

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

( 1st Semester)

Name of the Paper:- Electricity, Magnetism and Electromagnetic Theory

CLASS : B.Sc I

Name of the Teacher : Prof. GARIMA TARIKA

WEEK	DATE	TOPICS
1	November (16-21)	Unit - I : vector background and electric field
		gradient of a scalar and its physical significance
		line, surface and volume integral of a vector and their physical significance
<b>SUNDAY - 22.11.2020</b>		
2	November 28) (23-	flux of a vector, divergence and curl of a vector and their physical significance
		ghost divergence theorem
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
3	December (1-5)	Stoke's Theorem
		derivation of field E from potential as gradient
		derivation of Laplace and Poisson's equation
<b>SUNDAY - 06.12.2020</b>		
4	December (07-12)	mechanical force of charged surface
		Energy per unit volume
		Unit -II
		Magnetic induction, magnetic flux
<b>SUNDAY - 13.12.2020</b>		
5	December (14-19)	solenoidal nature of vector field of induction
		Properties of B
		electronic theory of diamagnetism
		Assignment 1
<b>SUNDAY - 20.12.2020</b>		

6	December (21-24) (26)	electronic theory of paramagnetism
		domain theory of ferromagnetism
		Revision
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
7	December (28-31) January (1-2)	cycle of magnetisation hysteresis loop
		Unit III
		Maxwell equations and their derivations
<b>SUNDAY - 03.01.2021</b>		
8	January (4-9)	displacement current
		vector and scalar potential
		boundary condition at interface between two different media
<b>SUNDAY - 10.01.2021</b>		
9	January (11-16)	propagation of electromagnetic wave
		poynting vector and poynting theorem
		Numericals
		Unit Test
<b>SUNDAY - 17.01.2021</b>		
10	January (18-19) 21-23)	Unit IV : AC circuit analysis using complex variable with
		(a) capacitance and resistance
		(b) resistance and inductance
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
11	January (25) (27-30)	AC circuit analysis using complex variable with
		(c) capacitance and inductance
		(d) capacitance, inductance and resistance
		Assignment 2
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		

12	February (01-06)	series and parallel resonant circuit
		Quality factor(sharpness of resonance)
		numericals
<b>SUNDAY - 07.02.2021</b>		
13	February (08-13)	
<b>SUNDAY - 14.02.2021</b>		
14	February (15 - 20)	

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

Weekly Lesson Plan (Odd Semester)

( 1st Semester)

Name of the Paper:- Classical Mechanics      CLASS : B.Sc I

Name of the Teacher : Prof. DEEPA SAINI

WEEK	DATE	TOPICS
1	November (16-21)	UNIT-I (BASIC CONCEPTS OF CLASSICAL MECHANICS ) INTRODUCTION OF CLASSICAL MECHANICS , MECHANICS OF A SINGLE PARTICLE
		TYPES OF FORCES, SOME IMPORTANT TERMS USED IN CLASSICAL MECHANICS AND THEIR BRIEF DESCRIPTION
		NEWTON'S SECOND LAW OF MOTION, WORK DONE IN TERMS OF KINETIC ENERGY AND POTENTIAL ENERGY , CONSERVATION THEOREM OF LINEAR MOMENTUM FOR A SINGLE PARTICLE
<b>SUNDAY - 22.11.2020</b>		
2	November (23-28)	CONSERVATION THEOREM OF ANGULAR MOMENTUM FOR A SINGLE PARTICLE
		CONSERVATION THEOREM OF ENERGY FOR A SINGLE PARTICLE, MECHANICS OF A SYSTEM OF PARTICLES
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
3	December (1-5)	CENTER OF MASS OF SYSTEM OF PARTICLES
		CONSERVATION THEOREM OF LINEAR MOMENTUM FOR A SYSTEM OF PARTICLES
		CONSERVATION THEOREM OF ANGULAR MOMENTUM FOR A SYSTEM OF PARTICLES
<b>SUNDAY - 06.12.2020</b>		
4	December (07-12)	CONSERVATION THEOREM OF ANGULAR MOMENTUM OF A SYSTEM OF PARTICLES IN TERMS OF C.M
		CONSERVATION THEOREM OF ENERGY FOR A SYSTEM OF 'N' PARTICLES, KINETIC ENERGY OF SYSTEM IN TERMS OF CM , CONSTRAINTS , (ASSIGNMENT- I )
<b>SUNDAY - 13.12.2020</b>		
5	December (14-19)	DISCUSSION OF PROBLEMS BASED ON UNIT-I
		DEGREES OF FREEDOM, GENERALIZED CO-ORDINATES, TRANSFORMATION EQUATIONS ,GENERALIZED DISPLACEMENT
		GENERALIZED VELOCITY,GENERALIZED ACCELERATION , GENERALIZED MOMENTUM
<b>SUNDAY - 20.12.2020</b>		

6	December (21-24) (26)	GENERALIZED FORCE , GENERALIZED POTENTIAL , ADVANTAGES OF GENERALIZED COORDINATES
		CONFIGURATION SPACE , HAMILTON'S VARIATIONAL PRINCIPLE AND DERIVATION
		CONFIGURATION SPACE , HAMILTON'S VARIATIONAL PRINCIPLE AND DERIVATION
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
7	December (28-31) January (1-2)	IMPORTANCE OF LAGRANGIAN FORMULATION ,LINEAR HARMONIC OSCILLATOR
		ATWOOD'S MACHINE, SIMPLE PENDULUM ,PROBLEM DISCUSSION
		DISCUSSION OF PROBLEMS BASED ON UNIT-2
<b>SUNDAY - 03.01.2021</b>		
8	January (4-9)	UNIT -III (THEORY OF RELATIVITY) FRAME OF REFERENCE , LIMITATION OF NEWTON'S LAW OF MOTION, INERTIAL FRAME OF REFERENCE
		GALILEAN TRANSFORMATION , GALILEAN INVARIANCE (MEASUREMENT OF LENGTH & VELOCITY)
		GALILEAN INVARIANCE ( MEASUREMENT OF ACCELERATION) CONSERVATIONS LAWS ACCORDING TO GALILEAN'S TRANSFORMATIONS (CONSERVATION OF MOMENTUM)
<b>SUNDAY - 10.01.2021</b>		
9	January (11-16)	CONSERVATION OF ENERGY , TRANSFORMATION EQUATION FOR A FRAME OF REFERENCE INCLINED TO AN INERTIAL FRAME
		TRANSFORMATION EQUATION FOR ROTATING FRAME OF REFERENCE , NON INERTIAL FRAME OF REFERENCE
		ASSIGNMENT -II
<b>SUNDAY - 17.01.2021</b>		
10	January (18-19) (21-23)	CONDOTIONAL TEST
		THE ACCELERATED FRAME OF REFERENCE AND ROTATING FRAME OF REFERENCE
		FUNDAMENTAL FRAME OF REFERENCE
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		

