

K.L MEHTA DAYANAND COLLEGE FOR WOMEN FARIDABAD

DEPARTMENT OF B.SC BIOTECH

Lesson Plan 2018 (6th, Jan 2018 to 28th, April 2018)

Name Of The Assistant Professor: Ms. Garima Dhiman

Class: B.Sc.- Biotechnology 4th Sem

Name Of Subject: Chemistry Practicals (Group-A)

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	PRACTICAL: Preparation of tetraammine cupric sulphate
Jan 9, Tuesday	PRACTICAL: Preparation of chrome alum
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	-
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	PRACTICAL: Preparation of potassium trioxalatochromate (III).
Jan 16, Tuesday	PRACTICAL: To determine the CST of phenol – water system.
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	-
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	PRACTICAL: To determine the CST of phenol – water system.
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>

Jan 27, Saturday	-
Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	PRACTICAL: To determine the solubility of benzoic acid at various temperatures and to determine the ΔH of the dissolution process
Jan 30, Tuesday	PRACTICAL: To determine the enthalpy of neutralisation of a strong acid vs. strong base
Jan 31, Wednesday	<i>Holiday (Guru Ravidas jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	-
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	PRACTICAL: To determine the enthalpy of neutralisation of a weak Acid vs weak base
Feb 6, Tuesday	PRACTICAL: To determine the enthalpy of neutralisation of a strong Acid vs weak base
Feb 7, Wednesday	-
Feb 8, Thursday	-
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	PRACTICAL: To determine the enthalpy of solution of solid calcium chloride
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	-
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	PRACTICAL: To determine the enthalpy of solution of solid calcium chloride
Feb 20, Tuesday	PRACTICAL: .To study the distribution of iodine between water and CCl_4 .
Feb 21, Wednesday	-
Feb 22, Thursday	-

Feb 23, Friday	-
Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	PRACTICAL: .To study the distribution of iodine between water and CCl ₄ .
Feb 27, Tuesday	PRACTICAL: To verify Beer - Lambert law for KMnO ₄ and determine the concentration of the given KMnO ₄ solution.
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	PRACTICAL: To verify Beer - Lambert law for K ₂ Cr ₂ O ₇ and determine the concentration of the given K ₂ Cr ₂ O ₇ solution.
Mar 6, Tuesday	PRACTICAL: To verify Beer - Lambert law for KMnO ₄ and determine the concentration of the given KMnO ₄ solution
Mar 7, Wednesday	-
Mar 8, Thursday	-
Mar 9, Friday	-
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	PRACTICAL: To verify Beer - Lambert law for K ₂ Cr ₂ O ₇ and determine the concentration of the given K ₂ Cr ₂ O ₇ solution.
Mar 13, Tuesday	PRACTICAL: To determine the enthalpy of neutralisation of a weak Acid vs weak base
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	-
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	PRACTICAL: To determine the CST of phenol – water system
Mar 20, Tuesday	PRACTICAL: To determine the enthalpy of neutralisation of a strong Acid vs weak base
Mar 21, Wednesday	-

Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	PRACTICAL: To determine the solubility of benzoic acid at various temperatures and to determine the ΔH of the dissolution process
Mar 27, Tuesday	PRACTICAL: Preparation of Cuprous chloride
Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	PRACTICAL: Preparation of prussion blue from iron fillings
Apr 3, Tuesday	PRACTICAL: Revision
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	-
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	PRACTICAL: Revision
Apr 10, Tuesday	PRACTICAL: Revision
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	PRACTICAL: Revision
Apr 17, Tuesday	PRACTICAL: Revision
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>

Apr 19, Thursday	-
Apr 20, Friday	-
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	PRACTICAL: Revision
Apr 24, Tuesday	PRACTICAL: Revision
Apr 25, Wednesday	-
Apr 26, Thursday	-
Apr 27, Friday	-
Apr 28, Saturday	

Lesson Plan

Name of the Assistant Professor : Ms.Garima Dhiman

Class: B.Sc. Biotechnology VI Sem

Name of Subject: Organic Chemistry

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	Heterocyclic Compounds-I: Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine
Jan 11, Thursday	Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution.
Jan 12, Friday	-
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison of basicity of pyridine, piperidine and pyrrole
Jan 18, Thursday	Heterocyclic Compounds-II: Introduction to condensed five and six-membered heterocycles. Preparation and reactions of indole,
Jan 19, Friday	-
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	Preparation of quinoline and isoquinoline with special reference to Fisher indole synthesis, Skraup synthesis and Bischler-Napieralski synthesis Mechanism of electrophilic substitution reactions of, quinoline and isoquinoline

Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-
Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	Assignment and test of heterocyclic compounds
Feb 2, Friday	-
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	Organosulphur Compounds: Nomenclature, structural features, Methods of formation and chemical reactions of thiols, thioethers
Feb 8, Thursday	Methods of formation and chemical reactions of sulphonic acids, sulphonamides and sulphaguanidine.
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	Synthetic detergents alkyl and aryl sulphonates.
Feb 15, Thursday	Assignment and test of organosulphur compounds
Feb 16, Friday	-
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	Organic Synthesis via Enolates: Acidity of α -hydrogens, alkylation of diethyl malonate and ethyl acetoacetate.

Feb 22, Thursday	Synthesis of ethyl acetoacetate: the Claisen condensation.
Feb 23, Friday	-
Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	Keto-enol tautomerism of ethyl acetoacetate.
Mar 8, Thursday	Addition or chain-growth polymerization. Free radical vinyl polymerization, ionic vinyl polymerization,
Mar 9, Friday	-
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	Ziegler-Natta polymerization and vinyl polymers. Condensation or step growth polymerization.
Mar 15, Thursday	Polyesters, polyamides, phenol formaldehyde resins, urea formaldehyde resins, epoxy resins and polyurethanes.
Mar 16, Friday	-
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	Natural and synthetic rubbers and revision of synthetic polymers

Mar 22, Thursday	Amino Acids, Peptides & Proteins: Classification, of amino acids. Acid-base behavior, isoelectric point and electrophoresis
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-
Mar 28, Wednesday	Preparation of α -amino acids. Structure and nomenclature of peptides and proteins
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	Classification of proteins. Peptide structure determination, end group analysis,
Apr 5, Thursday	Selective hydrolysis of peptides. Classical peptide synthesis, solid-phase peptide synthesis.
Apr 6, Friday	-
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	Structures of peptides and proteins: Primary & Secondary structure.
Apr 12, Thursday	Revision of amino acids
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>

Apr 19, Thursday	Assignment on proteins
Apr 20, Friday	-
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	Test of organic synthesis
Apr 26, Thursday	Test of amino acids
Apr 27, Friday	-
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor: Ms.Garima Dhiman

Class: B.Sc.- Biotechnology 6th Sem

Name of Subject: Chemistry Practicals (Group-A)

Jan 6, 2018 (Week 1)	
Jan 5, Friday	<i>Guru govind singh jayanti</i>
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	PRACTICAL: To prepare S-Benzyl-iso-thiouonium chloride from thiourea
Jan 11, Thursday	PRACTICAL: To determine the strength of the given acid solution (mono and dibasic acid) conductometrically
Jan 12, Friday	-
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	PRACTICAL: To determine the strength of the given acid solution (mono and dibasic acid) conductometrically
Jan 18, Thursday	PRACTICAL: To determine the solubility and solubility product of a sparingly soluble electrolyte conductometrically
Jan 19, Friday	-
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	PRACTICAL: To determine the solubility and solubility product of a sparingly soluble electrolyte conductometrically

Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-
Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas jayanti)</i>
Feb 1, Thursday	PRACTICAL: To determine the strength of given acid solution (mono and dibasic acid)/KMnO ₄ – Mohr salt potentiometrically.
Feb 2, Friday	-
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	PRACTICAL: : To determine the strength of given acid solution (mono and dibasic acid)/KMnO ₄ –Mohr salt potentiometrically
Feb 8, Thursday	PRACTICAL: To determine the strength of given acid solution (mono and dibasic acid)/KMnO ₄ – Mohr salt potentiometrically
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	PRACTICAL: To determine the molecular weight of a non-volatile solute by Rast method.
Feb 15, Thursday	PRACTICAL: To determine the molecular weight of a non-volatile solute by Rast method.
Feb 16, Friday	-
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	PRACTICAL: To standardize the given acid solution (mono and dibasic acid) PH metrically.

