAT**  
**SESSION 2020-2021**

Weekly Lesson Plan (Odd Semester)

(3rd Semester)

Name of the Paper:- DATA STRUCTURE

CLASS : B.Sc II

Name of the Teacher : Ms. DEEPTY JUNEJA

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	
		Elementary Data Organization
		Introduction To Data Structure, Classification of data structure
		Data type vs. Data structure
<b>SUNDAY - 08.11.2020</b>		
2	November (9-13)	
		Data structure operations, Application of data structure
		Algorithms
		Complexity and time space tradeoff, Big O notation
<b>HOLIDAY - 14.11.2020 (Diwali)</b>		
<b>SUNDAY - 15.11.2020</b>		
3	November (16-21)	
		Strings
		String Operations
		Pattern matching algo
<b>SUNDAY - 22.11.2020</b>		
4	November (23-28)	
		Pattern matching algo
		Arrays, Types of Arrays
		Linear arrays , representation of linear arrays in memory
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
5	December (1-5)	
		Operations on linear arrays, Traversal in an array
		Insertions in an array,
		Deletion in an array
<b>SUNDAY - 06.12.2020</b>		

6	December (07-12)	
		Two Dimensional arrays, Multidimensional arrays
		Parallel Array, Sparse arrays
		Assignment I
<b>SUNDAY - 13.12.2020</b>		
7	December (14-19)	
		Link list ,link list vs. Array
		Representation of link list in memory
		Traversing a link list
<b>SUNDAY - 20.12.2020</b>		
8	December (21-24) (26)	
		Conditional Test
		Insertion into a link list, deletion from a link list
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
9	December (28-31) January (1-2)	
		Searching in a link list
		Header link list
		circular link list
<b>SUNDAY - 03.01.2021</b>		
10	January (4-9)	
		two way link list
		Garbage Collection, application of link list
		Stack intro, operation on stack
<b>SUNDAY - 10.01.2021</b>		
11	January (11-16)	
		algo of push and pop
		Representation of stack as link list and array
		Applications of stack
<b>SUNDAY - 17.01.2021</b>		

12	January (18-19) (21-23)	
		Introduction to queue,Representation of queue
		Operations on queue
		Assignment II,Deque,Priority queue,Application of Queue
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
13	January (25) (27-30)	
		Tree intro,binary tree
		tree representation using link list and array
		Traversal Algorithm without Recursion
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		
14	February (01-06)	
		Traversal Algorithm without Recursion
		Traversal Algorithm without Recursion
		Traversal Algorithm with Recursion
<b>SUNDAY - 07.02.2021</b>		
15	February (08-13)	
		Traversal Algorithm with Recursion
		Traversal Algorithm with Recursion
		Representation of Graph, Introduction to graph,basic Terminology
<b>SUNDAY - 14.02.2021</b>		
16	February (15 - 20)	
		Revision
		Revision
		Revision

**I.B. (PG) COLLEGE, PANIPAT**  
**SESSION 2020-2021**

Weekly Lesson Plan (Odd Semester)

(3rd Semester)

Name of the Paper:- SOFTWARE ENGG.

CLASS : B.Sc II

Name of the Teacher : Ms. DEEPTY JUNEJA

WEEK	DATE	TOPICS
1	November (2 -3), (5 - 7)	Program vs software, software engineering, programming paradigm.
		Software crisis, phases in software development
<b>SUNDAY - 08.11.2020</b>		
2	November (9-13)	phases in software development
		Water fall model
		spiral model, prototype model
<b>HOLIDAY - 14.11.2020 (Diwali)</b>		
<b>SUNDAY - 15.11.2020</b>		
3	November (16-21)	Evolutionary, Role of matrix in software development
		Feasibility study, SRS, need of SRS
		Characteristics of SRS, components of SRS
<b>SUNDAY - 22.11.2020</b>		
4	November (23-28)	Problem analysis, information gathering tools,
		information gathering tools, organising and structuring information
		Requirement specification, validation and metrics
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
5	December (1-5)	SCM, data flow diagram, data dictionary
		decision table, decision tree, structure english
		ER diagram
<b>SUNDAY - 06.12.2020</b>		
6	December (07-12)	Software Project Planning
		COCOMO Model
		Project scheduling
<b>SUNDAY - 13.12.2020</b>		