11	January (25) (27-30)	MICHELSON-MORLEY EXPERIMENT CONCEPT OF EINSTEIN'S RELATIVITY
		UNIT IV: (APPLICATION OF THEORY OF RELATIVITY ) SPECIAL THEORY OF RELATIVITY
		LORENTZ COORDINATE AND PHYSICAL SIGNIFICANCE OF LORENTZ INVARIANCE
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		
12	February (01-06)	LENGTH CONTRACTION , TIME DILATION
		TWIN PARADOX, VELOCITY ADDITION THEOREM
		VARIATION OF MASS WITH VELOCITY ,MASS ENERGY EQUIVALENCE
<b>SUNDAY - 07.02.2021</b>		
13	February (08-13)	TRANSFORMATION OF RELATIVISTIC MOMENTUM AND ENERGY
		RELATION BETWEEN RELATIVISTIC MOMENTUM AND ENERGY
		MASS, VELOCITY ,MOMENTUM AND ENERGY OF ZERO REST MASS
<b>SUNDAY - 14.02.2021</b>		
14	February (15 - 20)	NUMERICALS
		Revision
		Revision

**I.B. (PG) COLLEGE, PANIPAT****SESSION 2020-2021****Weekly Lesson Plan (Odd Semester)****( 1st Semester)****Name of the Paper:-** Org.& Inorg. Chem.**CLASS :** B.Sc I**Name of the Teacher :** Prof. RANJANA SHARMA

WEEK	DATE	TOPICS
1	November (16-21)	<b>Organic Chemistry</b> -Structure and Bonding Localized and delocalized chemical bond, Van der Waal' s interactions, resonance: conditions, resonance effect and its applications, hyperconjugation, inductive effect, Electromeric effect & their comparison.
<b>SUNDAY - 22.11.2020</b>		
2	November (23-28)	<b>Stereochemistry of Organic Compounds</b> , Concept of isomerism. Types of isomerism. Optical isomerism - elements of symmetry, molecular chirality enantiomers, stereogenic centre, optical activity, properties of enantiomers, chiral and achiral molecules with two stereogenic centres, diastereomers, threo and erythro diastereomers,
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
3	December (1-5)	meso compounds, resolution of enantiomers, inversion, retention and racemization. Relative and absolute configuration, sequence rules, R & S systems of nomenclature.
<b>SUNDAY - 06.12.2020</b>		
4	December (07-12)	Geometric isomerism $\frac{3}{4}$ determination of configuration of geometric isomers. E & Z system of nomenclature, Conformational isomerism $\square$ conformational analysis of ethane and n- butane
<b>SUNDAY - 13.12.2020</b>		
5	December (14-19)	conformations of cyclohexane, axial and equatorial bonds. Newman projection and Sawhorse formulae, Difference between configuration and conformation.
<b>SUNDAY - 20.12.2020</b>		
6	December (21-24) (26)	<b>Mechanism of Organic Reactions</b> , Curved arrow notation, drawing electron movements with arrows, half-headed and double-headed arrows, homolytic and heterolytic bond breaking. Types of reagents – electrophiles and nucleophiles. Types of organic reactions.
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
7	December (21-24) (26)	Reactive intermediates $\frac{3}{4}$ carbocations, carbanions, free radicals, carbenes,(formation, structure & stability).
<b>SUNDAY - 03.01.2021</b>		
8	January (4-9)	<b>Alkanes and Cycloalkanes</b> , IUPAC nomenclature of branched and unbranched alkanes, classification of carbon atoms in alkanes. Isomerism in alkanes, sources, methods of formation: Wurtz reaction, Kolbe reaction, Corey- House reaction and decarboxylation of carboxylic acids, physical properties.
<b>SUNDAY - 10.01.2021</b>		

9	January (11-16)	Mechanism of free radical halogenation of alkanes: reactivity and selectivity. Cycloalkanes -nomenclature, synthesis of cycloalkanes and their derivatives – photochemical (2+2) cycloaddition reactions, , dehalogenation of a,w-dihalides, , pyrolysis of calcium or barium salts of dicarboxylic acids, Baeyer's strain theory and its limitations., theory of strainless rings
<b>SUNDAY - 17.01.2021</b>		
10	January (18-19) 21-23)	<b>Inorganic Chemistry- Atomic Structure</b> , Idea of de Broglie matter waves, Heisenberg's uncertainty principle, atomic orbitals, quantum numbers, radial and angular wave functions, normal and orthogonal wave functions, significance of $\Psi$ and $\Psi^2$ , probability distribution curves, shapes of s, p, d, f orbitals, Aufbau and Pauli exclusion principles, Hund's multiplicity rules, Electronic configuration of elements, effective nuclear charge, Slater's rules.
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
11	January (25) (27-30)	<b>Periodic table and atomic properties</b> , Classification of periodic table into s, p, d, f blocks, atomic and ionic radii, ionisation energy, electron affinity and electronegativity definition, methods of determination or evaluation, trend in periodic table (in s and p-block elements), Pauling, Mulliken, Allred Rachow and Mulliken Jaffe's electronegativity scale, Sanderson's electron density ratio.
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		
12	February (01-06)	Valence bond theory (Heitler-London and Pauling approach) and its limitation, directional characteristics of covalent bond, various type of hybridisation and shapes of simple inorganic molecules and ions ( $\text{BeF}_2$ , $\text{BF}_3$ , $\text{CH}_4$ , $\text{PF}_5$ , $\text{SF}_6$ , $\text{IF}_7$ , $\text{SO}_4^{2-}$ , $\text{ClO}_4^{-1}$ , $\text{NO}_3^{-1}$ )
<b>SUNDAY - 07.02.2021</b>		
13	February (08-13)	<b>Covalent Bond</b> , Valence shell electron pair repulsion (VSEPR) theory to $\text{NH}_3$ , $\text{H}_3\text{O}^+$ , $\text{SF}_4$ , $\text{ClF}_3$ , $\text{H}_2\text{O}$ , $\text{SnCl}_2$ , $\text{ClO}_3^{-1}$ and $\text{ICl}_2^{-1}$ . Molecular orbital theory of homonuclear ( $\text{N}_2$ , $\text{O}_2$ ) heteronuclear ( $\text{CO}$ and $\text{NO}$ ) diatomic molecules and ions, bond energy, bond angle, bond length and dipole moments, percentage ionic character from dipole moment and electronegativity difference.
<b>SUNDAY - 14.02.2021</b>		
14	February (15 - 20)	<b>Ionic Solids</b> , Ionic structures ( $\text{NaCl}$ , $\text{CsCl}$ , $\text{ZnS}$ (Zinc blende), $\text{CaF}_2$ ) size effects, radius ratio rule and its limitations, Madelung constant, Stoichiometric and Non stoichiometric defects in crystals, Lattice energy (mathematical derivation excluded) and Born- Haber cycle, Solvation energy and its relation with solubility of Ionic solids, Polarizing power and Polarisability of ions, Fajan's rule