Feb 22, Thursday	PRACTICAL: To standardize the given acid solution (mono and dibasic acid) pH metrically.
Feb 23, Friday	-
Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	PRACTICAL: Determination of R_f values and identification of organic compounds (a) Separation of green leaf pigments (spinach leaves may be used) by paper chromatographic method
Mar 8, Thursday	PRACTICAL: Determination of R_f values and identification of organic compounds (a) Separation of green leaf pigments (spinach leaves may be used) by paper chromatographic method
Mar 9, Friday	-
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	PRACTICAL: Separation of a mixture of coloured organic compounds using common organic solvents by TLC.
Mar 15, Thursday	PRACTICAL: Separation of a mixture of coloured organic compounds using common organic solvents by TLC.
Mar 16, Friday	-
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	

Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	PRACTICAL: To determine the strength of the given acid solution (mono and dibasic acid) conductometrically
Mar 22, Thursday	PRACTICAL: To determine the solubility and solubility product of a sparingly soluble electrolyte conductometrically
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-
Mar 28, Wednesday	PRACTICAL: To prepare m-nitroaniline from m-dinitrobenzene.
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	PRACTICAL: revision
Apr 5, Thursday	PRACTICAL: revision
Apr 6, Friday	-
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	PRACTICAL: revision
Apr 12, Thursday	PRACTICAL: revision
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	

Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	PRACTICAL: revision
Apr 20, Friday	
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	PRACTICAL: revision
Apr 26, Thursday	PRACTICAL: revision
Apr 27, Friday	-
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor: Ms.Garima Dhiman

Class: B.Sc. Biotech 2nd Sem

Subject: Chemistry Practicals (Group-A)

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	PRACTICAL To prepare Iodoform from ethanol (or acetone)
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	PRACTICAL: To prepare <i>m</i> -Dinitrobenzene from nitrobenzene (use 1:2 conc. HNO ₃ -H ₂ SO ₄ mixture if fuming HNO ₃ is not available)
Jan 13, Saturday	PRACTICAL: To prepare <i>p</i> -Bromoacetanilide from acetanilide
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	PRACTICAL: To prepare Dibenzalacetone from acetone and benzaldehyde
Jan 20, Saturday	PRACTICAL: To prepare Aspirin from salicylic acid
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	PRACTICAL: To study the process of sublimation of camphor and phthalic acid,

Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	PRACTICAL: Qualitative Analysis of Pb ⁺² Inorganic cation by paper chromatography
Feb 3, Saturday	PRACTICAL: Qualitative Analysis of Cu ⁺² Inorganic cation by paper chromatography
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	-
Feb 8, Thursday	-
Feb 9, Friday	PRACTICAL: Qualitative Analysis of Ni ⁺² Inorganic cation by paper chromatography
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	PRACTICAL: Qualitative Analysis of Cl ⁻ Inorganic anion by paper chromatography
Feb 17, Saturday	PRACTICAL: Qualitative Analysis of Br ⁻ Inorganic anion by paper chromatography
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	-
Feb 22, Thursday	-
Feb 23, Friday	PRACTICAL: Qualitative Analysis of NO ₃ ⁻ Inorganic anion by paper chromatography

Feb 24, Saturday	PRACTICAL: To prepare Iodoform from ethanol (or acetone)
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	-
Mar 8, Thursday	-
Mar 9, Friday	PRACTICAL: To prepare <i>m</i> -Dinitrobenzne from nitrobenzene (use 1:2 conc. HNO ₃ -H ₂ SO ₄ mixture if fuming HNO ₃ is not available)
Mar 10, Saturday	PRACTICAL: : To prepare p-Bromoacetanilide from acetanilide
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	PRACTICAL: Qualitative Analysis of Pb ⁺² Inorganic cation by paper chromatography
Mar 17, Saturday	PRACTICAL: Qualitative Analysis of Cu ⁺² Inorganic cation by paper chromatography
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	-
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>

Mar 24, Saturday	PRACTICAL: Qualitative Analysis of Ni ²⁺ Inorganic cation by paper chromatography
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-
Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	PRACTICAL: Qualitative Analysis of Cl ⁻ Inorganic anion by paper chromatography
Mar 31, Saturday	PRACTICAL: Qualitative Analysis of Br ⁻ Inorganic anion by paper chromatography
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	PRACTICAL: Revision
Apr 7, Saturday	PRACTICAL: Revision
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	

Apr 20, Friday	PRACTICAL: Revision
Apr 21, Saturday	PRACTICAL: Revision
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	-
Apr 26, Thursday	-
Apr 27, Friday	PRACTICAL: Revision
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor: Ms.Garima Dhiman

Class: B.Sc. Biotechnology II sem

Name of Subject: Inorganic chemistry

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	General introduction of elements, p-Block Elements: Emphasis on comparative study of properties of p- block elements (including diagonal relationship and excluding methods of preparation).
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	
Jan 9, Tuesday	
Jan 10, Wednesday	
Jan 11, Thursday	
Jan 12, Friday	
Jan 13, Saturday	Boron family (13th gp):- Diborane – properties and structure (as an example of electron – deficient compound and multicentre bonding)
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	
Jan 16, Tuesday	
Jan 17, Wednesday	
Jan 18, Thursday	
Jan 19, Friday	
Jan 20, Saturday	Borazene – chemical properties and structure Trihalides of Boron
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	Trends in Lewis acid character structure of aluminium (III) chloride.

Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	
Jan 30, Tuesday	
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	
Feb 2, Friday	
Feb 3, Saturday	Assignment and test of group 13
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	
Feb 6, Tuesday	
Feb 7, Wednesday	
Feb 8, Thursday	
Feb 9, Friday	
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	
Feb 15, Thursday	
Feb 16, Friday	
Feb 17, Saturday	Catenation, pII– dII bonding (an idea), carbides, fluorocarbons
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	
Feb 20, Tuesday	
Feb 21, Wednesday	
Feb 22, Thursday	
Feb 23, Friday	
Feb 24, Saturday	silicates (structural aspects), silicons – general methods of preparations, properties and uses.
Feb 26, 2018 to Mar 3, 2018 (Week 9)	

Feb 26, Monday	
Feb 27, Tuesday	
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	
Mar 6, Tuesday	
Mar 7, Wednesday	
Mar 8, Thursday	
Mar 9, Friday	
Mar 10, Saturday	Assignment and test of group 14
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	
Mar 13, Tuesday	
Mar 14, Wednesday	
Mar 15, Thursday	
Mar 16, Friday	
Mar 17, Saturday	Nitrogen Family (15th group) Oxides – structures of oxides of N,P.
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	
Mar 20, Tuesday	
Mar 21, Wednesday	
Mar 22, Thursday	
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	oxyacids – structure and relative acid strengths of oxyacids of Nitrogen and phosphorus. Structure of white, yellow and red phosphorus.
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	

Mar 27, Tuesday	
Mar 28, Wednesday	
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	
Mar 31, Saturday	Oxygen Family (16th group) Oxyacids of sulphur – structures and acidic strength H_2O_2 – structure, properties and uses.
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	
Apr 3, Tuesday	
Apr 4, Wednesday	
Apr 5, Thursday	
Apr 6, Friday	
Apr 7, Saturday	Halogen Family (17th group) Basic properties of halogen, inter halogens types properties
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	
Apr 10, Tuesday	
Apr 11, Wednesday	
Apr 12, Thursday	
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	
Apr 17, Tuesday	
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	
Apr 20, Friday	
Apr 21, Saturday	Halogen Family (17th group) Basic properties of halogen, inter halogens types properties
Apr 23, 2018 to Apr 28, 2018 (Week 17)	

Apr 23, Monday	
Apr 24, Tuesday	
Apr 25, Wednesday	
Apr 26, Thursday	
Apr 27, Friday	
Apr 28, Saturday	Assignment and test of group 15,16 and 17

Lesson Plan

Name of the Assistant Professor: Ms.Garima Dhiman

Class: B.Sc. Biotechnology IV Sem

Name of Subject: Organic chemistry

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	Infrared (IR) absorption spectroscopy: Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands,
Jan 9, Tuesday	
Jan 10, Wednesday	
Jan 11, Thursday	
Jan 12, Friday	
Jan 13, Saturday	
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	Measurement of IR spectrum, fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds.
Jan 16, Tuesday	
Jan 17, Wednesday	
Jan 18, Thursday	
Jan 19, Friday	Applications of IR spectroscopy in structure elucidation of simple organic compounds and Revision
Jan 20, Saturday	
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	
Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	Assignment and Test of IR
Jan 30, Tuesday	
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	
Feb 2, Friday	Amines: Structure and nomenclature of amines, physical properties. Separation of a mixture of primary, secondary and tertiary amines.
Feb 3, Saturday	

Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	Structural features affecting basicity of amines. Preparation of alkyl and aryl amines (reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds).
Feb 6, Tuesday	
Feb 7, Wednesday	
Feb 8, Thursday	
Feb 9, Friday	Gabrielphthalimide reaction, Hofmann bromamide reaction. electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	Assignment and test of Amines
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	
Feb 15, Thursday	
Feb 16, Friday	Diazonium Salts Mechanism of diazotisation, structure of benzene diazonium chloride, Replacement of diazo group by H, OH, F, Cl, Br, I, NO ₂ and CN groups,
Feb 17, Saturday	
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	Rreduction of diazonium salts to hyrazines, coupling reaction and its synthetic application and Revision
Feb 20, Tuesday	
Feb 21, Wednesday	
Feb 22, Thursday	
Feb 23, Friday	Nitro Compounds: Preparation of nitro alkanes and nitro arenes and their chemical reactions.
Feb 24, Saturday	
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	Mechanism of electrophilic substitution reactions in nitro arenes and their reductions in acidic, neutral and alkaline medium.
Feb 27, Tuesday	
Feb 28, Wednesday	
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
<i>Vacation</i>	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	Assignment and test of nitro compounds
Mar 6, Tuesday	
Mar 7, Wednesday	
Mar 8, Thursday	
Mar 9, Friday	Aldehydes and Ketones: Nomenclature and structure of the carbonyl group. Synthesis of aldehydes and ketones with particular reference to the

	synthesis of aldehydes from acid chlorides
Mar 10, Saturday	
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	Advantage of oxidation of alcohols with chromium trioxide (Sarett reagent)
Mar 13, Tuesday	
Mar 14, Wednesday	
Mar 15, Thursday	
Mar 16, Friday	pyridinium chlorochromate (PCC) and pyridinium dichromate. Physical properties.
Mar 17, Saturday	
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	Comparison of reactivities of aldehydes and ketones.
Mar 20, Tuesday	
Mar 21, Wednesday	
Mar 22, Thursday	
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	Mechanism of nucleophilic additions to carbonyl group with particular emphasis on benzoin, aldol, Perkin and Knoevenagel condensations.
Mar 27, Tuesday	
Mar 28, Wednesday	
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	
Mar 31, Saturday	
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	Condensation with ammonia and its derivatives. Wittig reaction. Mannich reaction. Oxidation of aldehydes, Baeyer–Villiger oxidation of ketones,
Apr 3, Tuesday	
Apr 4, Wednesday	
Apr 5, Thursday	
Apr 6, Friday	Cannizzaro reaction. MPV, Clemmensen, Wolff-Kishner, LiAlH ₄ and NaBH ₄ reductions.
Apr 7, Saturday	
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	Assignment on name reactions of aldehydes and ketones
Apr 10, Tuesday	
Apr 11, Wednesday	
Apr 12, Thursday	
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	

Apr 16, Monday	Revision of IR
Apr 17, Tuesday	
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	
Apr 20, Friday	Revision of Amines
Apr 21, Saturday	
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	Revision of diazonium and nitro compounds
Apr 24, Tuesday	
Apr 25, Wednesday	
Apr 26, Thursday	
Apr 27, Friday	Revision of aldehyde and ketones
Apr 28, Saturday	

Lesson Plan

Name of the Assistant Professor: Ms.Garima Dhiman

Class: B.Sc. Biotechnology VI Sem

Name of Subject: Physical Chemistry

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	Electronic Spectrum: Concept of potential energy curves for bonding and antibonding molecular orbitals,
Jan 9, Tuesday	Qualitative description of selection rules, Franck- Condon principle.
Jan 10, Wednesday	
Jan 11, Thursday	
Jan 12, Friday	
Jan 13, Saturday	
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	Qualitative description of sigma and pie and n molecular orbital (MO) their energy, level and respective transitions. Photochemistry: Interaction of radiation with matter
Jan 16, Tuesday	Difference between thermal and photochemical processes,photochemical Laws of photochemistry: Grotthus-Drapper law, Stark- Einstein law (law of equivalence)
Jan 17, Wednesday	
Jan 18, Thursday	
Jan 19, Friday	
Jan 20, Saturday	
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	Jablonski diagram depicting, various processes occurring in the excited state .Qualitative description of fluorescence, phosphorescence, non-radiative processes (internal conversion, intersystem crossing)
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>

Jan 25, Thursday	
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	
Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	Assignment and test of electronic spectra
Jan 30, Tuesday	Quantum yield, photosensitized reactions-energy transfer processes (simple examples).
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	
Feb 2, Friday	
Feb 3, Saturday	
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	Revision of Photochemistry
Feb 6, Tuesday	Assignment and test of photochemistry
Feb 7, Wednesday	
Feb 8, Thursday	
Feb 9, Friday	
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	Solutions: Dilute Solutions and Colligative Properties Ideal and non-ideal solutions, methods of expressing concentrations of solutions,
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	
Feb 15, Thursday	
Feb 16, Friday	
Feb 17, Saturday	
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	Activity and activity coefficient. Dilute solution, Colligative properties, Raoult's law,
Feb 20, Tuesday	relative lowering of vapour pressure, molecular weight determination, Osmosis law of osmotic pressure and its

	measurement,
Feb 21, Wednesday	
Feb 22, Thursday	
Feb 23, Friday	
Feb 24, Saturday	
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	determination of molecular weight from osmotic pressure. Elevation of boiling point Depression of freezing point,
Feb 27, Tuesday	Thermodynamic derivation of relation between molecular weight and elevation in boiling point and depression in freezing point
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	Experimental methods for determining various colligative properties.
Mar 6, Tuesday	Abnormal molar mass, degree of dissociation and association of solutes.
Mar 7, Wednesday	
Mar 8, Thursday	
Mar 9, Friday	
Mar 10, Saturday	
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	Assignment and test of Elevation of boiling point depression of freezing point, Thermodynamic derivation of relation between molecular weight and elevation in boiling point and depression in freezing point
Mar 13, Tuesday	Phase Equilibrium: Statement and meaning of the terms – phase component and degree of freedom,
Mar 14, Wednesday	

Mar 15, Thursday	
Mar 16, Friday	
Mar 17, Saturday	
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	Thermodynamic derivation of Gibbs phase rule, phase equilibria of one component system –Example – water and Sulphur systems.
Mar 20, Tuesday	
Mar 21, Wednesday	
Mar 22, Thursday	
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	Phase equilibria of two component systems solid-liquid equilibria, simple eutectic Example Pb-Ag system, desilverisation of lead
Mar 27, Tuesday	Revision of Phase equilibria
Mar 28, Wednesday	
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	
Mar 31, Saturday	
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	Assignment and test of one component and two component system
Apr 3, Tuesday	Revision of electronic spectrum
Apr 4, Wednesday	
Apr 5, Thursday	
Apr 6, Friday	
Apr 7, Saturday	
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	Test of electronic spectrum
Apr 10, Tuesday	Revision of photochemistry
Apr 11, Wednesday	

Apr 12, Thursday	
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	Test of photochemistry
Apr 17, Tuesday	Revision of solutions
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	
Apr 20, Friday	
Apr 21, Saturday	
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	Test of solutions
Apr 24, Tuesday	Revision of phase equilibrium
Apr 25, Wednesday	
Apr 26, Thursday	
Apr 27, Friday	
Apr 28, Saturday	

Lesson Plan

Name of the Assistant Professor :Ms. Garima Dhiman

Class: B.Sc. Biotechnology II Sem

Name of Subject: Physical chemistry

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	Rate of reaction, rate equation, factors influencing the rate of a reaction – concentration, temperature, pressure, solvent, light, catalyst.
Jan 9, Tuesday	Order of a reaction, integrated rate expression for zero order, first order,
Jan 10, Wednesday	
Jan 11, Thursday	
Jan 12, Friday	
Jan 13, Saturday	
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	Second and third order reaction. Half-life period of a reaction.
Jan 16, Tuesday	Methods of determination of order of reaction, Revision and Assignment of order of reaction and determination
Jan 17, Wednesday	
Jan 18, Thursday	
Jan 19, Friday	
Jan 20, Saturday	
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	Effect of temperature on the rate of reaction – Arrhenius equation Theories of reaction rate – Simple collision theory for unimolecular and bimolecular collision.
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	

Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	Transition state theory of Bimolecular reactions.
Jan 30, Tuesday	Revision of Kinetics II and Assignment of Theories of reaction rate
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	
Feb 2, Friday	
Feb 3, Saturday	
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	Test of Kinetics II
Feb 6, Tuesday	Test of Kinetics I and II
Feb 7, Wednesday	
Feb 8, Thursday	
Feb 9, Friday	
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	Electrolytic conduction, factors affecting electrolytic conduction
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	
Feb 15, Thursday	
Feb 16, Friday	
Feb 17, Saturday	
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	Specific, conductance, molar conductance, equivalent conductance and relation among them, their variation with concentration.
Feb 20, Tuesday	Arrhenius theory of ionization
Feb 21, Wednesday	
Feb 22, Thursday	
Feb 23, Friday	
Feb 24, Saturday	
Feb 26, 2018 to Mar 3, 2018 (Week 9)	