7	December (14-19)	staffing and personal planning
		Team structure
		SCM
<b>SUNDAY - 20.12.2020</b>		
8	December (21-24) (26)	Quality assurance plan
		assignment-1
		Unit testing, Integration Testing
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
9	December (28-31) January (1-2)	Verification & Validation
		Break and continue statement
		Assignment-2
<b>SUNDAY - 03.01.2021</b>		
10	January (4-9)	Problem discussion
		Basics of Software testing strategies
		Conditional Test
<b>SUNDAY - 10.01.2021</b>		
11	January (11-16)	Unit Testing, Integration testing
		Validation Testing, System Testing
		Alpha testing, Beta Testing
<b>SUNDAY - 17.01.2021</b>		
12	January (18-19) (21-23)	Black Box Testing
		Black Box Testing
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
13	January (25) (27-30)	White Box Testing
		White Box Testing
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		

14	February (01-06)	White Box Testing
		Cyclomatic Complexity
		Maintenance And its Type
<b>SUNDAY - 07.02.2021</b>		
15	February (08-13)	Management of Maintenance,Maintenance Process
		Maintenance Characterstics
		Discussion
<b>SUNDAY - 14.02.2021</b>		
16	February (15 - 20)	Revision
		Revision
		Revision

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

(3rd Semester)

Name of the Paper:- HINDI

CLASS : B.Sc II

Name of the Teacher : Dr. SHARMELA YADAV

WEEK	DATE	TOPICS
1	November (2-3), (5-7)	मैथिलीशरण गुप्त परिचय
		कविता मात मन्दिर
		सुदामा कविता
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SUNDAY - 08.11.2020		
2	November (9-13)	यशोधरा - सखि संवाद कविता
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		वीर अभिमन्यु कविता
		----- वही-----
HOLIDAY - 14.11.2020 (DIWALI)		
SUNDAY - 29.11.2020		
3	November (16-21)	अतीत का गौरव गान
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		मैथिलीशरण गुप्ता की काव्यगत विशेषताएं
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SUNDAY - 22.11.2020		
4	November (23-28)	जयशंकर प्रसाद का जीवन परिचय
		कविता मधुमय देश
		----- वही-----
		बीती विभावरी जागरी कविता
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		खोलोद्वर कविता
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		

5	December (1-5)	भारतवर्ष कविता
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		अशोक की चिंता
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<b>SUNDAY - 06.12.2020</b>		
6	December (07-12)	प्रसाद' की साहित्यिक विशेषताएँ
		सूर्यकांत त्रिपाठी निराला का परिचय
		वीणा वादिनी वर दे
		----- वही-----
		ध्वनि
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<b>SUNDAY - 13.12.2020</b>		
7	December (14-19)	स्नेह निर्झर बह गया है' कविता
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		विधवा
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<b>SUNDAY - 20.12.2020</b>		
8	December (21-24) (26)	भिक्षुक कविता
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		साहित्यिक विशेषताएँ 'निराला' जी के काव्य
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
9	December (28-31) January (1-2)	रामधारी सिंह 'दिनकर' का जीवन परिचय
		गीत अगीत कविता
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		गाँधी कविता
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<b>SUNDAY - 03.01.2021</b>		

10	January (4-9)	परंपरा कविता
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		जूठा पत्ता' कविता
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<b>SUNDAY - 10.01.2021</b>		
11	January (11-16)	आदमी' कविता
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		साहित्यिक परिचय (दिनकर )
		निबंध लेखन (मानवधिकार)
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नैतिक शिक्षा		
<b>SUNDAY - 17.01.2021</b>		
12	January (18-19) 21-23)	पथ-निशेष निबंध
		विज्ञान और औद्योगिकीकरण
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		वैज्ञानिकपद्धति में भारत का योगदान
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<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
13	January (25) (27-30)	वैश्वीकरण और विज्ञान
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		समाचार पत्रों का महत्व
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<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		
14	February (01-06)	पत्र एवं तार लेखन
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<b>SUNDAY - 07.02.2021</b>		

15	February (08-13)	----- वही-----
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<b>SUNDAY - 14.02.2021</b>		
16	February (15 - 20)	वैज्ञानिक शब्दावली
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