**I.B. (PG) COLLEGE, PANIPAT****SESSION 2020-2021****Weekly Lesson Plan (Odd Semester)****( 1st Semester)****Name of the Paper:- Physical Chemistry****CLASS : B.Sc I****Name of the Teacher : Dr. Vikram Kumar**

<b>WEEK</b>	<b>DATE</b>	<b>TOPICS</b>
<b>1</b>	<b>November (16-21)</b>	Kinetic Molecular Theory of Gases, Maxwell' s distribution of velocities and energies ( derivation excluded)
<b>SUNDAY - 22.11.2020</b>		
<b>2</b>	<b>November (23-28)</b>	Calculation of root mean square velocity, average velocity and most probable velocity. Collision diameter, collision number, collision frequency and mean free path ( Derivations excluded)
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
<b>3</b>	<b>December (1-5)</b>	Deviation of Real gases fro m ideal behavior, Derivation of Van der Waal' s Equation of State
<b>SUNDAY - 06.12.2020</b>		
<b>4</b>	<b>December (07-12)</b>	Derivation of Van der Waal' s Equation of State, its application in the calculation of Boyle' s temperature ( compression factor)
<b>SUNDAY - 13.12.2020</b>		
<b>5</b>	<b>December (14-19)</b>	Critical temperature, critical pressure, critical volume and their determination. PV isotherms of real gases,
<b>SUNDAY - 20.12.2020</b>		
<b>6</b>	<b>December (21-24) (26)</b>	continuity of states, the isotherms of Van der Waal' s equation, relationship between critical constants
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
<b>7</b>	<b>December (21-24) (26)</b>	Van der Waal' s constants. Critical compressibility factor. The Law of corresponding states.
<b>SUNDAY - 03.01.2021</b>		
<b>8</b>	<b>January (4-9)</b>	Classification of solids, Law of constancy of interfacial angles, law of rational indices, Miller indices
<b>SUNDAY - 10.01.2021</b>		
<b>9</b>	<b>January (11-16)</b>	elementary ideas of symmetry and symmetry elements, seven crystal systems and fourteen Bravais lattices; X-ray diffraction, Bragg' s law,
<b>SUNDAY - 17.01.2021</b>		

10	<b>January (18-19) 21-23)</b>	a simple account of Laue method, rotating crystal method and powder pattern method.
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
11	<b>January (25) (27-30)</b>	Structure of l iquids, Properties of l iquids – surface tension,
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		
12	<b>February (01-06)</b>	refractive index, viscosity, vapour pressure and optical rotation.
<b>SUNDAY - 07.02.2021</b>		
13	<b>February (08-13)</b>	Revision
<b>SUNDAY - 14.02.2021</b>		
14	<b>February (15 - 20)</b>	Revision

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

( 1st Semester)

Name of the Paper:- Paper - 1

CLASS : B.Sc I (Zoology)

Name of the Teacher : Prof. PAWAN KUMAR

WEEK	DATE	TOPICS
1	November (16-21)	
		Introduction – invertibrates
		Introduction – invertibrates
Porifera: General Characters		
SUNDAY - 22.11.2020		
2	November (23-28)	
		Porifera: Classification
		Porifera: Type Study-Sycon
Porifera: Type Study-Sycon		
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
3	December (1-5)	
		Porifera: Type Study-Sycon
		Porifera: Type Study-Sycon
		Porifera: Type Study-Sycon
SUNDAY - 06.12.2020		
4	December (07-12)	
		Porifera: Canal System in Sponges
		Porifera: Spicules in Sponges
Porifera: Biodiversity		
SUNDAY - 13.12.2020		
5	December (14-19)	
		Porifera: Economic importance
		porifera:- classification
Cell Biology: Plasma Membrane		
SUNDAY - 20.12.2020		

6	December (21-24) (26)	
		Cell Biology: Plasma Membrane
		Class Test
		Cell Biology: Plasma Membrane
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
7	December (28-31) January (1-2)	
		Cell Biology: Plasma Membrane
		Cell Biology: Ribosomes
		Cell Biology: Lysosomes
<b>SUNDAY - 03.01.2021</b>		
8	January (4-9)	
		Assignment
		Cell Biology: Endoplasmic Reticulum
		Cell Biology: Golgi Complex
<b>SUNDAY - 10.01.2021</b>		
9	January (11-16)	
		Cell Biology: Mitochondria
		Cell Biology: Mitochondria
		Cell Biology: Cytoskeleton
<b>SUNDAY - 17.01.2021</b>		
10	January (18-19) 21-23)	
		Cell Biology: Cytoskeleton
		Cell Biology: Cytoskeleton
		Class Test
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
11	January (25) (27-30)	
		Protozoa: Classification
		Protozoa: Biodiversity
		Protozoa: Economic Importance
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		