Feb 26, Monday	Ostwald's Dilution Law. Debye- Huckel – Onsager's equation for strong electrolytes (elementary treatment only)
Feb 27, Tuesday	Assignment and test of Arrhenius theory of ionization and Debye- Huckel
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Test	
Assignment	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	Transport number, definition and determination by Hittorfs methods, (numerical included),
Mar 6, Tuesday	Numerical discussion
Mar 7, Wednesday	
Mar 8, Thursday	
Mar 9, Friday	
Mar 10, Saturday	
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	Test of electrochemistry I
Mar 13, Tuesday	Kohlrausch's Law, calculation of molar ionic conductance and effect of viscosity temperature & pressure on it.
Mar 14, Wednesday	
Mar 15, Thursday	
Mar 16, Friday	
Mar 17, Saturday	
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	Application of Kohlrausch's Law in calculation of conductance of weak electrolytes at infinite dilution.
Mar 20, Tuesday	Applications of conductivity measurements: determination of degree of dissociation
Mar 21, Wednesday	

Mar 22, Thursday	
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	Determination of K_a of acids determination of solubility product of sparingly soluble salts, conductometric titrations.
Mar 27, Tuesday	Test of Kohlrausch's Law and application of conductivity measurement
Mar 28, Wednesday	
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	
Mar 31, Saturday	
Test	
Assignment	
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	Definition of pH and pKa, Buffer solution, Buffer action
Apr 3, Tuesday	Assignment and test of buffers
Apr 4, Wednesday	
Apr 5, Thursday	
Apr 6, Friday	
Apr 7, Saturday	
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	Henderson – Hazel equation, Buffer mechanism of buffer action.
Apr 10, Tuesday	Test of electrochemistry II
Apr 11, Wednesday	
Apr 12, Thursday	
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	Revision of electrochemistry I and II

Apr 17, Tuesday	Revision of Kinetics
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	
Apr 20, Friday	
Apr 21, Saturday	
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	Test of Kinetics
Apr 24, Tuesday	Test of electrochemistry
Apr 25, Wednesday	
Apr 26, Thursday	
Apr 27, Friday	
Apr 28, Saturday	

Lesson Plan

Name of the Assistant Professor: Dr. Kshipra Kapil

Class: B.Sc. Biotechnology IV Sem

Name of Subject: Animal Diversity II

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	Proto-chordates: Outline of classification, General features and important characters of Herdmania,
Jan 9, Tuesday	General features and important characters of Branchiostoma
Jan 10, Wednesday	-
Jan 11, Thursday	Assignment and test of protochordates
Jan 12, Friday	Origin of Chordate
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	Origin of Chordate
Jan 16, Tuesday	Pisces: Migration
Jan 17, Wednesday	-
Jan 18, Thursday	Pisces: Migration
Jan 19, Friday	Pisces: Outline of classification
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	Pisces: Outline of classification
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	Test of origin of chordates
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-
Jan 29, 2018 to Feb 3, 2018 (Week 5)	

Jan 29, Monday	Amphibia: Classification
Jan 30, Tuesday	Amphibia: Classification
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	Amphibia: Origin
Feb 2, Friday	Amphibia: Origin
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	Amphibia: Parental care, Paedogenesis
Feb 6, Tuesday	Amphibia: Parental care, Paedogenesis
Feb 7, Wednesday	-
Feb 8, Thursday	Assignment and test of Pisces
Feb 9, Friday	Reptelia: Classification
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	Reptelia: Classification
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	Assignment and test of Amphibia
Feb 16, Friday	Reptelia: Origin
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	Reptelia: Origin
Feb 20, Tuesday	Aves: Classification
Feb 21, Wednesday	-
Feb 22, Thursday	Aves: Classification
Feb 23, Friday	Aves: Origin,
Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	Aves: flight- adaptations,

Feb 27, Tuesday	Assignment and test of Reptelia
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	Aves: migration
Mar 6, Tuesday	Assignment and test of Aves
Mar 7, Wednesday	-
Mar 8, Thursday	Mammalia: Classification
Mar 9, Friday	Mammalia: Classification
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	Mammalia: Origin
Mar 13, Tuesday	Mammalia: dentition
Mar 14, Wednesday	-
Mar 15, Thursday	Assignment and test of mammalia
Mar 16, Friday	Comparative anatomy of various systems of vertebrates: Integumentary system
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	Comparative anatomy of various systems of vertebrates: Integumentary system
Mar 20, Tuesday	Comparative anatomy of various systems of vertebrates: Integumentary, system
Mar 21, Wednesday	-
Mar 22, Thursday	Comparative anatomy of various systems of vertebrates: digestive system
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	Comparative anatomy of various systems of vertebrates: digestive system

Mar 27, Tuesday	Comparative anatomy of various systems of vertebrates: respiratory systems.
Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	Comparative anatomy of various systems of vertebrates: respiratory systems.
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	Assignment and test of Comparative anatomy of vertebrates I
Apr 3, Tuesday	Comparative Anatomy of vertebrates – Heart, Aortic arches
Apr 4, Wednesday	-
Apr 5, Thursday	Comparative Anatomy of vertebrates – Heart, Aortic arches
Apr 6, Friday	Comparative Anatomy of vertebrates –Kidney & urino- genital system
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	Comparative Anatomy of vertebrates –Kidney & urino- genital system
Apr 10, Tuesday	Comparative Anatomy of vertebrates –Brain
Apr 11, Wednesday	-
Apr 12, Thursday	Comparative Anatomy of vertebrates –Brain,
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar’s Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	Comparative Anatomy of vertebrates –Eye
Apr 17, Tuesday	Comparative Anatomy of vertebrates –Ear
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	Assignment and test of comparative anatomy of Heart, Kidney and urino-genital system
Apr 20, Friday	Assignment and test of comparative anatomy of brain
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	Assignment and test of comparative anatomy of Eye and ear

Apr 24, Tuesday	Revision of Pisces and Ambhibia
Apr 25, Wednesday	-
Apr 26, Thursday	Revision of Reptelia and Aves
Apr 27, Friday	Revision of Mammalia and comparative anatomy of vertebrates I
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor: Dr. Kshipra Kapil

Class: B.Sc. Biotechnology II Sem

Name of Subject: Genetics

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	Introduction: Historical developments in the field of genetics, Organisms suitable for genetic experimentation and their genetic significance.
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	Cell Cycle: Mitosis and Meiosis
Jan 11, Thursday	Control points in cell-cycle progression in yeast.
Jan 12, Friday	Role of meiosis in life cycle.
Jan 13, Saturday	Mendelian genetics : Mendel's experimental design
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	Monohybrid, di-hybrid and tryhybrid crosses
Jan 18, Thursday	Law of segregation
Jan 19, Friday	Principle of independent assortment
Jan 20, Saturday	Verification of segregates by test and back cross
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	Chromosome theory of inheritance
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	Allelic interactions: Concept of dominance, recessiveness
Jan 29, 2018 to Feb 3, 2018 (Week 5)	

Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	Incomplete dominance, co-dominance, semi-dominance
Feb 2, Friday	Pleiotropy, multiple allele
Feb 3, Saturday	Pseudoallele, essential and lethal genes, penetrance and expressivity
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	Assignment and test of mendelian genetics
Feb 8, Thursday	Non allelic interactions: Interaction producing new phenotype complementary genes Epistasis (dominant & recessive), duplicate genes and inhibitory genes.
Feb 9, Friday	Chromosome and genomic organization: Eukaryotic nuclear genome-nucleotide sequence composition –unique & repetitive DNA
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	Satellite DNA. Centromere and telomere DNA sequences
Feb 15, Thursday	Middle repetitive sequences- VNTRs & dinucleotide repeats
Feb 16, Friday	Repetitive transposed sequences- SINEs & LINEs
Feb 17, Saturday	Middle repetitive multiple copy genes, noncoding DNA.
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	Genetic organization of prokaryotic and viral genome. Structure and characteristics of bacterial chromosome
Feb 22, Thursday	Structure and characteristics of eukaryotic chromosome- chromosome morphology, concept of euchromatin and heterochromatin
Feb 23, Friday	packaging of DNA molecule into chromosomes, chromosome banding pattern, karyotype, giant chromosomes

Feb 24, Saturday	one gene one polypeptide hypothesis, concept of cistron, exons, introns, genetic code, gene function
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	Assignment and test of chromosome and genomic organization
Mar 8, Thursday	Chromosome and gene mutations: Definition and types of mutations causes of mutations, Ames test for mutagenic agents
Mar 9, Friday	Screening procedures for isolation of mutants and uses of mutants
Mar 10, Saturday	Variations in chromosomes structure - deletion, duplication
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	Variations in chromosomes structure - inversion and translocation (reciprocal and Robertsonian)
Mar 15, Thursday	Position effects of gene expression, chromosomal aberrations in human beings
Mar 16, Friday	Abnormalities– Aneuploidy and Euploidy
Mar 17, Saturday	Sex determination and sex linkage : Mechanisms of sex determination
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	Environmental factors and sex determination, sex differentiation
Mar 22, Thursday	Barr bodies,

Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	Dosage compensation
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-
Mar 28, Wednesday	Genetic balance theory, Fragile-X-syndrome and chromosome,
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	Sex influenced dominance, sex limited gene expression, sex linked inheritance.
Mar 31, Saturday	Assignment and test of mutation and sex linked inheritance
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	Genetic linkage, crossing over and chromosome mapping: Linkage and recombination of genes in a chromosome crossing over,
Apr 5, Thursday	Cytological basis of crossing over, Molecular mechanism of crossing over, Crossing over at four- strand stage, Multiple crossing overs Genetic mapping
Apr 6, Friday	Crossing over at four- strand stage, Multiple crossing overs Genetic mapping
Apr 7, Saturday	Extra chromosomal inheritance: Rules of extra nuclear inheritance, maternal effects,
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	
Apr 11, Wednesday	Maternal inheritance, cytoplasmic inheritance, organelle heredity, genomic imprinting
Apr 12, Thursday	Evolution and population genetics: Inbreeding and out breeding, Hardy Weinberg law assumption, (prediction, derivation), allelic and genotype frequencies,
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	-

Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	Changes in allelic frequencies, systems of mating, evolutionary genetics, natural selection.
Apr 20, Friday	Assignment and test of Genetic linkage, crossing over and chromosome mapping:
Apr 21, Saturday	Assignment and test of Extra chromosomal inheritance:
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	Assignment and test of Evolution and population genetics:
Apr 26, Thursday	Revision of mendelian genetics
Apr 27, Friday	Revision of genomic and chromosome organization
Apr 28, Saturday	Revision of Mutation

Lesson Plan

Name of the Assistant Professor: Dr. Kshipra Kapil

Class: B.Sc. Biotechnology II Sem

Name of Subject: Genetics Practical

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	Practical Group 1: Permanent and temporary mount of mitosis.
Jan 9, Tuesday	Practical Group 2: Permanent and temporary mount of mitosis.
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	-
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	Practical Group 1: Permanent and temporary mount of mitosis.
Jan 16, Tuesday	Practical Group 2: Permanent and temporary mount of mitosis.
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	-
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	Practical Group 2: Permanent and temporary mount of meiosis.
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	Chromosome theory of inheritance
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-
Jan 29, 2018 to Feb 3, 2018 (Week 5)	

Jan 29, Monday	Practical Group 1: Permanent and temporary mount of meiosis.
Jan 30, Tuesday	Practical Group 2: Permanent and temporary mount of meiosis.
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	-
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	Practical Group 1: Permanent and temporary mount of meiosis.
Feb 6, Tuesday	Practical Group 2: Permanent and temporary mount of meiosis.
Feb 7, Wednesday	-
Feb 8, Thursday	-
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	Practical Group 1: Permanent and temporary mount of meiosis.
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	-
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	Practical Group 1: Mendelian deviations in dihybrid crosses
Feb 20, Tuesday	Practical Group 2: Mendelian deviations in dihybrid crosses
Feb 21, Wednesday	-
Feb 22, Thursday	-
Feb 23, Friday	-
Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	Practical Group 1: Mendelian deviations in dihybrid crosses

Feb 27, Tuesday	Practical Group 2: Mendelian deviations in dihybrid crosses
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	Practical Group 1: Demonstration of - Barr Bod -Rhoeo translocation.
Mar 6, Tuesday	Practical Group 2: Demonstration of - Barr Bod -Rhoeo translocation.
Mar 7, Wednesday	-
Mar 8, Thursday	-
Mar 9, Friday	-
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	Practical Group 1: Demonstration of - Barr Bod -Rhoeo translocation.
Mar 13, Tuesday	Practical Group 2: Demonstration of - Barr Bod -Rhoeo translocation.
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	-
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	Practical Group 1: Karyotyping with the help of photographs
Mar 20, Tuesday	Practical Group 2: Karyotyping with the help of photographs
Mar 21, Wednesday	-
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	Practical Group 1: Karyotyping with the help of photographs
Mar 27, Tuesday	Practical Group 2: Karyotyping with the help of photographs

Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	Practical Group 1: Lab record and revision
Apr 3, Tuesday	Practical Group 2: Lab record and revision
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	-
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	Practical Group 1: Lab record and revision
Apr 10, Tuesday	Practical Group 2: Lab record and revision
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	Practical Group 1: Revision
Apr 17, Tuesday	Practical Group 2: Revision
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	-
Apr 20, Friday	-
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	Practical Group 1: Revision
Apr 24, Tuesday	Practical Group 2: Revision
Apr 25, Wednesday	-

Apr 26, Thursday	-
Apr 27, Friday	-
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor: Dr. Kshipra Kapil

Class: B.Sc. Biotechnology IV Sem

Name of Subject: Animal Diversity II Practical

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	Practical Group 1: Identification & Classification up to order of the following: Proto-chordata: Salpa, Doliolum, Herdmania, Branchiostoma; Cyclostomata: Myxine, Petromyzon
Jan 11, Thursday	Practical Group 2: Identification & Classification up to order of the following: Proto-chordata: Salpa, Doliolum, Herdmania, Branchiostoma; Cyclostomata: Myxine, Petromyzon
Jan 12, Friday	-
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	Practical Group 1: Chondrichthyes: Scoliodon, Zygnea, Pristis, Trygon, Raja, Chimaera Lophius, Polypeterus
Jan 18, Thursday	Practicals Group 2: Chondrichthyes: Scoliodon, Zygnea, Pristis, Trygon, Raja, Chimaera Lophius, Polypeterus
Jan 19, Friday	-
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	Practical Group 2: Amphibia: Rana, Hyla, Amblystoma, Necturus, Proteus.

Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-
Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	Practical Group 2: Reptiles: Hemidactylus, Calotes, Draco,
Feb 2, Friday	-
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	Practical Group 1: Amphibia: Rana, Hyla, Amblystoma, Necturus, Proteus.
Feb 8, Thursday	Practical Group 2: Reptiles: Phrynosoma, Naja Vipera, Bungarus
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	Practical Group 1: Reptiles: Hemidactylus, Calotes, Draco,
Feb 15, Thursday	Practical Group 2: Aves: Columba, Alcedo, Passer
Feb 16, Friday	-
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	Practical Group 1: Reptiles: Phrynosoma, Naja Vipera, Bungarus
Feb 22, Thursday	Practical Group 2: Mammalia: Ornithorhynchus, Macropus, Didelphes, Dasyopus

Feb 23, Friday	-
Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	Practical Group 1: Mammalia: Ornithorhynchus, Macropus, Didelphes, Dasybus
Mar 8, Thursday	Practical Group 2: An Ecological Note on any one of the specimens in Experiment 1
Mar 9, Friday	-
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	Practical Group 1: An Ecological Note on any one of the specimens in Experiment 1
Mar 15, Thursday	Practical Group 2: Identification of the following slides, Mammalian Histology: Liver, Lung,
Mar 16, Friday	-
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	Practical Group 1: Identification of the following slides, Mammalian Histology: Liver, Lung,

Mar 22, Thursday	Practical Group 2: Identification of the following slides Mammalian Histology: Intestine, Kidney, Ovary, Testes Salpa,
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-
Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	Practical Group 1: Identification of the following slides Mammalian Histology: Intestine, Kidney, Ovary, Testes Salpa,
Apr 5, Thursday	Practical Group 2: Mammalian Histology: Doliolum, Spicules of Herdmania, Tadpole of Frog
Apr 6, Friday	-
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	Practical Group 1: Mammalian Histology: Doliolum, Spicules of Herdmania, Tadpole of Frog and Preparation of a permanent mount of Salpa, Placoid scales, spicules of Herdmania, Pharynx of Amphioxus, Tadpole Larva of frog
Apr 12, Thursday	Practical Group 2: Preparation of a permanent mount of Salpa, Placoid scales, spicules of Herdmania, Pharynx of Amphioxus, Tadpole Larva of frog
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-

Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	Practical Group 2: Identification of endoskeletons of frog and rabbit
Apr 20, Friday	-
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	Practical Group 1: Identification of endoskeletons of frog and rabbit
Apr 26, Thursday	Practical Group 2 : Revision
Apr 27, Friday	-
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor: Dr. Kshipra Kapil

Class: B.Sc. Biotechnology VI Sem

Name of Subject: Plant Biotechnology & Environmental Biotechnology

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	Introduction to <i>in vitro</i> methods.
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	Terms and definitions, Use of growth regulators
Jan 9, Tuesday	-
Jan 10, Wednesday	-
Jan 11, Thursday	Embryo culture, Embryo rescue after wide hybridization and its applications
Jan 12, Friday	Introduction to the processes of embryogenesis and its application
Jan 13, Saturday	Introduction to the processes of embryogenesis and organogenesis and their practical applications.
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	Clonal multiplication of lite species (Micropropagation) axillary bud, shoot-tip and meristem culture
Jan 16, Tuesday	-
Jan 17, Wednesday	-
Jan 18, Thursday	Clonal multiplication of lite species (Micropropagation) shoot-tip
Jan 19, Friday	Clonal multiplication of lite species (Micropropagation) meristem culture
Jan 20, Saturday	Clonal multiplication of lite species (Micropropagation) meristem culture
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	Haploids and their applications
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	Haploids and their applications

Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	Somaclonal variations and applications.
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	Somaclonal variations and applications.
Feb 2, Friday	Assignment and test of micropropagation
Feb 3, Saturday	Endosperm culture and production of triploids.
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	Endosperm culture and production of triploids.
Feb 6, Tuesday	-
Feb 7, Wednesday	-
Feb 8, Thursday	Test of Haploids and somaclonal variation
Feb 9, Friday	Single –cell suspension cultures
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	Single –cell suspension cultures
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	Introduction to protoplast isolation: Principles and applications
Feb 16, Friday	Introduction to protoplast isolation: Principles and applications
Feb 17, Saturday	Various steps in the regeneration of protoplasts.
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	Various steps in the regeneration of protoplasts.
Feb 20, Tuesday	-
Feb 21, Wednesday	-
Feb 22, Thursday	Somatic hybridization – an introduction
Feb 23, Friday	Somatic hybridization – an introduction.

Feb 24, Saturday	Use of markers for selection of hybrid cells.
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	Practical applications of somatic hybridization (hybrids vs cybrids).
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	Assignment and test of protoplast isolation and somatic hybridization
Mar 6, Tuesday	-
Mar 7, Wednesday	-
Mar 8, Thursday	
Mar 9, Friday	Microbiological quality of food
Mar 10, Saturday	Microbiological quality of food
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	Microbiological quality of food and water.
Mar 13, Tuesday	-
Mar 14, Wednesday	-
Mar 15, Thursday	Microbiological quality of water.
Mar 16, Friday	Microbiological quality of water.
Mar 17, Saturday	Treatment of municipal waste
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	Treatment of municipal waste
Mar 20, Tuesday	-
Mar 21, Wednesday	-
Mar 22, Thursday	Treatment of industries effluents
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	Treatment of industries effluents

Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	Degradation of pesticides and by microorganisms (Bioremediation).
Mar 27, Tuesday	-
Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	Degradation of pesticides and by microorganisms (Bioremediation).
Mar 31, Saturday	Degradation of other toxic chemicals by microorganisms (Bioremediation).
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	Degradation of other toxic chemicals by microorganisms (Bioremediation).
Apr 3, Tuesday	-
Apr 4, Wednesday	-
Apr 5, Thursday	Degradation of other toxic chemicals by microorganisms (Bioremediation).
Apr 6, Friday	Assignment and test of Bioremediation
Apr 7, Saturday	Thuringiensis toxin as a natural pesticide.
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	Biological control of other insects swarming the agricultural fields.
Apr 10, Tuesday	-
Apr 11, Wednesday	-
Apr 12, Thursday	Enrichment of ores by microorganisms.
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	Biofertilizers
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	Nitrogen fixing microorganisms enrich the soil with assimilable nitrogen.

Apr 20, Friday	Assignment and test of Biofertilizer
Apr 21, Saturday	Revision of Bioremediation
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	Revision of Enrichment of ores by microorganisms.
Apr 24, Tuesday	-
Apr 25, Wednesday	-
Apr 26, Thursday	Revision of Somatic hybridization
Apr 27, Friday	Revision of Biofertilizer
Apr 28, Saturday	Revision of Nitrogen fixation

Lesson Plan

Name of the Assistant Professor: Dr. Kshipra Kapil

Class: B.Sc. Biotechnology VI Sem

Name of Subject: Plant Biotechnology & Environmental Biotechnology Practical

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	Practical Group 2: Preparation of simple growth nutrient (knop's medium), full strength, half strength, solid and liquid.
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	Practical Group 1: Preparation of simple growth nutrient (knop's medium), full strength, half strength, solid and liquid.
Jan 13, Saturday	Practical Group 2: Preparation of simple growth nutrient (knop's medium), full strength, half strength, solid and liquid.
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	Practical Group 1: Preparation of simple growth nutrient (knop's medium), full strength, half strength, solid and liquid.
Jan 20, Saturday	Practical Group 2: Preparation of complex nutrient medium (Murashige & Skoog's medium)
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	Practical Group 2: Preparation of complex nutrient medium (Murashige &

	Skoog's medium)
Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	Practical Group 1: Preparation of complex nutrient medium (Murashige & Skoog's medium)
Feb 3, Saturday	Practical Group 2: To selection, Prune, sterilize and prepare an explant for culture.
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	-
Feb 8, Thursday	-
Feb 9, Friday	Practical Group 1: To selection, Prune, sterilize and prepare an explant for culture.
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	Practical Group 1: To selection, Prune, sterilize and prepare an explant for culture.
Feb 17, Saturday	Practical Group 2: To selection, Prune, sterilize and prepare an explant for culture.
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	-
Feb 22, Thursday	-

Feb 23, Friday	Practical Group 1: To selection, Prune, sterilize and prepare an explant for culture.
Feb 24, Saturday	Practical Group 2: To selection, Prune, sterilize and prepare an explant for culture.
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	-
Mar 8, Thursday	-
Mar 9, Friday	Practical Group 1: Significance of growth hormones in culture medium.
Mar 10, Saturday	Practical Group 2: Significance of growth hormones in culture medium.
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	Practical Group 1: To demonstrate various steps of Micropropagation.
Mar 17, Saturday	Practical Group 2: Significance of growth hormones in culture medium.
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	-
Mar 22, Thursday	-

Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	Practical Group 2: To demonstrate various steps of Micropropagation.
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-
Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	Practical Group 1: Calculation of Total Dissolved Solids (TDS) of water sample.
Mar 31, Saturday	Practical Group 2: To demonstrate various steps of Micropropagation.
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	Practical Group 1: Calculation of BOD & COD of water sample.
Apr 7, Saturday	Practical Group 2: Calculation of Total Dissolved Solids (TDS) of water sample.
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	

Apr 20, Friday	Practical Group 1: Revision
Apr 21, Saturday	Practical Group 2: Calculation of BOD & COD of water sample.
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	-
Apr 26, Thursday	-
Apr 27, Friday	Practical Group 1: Revision
Apr 28, Saturday	Practical Group 2:Revision

Lesson Plan

Name of the Assistant Professor: Dr. Neha Shekhawat

Class: B.Sc. Biotechnology II Sem

Name of Subject: Biostatistics

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	Relations between roots and coefficients of algebraic equations
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	Solution of cubic equations Permutation and Combination
Jan 9, Tuesday	Solution of cubic equations Permutation and Combination
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	Solution of cubic equations Permutation and Combination
Jan 13, Saturday	Binomial theorem of integer
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	Binomial theorem of integer
Jan 16, Tuesday	Binomial theorem of integer
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	Logarithm (definition and laws of logarithm, use of log table),
Jan 20, Saturday	Logarithm (definition and laws of logarithm, use of log table),
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	Logarithm (definition and laws of logarithm, use of log table),
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	Trigonometric Identities
Jan 29, 2018 to Feb 3, 2018 (Week 5)	

Jan 29, Monday	Trigonometric Identities
Jan 30, Tuesday	Matrices and their elementary operations.
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	Assignment and test of Binomial theorem of integer
Feb 3, Saturday	Functions
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	Functions
Feb 6, Tuesday	Limits of functions (basic idea of limits of functions without analytic definition)
Feb 7, Wednesday	-
Feb 8, Thursday	-
Feb 9, Friday	Limits of functions (basic idea of limits of functions without analytic definition)
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	Derivatives of functions
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	Derivatives of functions
Feb 17, Saturday	Differentiation
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	Differentiation
Feb 20, Tuesday	Integration
Feb 21, Wednesday	-
Feb 22, Thursday	-
Feb 23, Friday	Integration
Feb 24, Saturday	Integration
Feb 26, 2018 to Mar 3, 2018 (Week 9)	