12	February (01-06)	
		Protozoa: Plasmodium Protozoa: Plasmodium Protozoa: Entamoeba
<b>SUNDAY - 07.02.2021</b>		
13	February (08-13)	
		Protozoa: Entamoeba Protozoa: Trypanosoma Protozoa: Giardia
<b>SUNDAY - 14.02.2021</b>		
14	February (15 - 20)	
		Revision Revision Class Test

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

( 1st Semester)

Name of the Paper:- Life and Diversity from Coelentrata to Helminths  
& Cell Biology – II

CLASS : B.Sc I (Zoology)

Name of the Teacher : Prof. MONIKA

WEEK	DATE	TOPICS
1	November (16-21)	Coelentrata - General characters
		Biodiversity of Coelentrata
		Economic importance of Coelentrata
SUNDAY - 22.11.2020		
2	November (23-28)	Type study of Obelia
		Type study of Obelia
		Type study of Obelia
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
3	December (1-5)	Type study of Obelia
		Type study of Obelia
SUNDAY - 06.12.2020		
4	December (07-12)	Type study of Obelia
		Type study of Obelia
		Type study of Obelia
SUNDAY - 13.12.2020		
5	December (14-19)	Type study of Obelia
		Type study of Obelia
		Type study of Obelia
SUNDAY - 20.12.2020		

6	December (21-24) (26)	Metagenesis of Obelia colony
		Polyp V/S medusa
		Coral and coral reefs
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
7	December (28-31) January (1-2)	polymorphism in siphonophores
		Helminths - General characters
		Biodiversity of helminths
<b>SUNDAY - 03.01.2021</b>		
8	January (4-9)	Economic importance of helminths
		Type study - fasciola hepatica
		Type study - fasciola hepatica
<b>SUNDAY - 10.01.2021</b>		
9	January (11-16)	Type study - fasciola hepatica
		Type study - fasciola hepatica
		Type study - fasciola hepatica
<b>SUNDAY - 17.01.2021</b>		
10	January (18-19) 21-23)	Helminths parasites
		Helminths parasites
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
11	January (25) (27-30)	Oxyuris
		Nuclear membrane
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		

12	February (01-06)	Necleolus
		Nucleosome
		Euchromatin and Heterochromatin chromosome
<b>SUNDAY - 07.02.2021</b>		
13	February (08-13)	Lambrush chromosome
		Polytene chromosome
		Mitosis
<b>SUNDAY - 14.02.2021</b>		
14	February (15 - 20)	Meiosis
		Cause of cancer
		cellular basis of immunity



# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

( 1st Semester)

Name of the Paper:- Diversity of Microbes

CLASS : B.Sc I

Name of the Teacher : Prof. RAJNI

WEEK	DATE	TOPICS
1	November (16-21)	
		Bacteria structure
		Reproduction in bacteria
Continued		
SUNDAY - 22.11.2020		
2	November (23-28)	
		Cyanobacteria structure and Reproduction
		Cyanobacteria structure and Reproduction
Nostoc		
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
3	December (1-5)	
		Introduction to algae
		Introduction to algae
Economic importance of algae		
SUNDAY - 06.12.2020		
4	December (07-12)	
		Classification of algae
		Volvox structure and Reproduction
Volvox structure and Reproduction		
SUNDAY - 13.12.2020		
5	December (14-19)	
		Oedogonium structure and Reproduction
		Continued
Continued		
SUNDAY - 20.12.2020		

6	December (21-24) (26)	
		<i>Oedogonium</i> life cycle
		<i>Oedogonium</i> life cycle continued
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
7	December (28-31) January (1-2)	
		<i>Vaucheria</i> structure
		<i>Vaucheria</i> life cycle
	<i>Ectocarpus</i> structure and Reproduction	
<b>SUNDAY - 03.01.2021</b>		
8	January (4-9)	
		<i>Ectocarpus</i> structure and Reproduction continued
		<i>Polysiphonia</i> structure and Reproduction
	<i>Polysiphonia</i> life cycle	
<b>SUNDAY - 10.01.2021</b>		
9	January (11-16)	
		Introduction to virus
		Structure of TMV and BACTERIOPHAGE, transmission of viruse continued
<b>SUNDAY - 17.01.2021</b>		
10	January (18-19) 21-23)	
		Introduction to fungi
		Introduction to fungi continued
		Classification of fungi
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
11	January (25) (27-30)	
		<i>Phthophthora</i>
		<i>Phthophthora</i> continued
		<i>Mucor</i>
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		

12	February (01-06)	
		<i>Mucor</i> continued
		<i>Penicillium</i>
		<i>Penicillium</i> continued
<b>SUNDAY - 07.02.2021</b>		
13	February (08-13)	
		Test
		<i>Agaricus</i>
		<i>Agaricus</i> continued
<b>SUNDAY - 14.02.2021</b>		
14	February (15 - 20)	
		<i>Puccinia</i>
		<i>Puccinia</i>
		<i>Puccinia</i> continued

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

Weekly Lesson Plan (Odd Semester)

1st Semester

Name of the Paper:- CELL BIOLOGY

Class: 1st year

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

WEEK	DATE	TOPICS
1	November (16-21)	Structure and functions of Cell Wall
		Structure and functions of Cell Wall
		Structure and functions of Plasma Membrane.
<b>SUNDAY - 22.11.2020</b>		
2	November (23-28)	Structure and functions of Plasma Membrane.
		Theories of Plasma Membrane
		Ultrastructure and function of nucleus
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
3	December (1-5)	Ultrastructure and function of nucleus
		Ultrastructure and function of nucleus
		Revision
<b>SUNDAY - 06.12.2020</b>		
4	December (07-12)	Ultrastructure and function of Nucleus
		Ultrastructure and function of Golgi Apparatus
		Ultrastructure and function of Golgi Apparatus
<b>SUNDAY - 13.12.2020</b>		
5	December (14-19)	Ultrastructure and function of Golgi Apparatus
		Ultrastructure and function of Endoplasmic Reticulum
		Ultrastructure and function of Endoplasmic Reticulum
<b>SUNDAY - 20.12.2020</b>		
6	December (21-24) (26)	Ultrastructure and function of Chloroplast
		Revision
		Test
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		