Feb 26, Monday	Applications of Differentiation and Integration
Feb 27, Tuesday	Applications of Differentiation and Integration
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	Assignment and test of Differentiation and integration
Mar 6, Tuesday	Types of Data, Collection of data
Mar 7, Wednesday	-
Mar 8, Thursday	-
Mar 9, Friday	Primary & Secondary data
Mar 10, Saturday	Classification and Graphical representation of Statistical data
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	Measures of central tendency
Mar 13, Tuesday	Measures of Dispersion
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	Measures of Skewness
Mar 17, Saturday	Measures of Kurtosis
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	Probability (classical & axiomatic definition of probability, Theorems on total and compound probability)
Mar 20, Tuesday	Probability (classical & axiomatic definition of probability, Theorems on total and compound probability)
Mar 21, Wednesday	-
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	Elementary ideas of Binomial
Mar 26, 2018 to Mar 31, 2018 (Week 13)	

Mar 26, Monday	Poisson and Normal distributions
Mar 27, Tuesday	Assignment and test of Probability
Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	Methods of sampling,
Mar 31, Saturday	Confidence level
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	Critical region
Apr 3, Tuesday	Testing of hypothesis and standard error
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	Large sample test and small sample test.
Apr 7, Saturday	Problems on test of significance
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	t-test
Apr 10, Tuesday	chi-square test for goodness of fit
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	Analysis of variance (ANOVA)
Apr 17, Tuesday	Assignment and test of Problems on test of significance
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	-
Apr 20, Friday	Revision of Measures of Skewness and Kurtosis
Apr 21, Saturday	Revision of Probability (classical & axiomatic definition of probability, Theorems on total and compound probability)
Apr 23, 2018 to Apr 28, 2018 (Week 17)	

Apr 23, Monday	Revision of t-test
Apr 24, Tuesday	Revision of chi-square test for goodness of fit
Apr 25, Wednesday	-
Apr 26, Thursday	-
Apr 27, Friday	Revision of analysis of variance (ANOVA)
Apr 28, Saturday	Revision of Elementary ideas of Binomial

Lesson Plan

Name of the Assistant Professor: Dr. Neha Shekhawat

Class: B.Sc. Biotechnology II Sem

Name of Subject: Biostatistics Practical

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	Practical Group 1: Based on graphical Representation
Jan 11, Thursday	Practical Group 2: Based on graphical Representation
Jan 12, Friday	-
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	Practical Group 1: Based on measures of Central Tendency
Jan 18, Thursday	Practical Group 2: Based on measures of Central Tendency
Jan 19, Friday	-
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	Practical Group 2: Based on measures of Central Tendency
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-
Jan 29, 2018 to Feb 3, 2018 (Week 5)	

Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	Practical Group 2: Based on measures of Dispersion
Feb 2, Friday	-
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	Practical Group 1: Based on measures of Central Tendency
Feb 8, Thursday	Practical Group 2: Based on measures of Dispersion
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	Practical Group 1: Based on measures of Dispersion
Feb 15, Thursday	Practical Group 2: Based on Distributions Binomial Poisson Normal
Feb 16, Friday	-
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	Practical Group 1: Based on measures of Dispersion
Feb 22, Thursday	Practical Group 2: Based on t
Feb 23, Friday	-
Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-

Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	Practical Group1: Based on Distributions Binomial Poisson Normal
Mar 8, Thursday	Practical Group 2: Based on F
Mar 9, Friday	-
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	Practical Group1: Based on t
Mar 15, Thursday	Practical Group 2: Based on F
Mar 16, Friday	-
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	Practical Group 1: Based on Z
Mar 22, Thursday	Practical Group 2: Based on Z
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-

Mar 28, Wednesday	Practical Group 1: Based on Chi-square
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	Practical Group 1: Revision
Apr 5, Thursday	Practical Group 2: Based on Chi-square
Apr 6, Friday	-
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	Practical Group 1: Revision
Apr 12, Thursday	Practical Group 2: Revision
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	Practical Group 2: Revision
Apr 20, Friday	-
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	Practical Group 1: Revision

Apr 26, Thursday	Practical Group 2: Revision
Apr 27, Friday	-
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor: Dr. Neha Shekhawat

Class: B.Sc. Biotechnology, IV Sem

Name of Subject: Mammalian physiology

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	Digestion and Respiration: Digestion: Mechanism of digestion
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	Absorption of carbohydrates, Digestion of Proteins
Jan 9, Tuesday	Lipids, Nucleic acids
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	Composition of bile
Jan 13, Saturday	Composition of Saliva
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	Composition of Pancreatic,
Jan 16, Tuesday	Composition of gastric
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	Composition of intestinal juice
Jan 20, Saturday	Respiration: Exchange of gases
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	Transport of O ₂ and CO ₂
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	Oxygen dissociation curve
Jan 29, 2018 to Feb 3, 2018 (Week 5)	

Jan 29, Monday	Chloride shift
Jan 30, Tuesday	Assignment and test of Digestion
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	Assignment and test of Respiration
Feb 3, Saturday	Circulation: Composition of blood
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	Plasma proteins & their role
Feb 6, Tuesday	blood cells
Feb 7, Wednesday	-
Feb 8, Thursday	-
Feb 9, Friday	Haemopoiesis
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	Mechanism of coagulation of blood
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	Mechanism of working of heart: Cardiac output, cardiac cycle
Feb 17, Saturday	Origin & conduction of heart beat
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	Assignment and test of circulation
Feb 20, Tuesday	Assignment and test of mechanism of working of heart
Feb 21, Wednesday	-
Feb 22, Thursday	-
Feb 23, Friday	Muscle physiology and osmoregulation: Structure of cardiac, smooth & skeletal muscle
Feb 24, Saturday	threshold stimulus
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	All or None rule, single muscle twitch

Feb 27, Tuesday	muscle tone, isotonic and isometric contraction
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	Physical, chemical & electrical events of mechanism of muscle contraction
Mar 6, Tuesday	Assignment and test of osmoregulation
Mar 7, Wednesday	-
Mar 8, Thursday	-
Mar 9, Friday	Excretion: modes of excretion
Mar 10, Saturday	Ornithine cycle
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	Assignment and test of muscle physiology
Mar 13, Tuesday	Mechanism of urine formation
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	Assignment and test of osmoregulation
Mar 17, Saturday	Nervous and endocrine coordination: Mechanism of generation & propagation of nerve impulse
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	structure of synapse
Mar 20, Tuesday	synaptic conduction
Mar 21, Wednesday	-
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	saltatory conduction
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	Neurotransmitters

Mar 27, Tuesday	Mechanism of action of hormones (insulin and steroids)
Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	Different endocrine glands– Hypothalamus
Mar 31, Saturday	Pituitary glands
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	Pineal glands, and adrenals,
Apr 3, Tuesday	Thymus glands
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	Thyroid, parathyroid
Apr 7, Saturday	Hypo & hypersecretions
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	Assignment and test of Nervous system
Apr 10, Tuesday	Assignment and test of endocrine system
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	Revision of Digestion
Apr 17, Tuesday	Revision of Respiration
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	-
Apr 20, Friday	Revision of circulation
Apr 21, Saturday	Revision of muscle physiology
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	Revision of osmoregulation
Apr 24, Tuesday	Revision of Nervous system

Apr 25, Wednesday	-
Apr 26, Thursday	-
Apr 27, Friday	Revision of endocrine system
Apr 28, Saturday	Power point presentation

Lesson Plan

Name of the Assistant Professor: Dr. Neha Shekhawat

Class: B.Sc. Biotechnology, IV Sem

Name of Subject: Mammalian physiology Practical

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	Practical Group 2: Finding the coagulation time
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	Practical Group 1: Finding the coagulation time
Jan 13, Saturday	Practical Group 2: Finding the blood groups
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	Practical Group 1: Finding the blood groups
Jan 20, Saturday	Practical Group 2: Finding the blood groups
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	Practical Group 2: Finding the RBC count
Jan 29, 2018 to Feb 3, 2018 (Week 5)	

Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	Practical Group 1: Finding the RBC count
Feb 3, Saturday	Practical Group 2: TLC
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	-
Feb 8, Thursday	-
Feb 9, Friday	Practical Group 1: TLC
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	Practical Group 1: TLC
Feb 17, Saturday	Practical Group 2: TLC
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	-
Feb 22, Thursday	-
Feb 23, Friday	Practical Group 1: DLC
Feb 24, Saturday	Practical Group 2: DLC
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-

Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	-
Mar 8, Thursday	-
Mar 9, Friday	Practical Group 1:DLC
Mar 10, Saturday	Practical Group 2: DLC
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	Practical Group 1: Demonstration of action of an enzyme
Mar 17, Saturday	Practical Group 2: Demonstration of action of an enzyme
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	-
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	Practical Group 2: Demonstration of action of an enzyme
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-

Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	Practical Group 1: Determination of Haemoglobin
Mar 31, Saturday	Practical Group 2: Determination of Haemoglobin
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	-
Apr 7, Saturday	Practical Group 2: Determination of Haemoglobin
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	-
Apr 20, Friday	Practical Group 1: Determination of Haemoglobin
Apr 21, Saturday	Practical Group 2: Revision
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	-