7	December (28-31) January (1-2)	Ultrastructure and function of Chloroplast
		Ultrastructure and function of Chloroplast
		Ultrastructure and function of Mitochondria
<b>SUNDAY - 03.01.2021</b>		
8	January (4-9)	Ultrastructure and function of Mitochondria
		Ultrastructure and function of Lysosomes
		Ultrastructure and function of Lysosomes
<b>SUNDAY - 10.01.2021</b>		
9	January (11-16)	Ultrastructure and function of Peroxisomes and Vacuoles
		Ultrastructure and function of Peroxisomes and Vacuoles
		Revision
<b>SUNDAY - 17.01.2021</b>		
10	January (18-19) 21-23)	Cell Division: Mitosis
		Cell Division: Mitosis
		Cell Division: Meiosis
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
11	January (25) (27-30)	Cell Division: Meiosis
		Morphology of Chromosome
		Morphology of Chromosome
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		
12	February (01-06)	organization, ultrastructure of Centromere
		organization, ultrastructure of Telomere
		Chromosomal alterations
<b>SUNDAY - 07.02.2021</b>		
13	February (08-13)	Chromosomal Alterations
		Variations in Chromosome number
		Variations in Chromosome number
<b>SUNDAY - 14.02.2021</b>		
15	February (15 - 20)	Sex chromosomes and Sex determination.
		Revision
		Revision



# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

( 1st Semester)

Name of the Paper:- Introduction to Biotechnology

CLASS : B.Sc I

Name of the Teacher : Prof. POOJA JAIN

WEEK	DATE	TOPICS
1	November (16-21)	introduction to Biotechnology
		Scopes in Biotechnology
		Applications of Biotechnology
<b>SUNDAY - 22.11.2020</b>		
2	November (23-28)	Applications of Biotechnology
		Introduction to Genetic Engineering
		Plant tissue Culture
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
3	December (1-5)	Plant tissue Culture
		Plant tissue Culture
		Plant tissue Culture
<b>SUNDAY - 06.12.2020</b>		
4	December (07-12)	Animal Tissue Culture
		Animal Tissue Culture
		Animal Tissue Culture
<b>SUNDAY - 13.12.2020</b>		
5	December (14-19)	Animal Tissue Culture
		Cell lines and their maintenance
		Cryopreservation
<b>SUNDAY - 20.12.2020</b>		

6	December (21-24) (26)	Fermentation
		Fermentation
		Immunomobilization of Enzumes
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
7	December (28-31) January (1-2)	Immunomobilization of Enzumes
		Monoclonal antibody
		Monoclonal antibody
<b>SUNDAY - 03.01.2021</b>		
8	January (4-9)	Invitro fertilization
		Embryo transfer Technology
		Introduction to Gene and genome
<b>SUNDAY - 10.01.2021</b>		
9	January (11-16)	Introduction to Gene and genome
		Proteins and proteoms
		Proteins and proteoms
<b>SUNDAY - 17.01.2021</b>		
10	January (18-19) 21-23)	Genetic manipulation
		genetic manipulation
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
11	January (25) (27-30)	DNA fingerprinting
		Forensic Analysis
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		



12	<b>February (01-06)</b>	Bioremediation
		waste treatment Biotechnology
		Biotechnology research in India
<b>SUNDAY - 07.02.2021</b>		
13	<b>February (08-13)</b>	scientific guidelines and risk in context of developing Countries
		Biotechnology growth in context of developmental Science
		Biotechnology growth in context of developmental Science
<b>SUNDAY - 14.02.2021</b>		
14	<b>February (15 - 20)</b>	Ethics in Biotechnology
		intellectual property rights
		revision

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

( 1st Semester)

Name of the Paper:- Paper 2 biochemistry - 1

CLASS : B.Sc I

Name of the Teacher : Prof. MONIKA

WEEK	DATE	TOPICS
1	November (16-21)	
		Biomolecules - Introduction
		Carbohydrates- Introduction
		Biological significance of Carbohydrates
SUNDAY - 22.11.2020		
2	November (23-28)	
		Monosaccharides
		Families of monosaccharides
		Stereoisomerism
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
3	December (1-5)	
		Disaccharides
		Oligosaccharides
		Homo and Heteropolysaccharides
SUNDAY - 06.12.2020		
4	December (07-12)	
		Storage polysaccharide
		Structure and function of Mucopolysaccharides
		Amino acids
SUNDAY - 13.12.2020		
5	December (14-19)	
		Classification of amino acids
		Optical properties of amino acids
		Acid/Base behaviour of proteins
SUNDAY - 20.12.2020		

6	December (21-24) (26)	
		Pka value of amino Acids
		Titration curve
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
7	December (28-31) January (1-2)	
		Structural organisation of protein
		Primary structure of protein
		Secondary structure of protein
<b>SUNDAY - 03.01.2021</b>		
8	January (4-9)	
		tertiary and quaternary structure of protein
		Amino acid analysis
		Lipids Introduction
<b>SUNDAY - 10.01.2021</b>		
9	January (11-16)	
		Sanger's method
		fatty acids
		Essential fatty acids
<b>SUNDAY - 17.01.2021</b>		
10	January (18-19) 21-23)	
		Structure and function of triacylglycerols
		Phospholipids
		Glycolipid
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
11	January (25) (27-30)	
		Bile salts
		Bile acids
		Nucleotides
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		

12	February (01-06)	
		Bases
		Sugars
Phosphates		
<b>SUNDAY - 07.02.2021</b>		
13	February (08-13)	
		DNA
		RNA
Properties of DNA		
<b>SUNDAY - 14.02.2021</b>		
14	February (15 - 20)	
		ATP
		GTP
Coenzymes		

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

( 1st Semester)

Name of the Paper:- Algebra

CLASS : B.Sc I

Name of the Teacher : Dr. ARPANA GARG

WEEK	DATE	TOPICS
1	November (16-21)	Matrices and Elementary Properties
		Matrices and Elementary Properties
		Matrices and Elementary Properties
		Matrices and Elementary Properties
		Matrices and Elementary Properties
		Matrices and Elementary Properties
<b>SUNDAY - 22.11.2020</b>		
2	November (23-28)	Matrices and Elementary Properties
		Matrices and Elementary Properties
		Rank of a Matrix
		Row Echelon Form
		Row Echelon Form
		Row reduced echelon form
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
3	December (1-5)	Row reduced echelon form
		Theorem based on Normal Form
		Normal Form
		Normal Form
		Inverse of a Matrix
<b>SUNDAY - 06.12.2020</b>		
4	December (07-12)	Inverse of a Matrix
		Elementary matrices
		Elementary matrices
		Linearly independent and dependant vectors
		Linearly independent and dependant vectors
<b>SUNDAY - 13.12.2020</b>		
5	December (14-19)	Orthogonal Matrix
		Unitary Matrix
		Characteristic roots of a matrix
		Characteristic roots of a matrix
		Characterstic Vectors of a Matrix
		Characterstic Vectors of a Matrix
<b>SUNDAY - 20.12.2020</b>		

6	December (21-24) (26)	Theroems Based on characteristic roots of a matrix
		Theroems Based on characteristic roots of a matrix
		Cayley hamilton theorem
		questions based on cayley Hamilton Theorem
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
7	December (28-31) January (1-2)	Minimal Polynomial of a matrix
		Minimal Polynomial of a matrix
		Application of matrices to solve system of equations
		Application of matrices to solve system of equations
		Non-Homogeneous system of equations
		Non-Homogeneous system of equations
<b>SUNDAY - 03.01.2021</b>		
8	January (4-9)	Homogeneous system of equations
		General properties of polynomial and equations
		Thoerem based on polynomials
		Horner's method of synthetic division
		Fundamental theorem of algebra
		numericals based on polynomials
<b>SUNDAY - 10.01.2021</b>		
9	January (11-16)	Horner's method of synthetic division
		Horner's method of synthetic division
		Fundamental theorem of algebra
		Thoerem based on polynomials
		numericals based on polynomials
		Relation between the roots and coefficients of an equation
<b>SUNDAY - 17.01.2021</b>		
10	January (18-19) 21-23)	Relation between the roots and coefficients of an equation
		common roots and repeated roots
		Transformation of equation
		Diminishing roots by a given number
		Equation with binomial coefficients
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
11	January (25) (27-30)	Transform an equation whose roots are algebraic functions of the roots of the given equation
		Transform an equation whose roots are algebraic functions of the roots of the given equation
		Roots of squared differences of a cubic
		Discarte's rule of sign
		Discarte's rule of sign
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		

12	February (01-06)	Cardan's method to solve cubic equation
		Irreducible case of Cardan's method
		numericals based on Cardan;s method
		Biquadratic Equation by Decarte's rule
		Ferrari's method of solving biquadratic equation
		Numericals based on biquadratic equation
<b>SUNDAY - 07.02.2021</b>		
13	February (08-13)	Bilinear form
		Canonical bilinear form
		Matrix of quadratic form
		Rank, Index and signature of a quadratic form
		lagrange's method of diagonalisation
		Factorisation of a quadratic form
<b>SUNDAY - 14.02.2021</b>		
14	February (15 - 20)	Nature of quadratic form
		Revision
		Revision
		Revision
		Revision
		Revision

**I.B. (PG) COLLEGE, PANIPAT**

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

( 1st Semester)

Name of the Paper:- Calculus

CLASS : B.Sc I

Name of the Teacher : Ms. KANAK SHARMA

WEEK	DATE	TOPICS
1	November (16-21)	Derivative of a Function, Basics of Differentiation and Integration
		Successive Differentiation
		Questions based on Successive Differentiation
		Questions based on Successive Differentiation
		Differentiation of Parametric Functions
		Differentiation of Parametric Functions
<b>SUNDAY - 22.11.2020</b>		
2	November (23-28)	Differentiation using Partial Fractions
		Differentiation using Partial Fractions
		Leibnitz's Theorem
		Questions based on Leibnitz's Theorem
		Questions based on Leibnitz's Theorem
		Applications of Leibnitz's Theorem
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
3	December (1-5)	Problem Discussion
		Taylor's Theorem with Lagrange's form of remainder
		Questions based on Taylor's Theorem
		Taylor's Theorem with Cauchy's form of remainder
		Questions based on Taylor's Theorem with Cauchy's form of remainder
<b>SUNDAY - 06.12.2020</b>		
4	December (07-12)	Infinite Series
		Infinite Series
		Infinite Series
		Applications of Taylor's Series
		Applications of Taylor's Series
		Expansion by Differential Equations
<b>SUNDAY - 13.12.2020</b>		
5	December (14-19)	Expansion by Differential Equations
		Asymptotes
		Oblique Asymptotes and Questions based on it
		Oblique Asymptotes of Algebraic Curve
		Oblique Asymptotes of Algebraic Curve
		Oblique Asymptotes of Algebraic Curve
<b>SUNDAY - 20.12.2020</b>		



6	December (21-24) (26)	Intersection of Curve and its Asymptotes
		Intersection of Curve and its Asymptotes
		Polar Asymptotes
		Polar Asymptotes
		Problem Discussion
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
7	December (28-31) January (1-2)	Curvature
		Articles related to Curvature
		Questions based on Curvature
		Questions based on Curvature
		Radius of Curvature in Polar Form
<b>SUNDAY - 03.01.2021</b>		
8	January (4-9)	Curvature at Origin
		Centre of Curvature and Evolute of a Curve
		Centre of Curvature and Evolute of a Curve
		Curve Tracing
		Curve Tracing
<b>SUNDAY - 10.01.2021</b>		
9	January (11-16)	Tracing of Polar Curves
		Tracing of Polar Curves
		Reduction Formulae
		Articles related to Reduction Formulae
		Articles related to Reduction Formulae
<b>SUNDAY - 17.01.2021</b>		
10	January (18-19) 21-23)	Questions based on Reduction Formulae
		Questions based on Reduction Formulae
		Rectification, Fundamental Theorem about Rectification
		Rectification, Fundamental Theorem about Rectification
		Length of Parametric Curves
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
11	January (25) (27-30)	Length of Parametric Curves
		Length of Polar Curves
		Intrinsic Equation of a Curve
		Quadrature
		Questions based on Quadrature
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		

12	February (01-06)	Area Between Two Curves
		Area Formula for Parametric Curves
		Area Formula for Parametric Curves
		Area Between Two Polar Curves
		Volume of a Solid of Revolution
		Axis of Revolution
<b>SUNDAY - 07.02.2021</b>		
13	February (08-13)	Volume formula for Polar Curves and Parametric Curves
		Area of a Surface of Revolution
		Theorems and questions based on Limits of Functions
		Theorems and questions based on Limits of Functions
		Continuous Functions
		Theorems and questions based on Continuous Functions
<b>SUNDAY - 14.02.2021</b>		
14	February (15 - 20)	Theorems and questions based on Continuous Functions
		Singular Points
		Articles and Questions based on Singular Points
		Articles and Questions based on Singular Points
		Articles and Questions based on Singular Points
		Problem Discussion

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

( 1st Semester)

Name of the Paper:- SOLID GEOMETRY

CLASS : B.Sc I

Name of the Teacher : Ms. GITIKA DUREJA

WEEK	DATE	TOPICS
1	November (16-21)	Introduction to Conic Sections
		General Equation of Second Degree
		Finding Lengths and equations of axis a central conic
		Numericals Based on Central Conic
		Parabola in General and related numericals
		Tracing of Conics
<b>SUNDAY - 22.11.2020</b>		
2	November (23-28)	Tracing of Conics
		Tangent and normal of a conic
		Articles and numericals based on tangent and normal
		Problem discussion
		Pole and Polar of a conic
		Numericals on Pole and Polar
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
3	December (1-5)	System of Conics
		Related articles and numericals of system of equations
		Confocal Conics
		Related Numericals
		Polar coordinates
<b>SUNDAY - 06.12.2020</b>		
4	December (07-12)	Straight line in polar form
		Circle in Polar form
		Related Numericals
		Sphere : Centre, radius and various forms of sphere
		Sphere passing through four points
		Plane section of a sphere
<b>SUNDAY - 13.12.2020</b>		
5	December (14-19)	Related Numericals
		Sphere passing through a given circle
		Intersection of two spheres
		Sphere and a line
		Related Numericals
		Tangents to a sphere
<b>SUNDAY - 20.12.2020</b>		

6	December (21-24) (26)	Diametral and Polar Plane
		Intersection of two spheres
		Radical Plane
		Problem Discussion
		Equation of a cone with a given vertex and conic as base
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
7	December (28-31) January (1-2)	Equation of a the right circular cone
		Equation of enveloping cone
		Cone representation by general equation of second degree
		Related Numericals
		Equation of a quadric cone through axes
		Condition of cone to have three perpendicular generators
<b>SUNDAY - 03.01.2021</b>		
8	January (4-9)	Equation of a tangent plane
		Condition of tangency
		Equation of reciprocal cone
		Equation of a right circular cylinder in standard form
		Equation of cylinder whose axis and guiding curve are given
		Equation of enveloping cylinder
<b>SUNDAY - 10.01.2021</b>		
9	January (11-16)	Problem discussion
		Conicoid
		Equation of tangency plane
		Condition of tangency
		The equation of director sphere
		Equation of the Normal
<b>SUNDAY - 17.01.2021</b>		
10	January (18-19) 21-23)	Number of normals from a given point
		Cubic curve through the feet of six normals
		Quadric cone through six concurrent normals
		Polar plane of a point
		Reciprocal Property
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
11	January (25) (27-30)	Pole of a given plane
		Polar of a line w.r.t. a conicoid
		Diametral Plane property
		Intersection of a line and a paraboloid
		Condition of tangency of a line for a paraboloid
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		

12	February (01-06)	Central plane sections of a central conicoid
		Circular sections
		Generating Lines of a hyperbolic of one sheet
		Generating Lines of a hyperbolic paraboloid
		Confocal Conicoids
		Confocal through a given point
<b>SUNDAY - 07.02.2021</b>		
13	February (08-13)	Confocal touching a given plane
		Elliptic coordinates
		Locus of poles of planes with respect to confocals
		Normals to th three confocals through a point
		Equation of enveloping cone
		Intersection of a line and a conicoid
<b>SUNDAY - 14.02.2021</b>		
14	February (15 - 20)	Finding an eqn of chord which is bisected at a given point
		Diametral plane conjugate to a given direction
		Principial direction and Principal planes
		Reduction general equation of second degree
		Related Numericals
		Problem discussion

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

( 1st Semester)

Name of the Paper:- PC SOFTWARE

CLASS : B.Sc I

Name of the Teacher : Ms. DEEPTI JUNEJA

WEEK	DATE	TOPICS
1	November (16-21)	
		Basics of Windows, Windows History
		Basics components of Windows, icons & type of icons
		Taskbar, Activating Windows
<b>SUNDAY - 22.11.2020</b>		
2	November (23-28)	
		Desktop, Title Bar, Running Applications
		Windows Explorer, Managing Files & Folder
		Windows Explorer, Managing Files & Folder
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
3	December (1-5)	
		Configuring System Devices
		Control Panel, Windows Accessories
		Introduction to Office Automation
<b>SUNDAY - 06.12.2020</b>		
4	December (07-12)	
		Creating And Editing Documents, Formatting Documents
		Auto Text, Autocorrect, Spelling & Grammar Tools
		Document Dictionary, Page Formatting
<b>SUNDAY - 13.12.2020</b>		
5	December (14-19)	
		Bookmark, Advance Features of MS-Word
		Mail Merge
		Macro, Tables
<b>SUNDAY - 20.12.2020</b>		

6	December (21-24) (26)	
		Assignment I
		File Management
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
7	December (28-31) January (1-2)	
		Printing, Styles
		Linking & Embedding Objects
Introduction to MS-Excel, Creating & Editing Worksheet		
<b>SUNDAY - 03.01.2021</b>		
8	January (4-9)	
		Formatting & Essential Operations
		Formulas, Function
Charts		
<b>SUNDAY - 10.01.2021</b>		
9	January (11-16)	
		Pivot Table & Pivot Chart
		Conditional Test
Linking & Consolidation		
<b>SUNDAY - 17.01.2021</b>		
10	January (18-19) 21-23)	
		Database Management using Excel-Sorting,
		Filtering
Table, Validation		
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
11	January (25) (27-30)	
		Goal Seek, Scenario
		Introduction of Power Point
Creating & Manipulating & Enhancing Slides		
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		

12	February (01-06)	
		Organisational Charts
		Assignment II
		Excel Charts
<b>SUNDAY - 07.02.2021</b>		
13	February (08-13)	
		Word Art, Layering at Objects
		Class Test
		Animation And Sound, Inserting Animated Pictures or Accessing through Objects
<b>SUNDAY - 14.02.2021</b>		
14	February (15 - 20)	
		Inserting Recorded Sound Effects or in Built Sound Effects
		Revision
		Revision



# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

( 1st Semester)

Name of the Paper:- Computer Fundamentals

CLASS : B.Sc I

Name of the Teacher : Ms. DEEPTY JUNEJA

WEEK	DATE	TOPICS
1	November (16-21)	Definition & Functional components of computer
		Characteristics & Limitation of computerclassification of computers
		Classification of Computer
<b>SUNDAY - 22.11.2020</b>		
2	November (23-28)	Classification of Computer
		Applications of Computer
		Memory: Concept of primary & secondary memory
<b>SUNDAY - 29.11.2020</b>		
<b>HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)</b>		
3	December (1-5)	RAM, ROM, types of ROM, Cache memory, CPU Registers
<b>SUNDAY - 06.12.2020</b>		
4	December (07-12)	flash memory, Secondary storage devices: magnetic tape magnetic disk, CD, DVD.
		Magnetic disk, CD, DVD.
		Introduction of Hardware & Software: its types,relationship between hardware and software
<b>SUNDAY - 13.12.2020</b>		
5	December (14-19)	I/O Devices
		I/O Devices
		I/O Devices
<b>SUNDAY - 20.12.2020</b>		

6	December (21-24) (26)	I/O Devices
		I/O Devices
		Assignment I
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
7	December (28-31) January (1-2)	Motherboard, Ports.
		Overview of operating system: Definition, functions of operating system
		Concept of Multiprogramming, Multitasking
<b>SUNDAY - 03.01.2021</b>		
8	January (4-9)	Concept of Multithreading, Multiprocessing
		Concept of Time-sharing, Real time,
		Single-user & Multi-user Operating System, examples of various Operating Systems.
<b>SUNDAY - 10.01.2021</b>		
9	January (11-16)	Problem Discussion
		Conditional test
		Planning the Computer Program: Concept of problem solving, Problem definition,
<b>SUNDAY - 17.01.2021</b>		
10	January (18-19) 21-23)	Program design, Debugging, Types of errors in programming
		Documentation.,Techniques of Problem Solving: Flowcharting
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
11	January (25) (27-30)	Algorithms, Pseudo Code,
		Decision table, Structured programming concepts
		Programming methodologies: Top-down and Bottomup programming
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		

12	February (01-06)	Assignment II
		Searching : Linear Binary Search
		Sorting : Selection sort
<b>SUNDAY - 07.02.2021</b>		
13	February (08-13)	Bubble Sort
		Insertion Sort
		Merging
<b>SUNDAY - 14.02.2021</b>		
14	February (15 - 20)	Computer Languages: Analogy with natural language, machine language
		Assembly language, High-level language
		Language Translators, Characteristics of a good programming language.

# I.B. (PG) COLLEGE, PANIPAT

SESSION 2020-2021

Weekly Lesson Plan (Odd Semester)

( 1st Semester)

Name of the Paper:- ENGLISH

CLASS : B.Sc I

Name of the Teacher : Ms. REKHA SHARMA

WEEK	DATE	TOPICS
1	November (16-21)	
		Poem-1 'Let Me Not to the Marriage of True Minds' reading
		Revision Test
SUNDAY - 22.11.2020		
2	November (23-28)	
		Poem-2 'Death Be Not Proud' (Reading)
		Revision Test
SUNDAY - 29.11.2020		
HOLIDAY - 30.11.2020 (Guru Nanak Dev Jayanti)		
3	December (1-5)	
		Poem-3 'On His Blindness' (reading)
		Revision Test
SUNDAY - 06.12.2020		
4	December (07-12)	
		Poem-4 'The Retreat' (reading)
		Revision Test
SUNDAY - 13.12.2020		
5	December (14-19)	
		Poem-5 'Shadwell' (Reading)
		Revision Test
SUNDAY - 20.12.2020		

6	December (21-24) (26)	
		Prepositions
<b>HOLIDAY - 25.12.2020 (Christmas)</b>		
<b>SUNDAY - 27.12.2020</b>		
7	December (28-31) January (1-2)	
		Practice of Prepositions
		Common Errors
<b>SUNDAY - 03.01.2021</b>		
8	January (4-9)	
		Common Errors
		Phrasal verbs
<b>SUNDAY - 10.01.2021</b>		
9	January (11-16)	
		Poem-6 'Know Thyself' (Reading)
		Revision Test
<b>SUNDAY - 17.01.2021</b>		
10	January (18-19) 21-23)	
		Poem-7 'The Little Black Boy' (Reading)
		Revision Test
<b>HOLIDAY - 20.01.2021 (Guru Gobind Singh Jayanti)</b>		
<b>SUNDAY - 24.01.2021</b>		
11	January (25) (27-30)	
		Poem-8 'Three Years She Grew in Sun and Shower'
		Revision Test
<b>HOLIDAY - 26.01.2021 (Republic Day)</b>		
<b>SUNDAY - 31.01.2021</b>		

12	February (01-06)	
		Poem-9 'England in 1819'
		Revision Test and Assignment
<b>SUNDAY - 07.02.2021</b>		
13	February (08-13)	
		Poem-10 ' Crossing the Bar'
		Revision Test
<b>SUNDAY - 14.02.2021</b>		
14	February (15 - 20)	
		Practice of Translation
		Practice of Translation