Apr 26, Thursday	-
Apr 27, Friday	Practical Group 1: Revision
Apr 28, Saturday	Practical Group 2: Revisions

Lesson Plan

Name of the Assistant Professor: Dr. Neha Shekhawat

Class: B.Sc. Biotechnology VI Sem

Name of Subject: Animal Biotechnology

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	Gene transfer methods in Animals – Microinjection
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	Gene transfer methods in Animals – Microinjection
Jan 9, Tuesday	Embryonic Stem cell
Jan 10, Wednesday	gene transfer
Jan 11, Thursday	-
Jan 12, Friday	-
Jan 13, Saturday	gene transfer
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	Assignment and test of gene transfer method in animal
Jan 16, Tuesday	Retrovirus & Gene transfer.
Jan 17, Wednesday	Retrovirus & Gene transfer.
Jan 18, Thursday	-
Jan 19, Friday	-
Jan 20, Saturday	Retrovirus & Gene transfer.
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	Test of Retrovirus & Gene transfer.
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	Introduction to transgenesis.
Jan 29, 2018 to Feb 3, 2018 (Week 5)	

Jan 29, Monday	Introduction to transgenesis.
Jan 30, Tuesday	Introduction to transgenesis.
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	-
Feb 3, Saturday	Transgenic Animals – Mice
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	Transgenic Animals – Cow
Feb 6, Tuesday	Transgenic Animals –Pig
Feb 7, Wednesday	Transgenic Animals –Sheep
Feb 8, Thursday	-
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	Transgenic Animals –Goat
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	Transgenic Animals –Bird
Feb 15, Thursday	-
Feb 16, Friday	-
Feb 17, Saturday	Transgenic Animals –Insect
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	Animal diseases need help of Biotechnology –Foot-and- mouth disease,
Feb 20, Tuesday	Animal diseases need help of Biotechnology –Foot-and- mouth disease,
Feb 21, Wednesday	Animal diseases need help of Biotechnology- Coccidiosis,
Feb 22, Thursday	-
Feb 23, Friday	-
Feb 24, Saturday	Animal diseases need help of Biotechnology –Coccidiosis
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	Animal diseases need help of Biotechnology – Trypanosomiasis,

Feb 27, Tuesday	Animal diseases need help of Biotechnology –Trypanosomiasis.
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	Assignment and test of Transgenic animals
Mar 6, Tuesday	Animal diseases need help of Biotechnology –Theileriosis.
Mar 7, Wednesday	Animal diseases need help of Biotechnology –Theileriosis.
Mar 8, Thursday	-
Mar 9, Friday	-
Mar 10, Saturday	Test of Animal diseases need help of Biotechnology
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	Animal propagation – Artificial insemination
Mar 13, Tuesday	Animal propagation – Artificial insemination
Mar 14, Wednesday	Animal propagation –Animal Clones.
Mar 15, Thursday	-
Mar 16, Friday	-
Mar 17, Saturday	Animal propagation –Animal Clones.
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	Animal propagation –Animal Clones.
Mar 20, Tuesday	Assignment and test of Animal propagation.
Mar 21, Wednesday	Conservation Biology – Embryo transfer techniques.
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	Conservation Biology – Embryo transfer techniques.
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	Introduction to Stem Cell Technology and its applications.
Mar 27, Tuesday	Introduction to Stem Cell Technology and its applications.

Mar 28, Wednesday	Test of Conservation biology
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	Genetic modification in Medicine - gene therapy, types of gene therapy
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	Genetic modification in Medicine - gene therapy, types of gene therapy
Apr 3, Tuesday	Genetic modification in Medicine - gene therapy, types of gene therapy
Apr 4, Wednesday	Vectors in gene therapy
Apr 5, Thursday	-
Apr 6, Friday	-
Apr 7, Saturday	Vectors in gene therapy
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	Molecular engineering
Apr 10, Tuesday	Molecular engineering
Apr 11, Wednesday	Human genetic engineering
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	Human genetic engineering
Apr 17, Tuesday	Problems & ethics.
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	-
Apr 20, Friday	-
Apr 21, Saturday	Problems & ethics.
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	Revision of Genetic modification of medicine
Apr 24, Tuesday	Revision of Molecular engineering
Apr 25, Wednesday	Test of Gene therapy

Apr 26, Thursday	-
Apr 27, Friday	-
Apr 28, Saturday	Test of molecular engineering

Lesson Plan

Name of the Assistant Professor: Dr. Neha Shekhawat

Class: B.Sc. Biotechnology VI Sem

Name of Subject: Animal Biotechnology Practical

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	Practical Group 1: 1.Sterilization techniques: Theory and Practical: Glass ware sterilization, Media sterilization, Laboratory sterilization
Jan 9, Tuesday	Practical Group 2: 1.Sterilization techniques: Theory and Practical: Glass ware sterilization, Media sterilization, Laboratory sterilization
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	-
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	Practical Group 1: Sources of contamination and decontamination measures
Jan 16, Tuesday	Practical Group 2: Sources of contamination and decontamination measures
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	-
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	Practical Group 2: Sources of contamination and decontamination measures
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-

Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	Practical Group 1: Sources of contamination and decontamination measures
Jan 30, Tuesday	Practical Group 2: Preparation of Hanks Balanced salt solution
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	-
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	Practical Group 1: Preparation of Hanks Balanced salt solution
Feb 6, Tuesday	Practical Group 2: Preparation of Minimal Essential Growth medium
Feb 7, Wednesday	-
Feb 8, Thursday	-
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	Practical Group 1: Preparation of Minimal Essential Growth medium
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	-
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	Practical Group 1: Isolation of lymphocytes for culturing
Feb 20, Tuesday	Practical Group 2: Isolation of lymphocytes for culturing
Feb 21, Wednesday	-
Feb 22, Thursday	-
Feb 23, Friday	-
Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	

Feb 26, Monday	Practical Group 1: Isolation of lymphocytes for culturing
Feb 27, Tuesday	
Feb 28, Wednesday	
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	Practical Group 1: DNA isolation from animal tissue
Mar 6, Tuesday	Practical Group 2: Isolation of lymphocytes for culturing
Mar 7, Wednesday	-
Mar 8, Thursday	-
Mar 9, Friday	-
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	Practical Group 1: DNA isolation from animal tissue
Mar 13, Tuesday	Practical Group 2: DNA isolation from animal tissue
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	-
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	Practical Group 1: Quantification of isolated DNA
Mar 20, Tuesday	Practical Group 2: DNA isolation from animal tissue
Mar 21, Wednesday	-
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	Practical Group 1: Quantification of isolated DNA

Mar 27, Tuesday	Practical Group 2: Quantification of isolated DNA
Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	Practical Group 1: Resolving DNA on Agarose Gel.
Apr 3, Tuesday	Practical Group 2: Quantification of isolated DNA
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	-
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	Practical Group 1:Revision
Apr 10, Tuesday	Practical Group 2: Resolving DNA on Agarose Gel.
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	Practical Group 1: Revision
Apr 17, Tuesday	Practical Group 2: Revision
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	-
Apr 20, Friday	-
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	Practical Group 1: Revision
Apr 24, Tuesday	Practical Group 2: Revision

Apr 25, Wednesday	-
Apr 26, Thursday	-
Apr 27, Friday	-
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor: Dr. Pooja Sawhney

Class: B.Sc. Biotechnology II Sem

Name of Subject: Animal Diversity and Economic Zoology

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	Outline of classification of Non- Chordates upto subclasses
Jan 10, Wednesday	-
Jan 11, Thursday	Coelomata, Acoelomata,
Jan 12, Friday	Symmetries, Deutrostomes
Jan 13, Saturday	--
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	Protostomes
Jan 17, Wednesday	-
Jan 18, Thursday	Protozoa: Locomotion, Reproduction, evolution of Sex
Jan 19, Friday	Protozoa: Locomotion, Reproduction, evolution of Sex
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	General features and life history of Paramoecium
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	General features and life history of Paramoecium
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-
Jan 29, 2018 to Feb 3, 2018 (Week 5)	

Jan 29, Monday	-
Jan 30, Tuesday	General features and life history of Plasmodium.
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	General features and life history of Plasmodium.
Feb 2, Friday	General features and life history of Plasmodium.
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	Assignment and test of Paramoecium
Feb 7, Wednesday	-
Feb 8, Thursday	Porifera: General characters
Feb 9, Friday	Porifera: outline of Classification
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	Porifera: skeleton , Canal System
Feb 16, Friday	Test of Plasmodium
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	Coelenterata: General Characters, Outline of classifications Polymorphism
Feb 21, Wednesday	-
Feb 22, Thursday	Coelenterata: General Characters, Outline of classifications Polymorphism
Feb 23, Friday	Various types of stinging cells
Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-

Feb 27, Tuesday	Metagenesis, coral reefs and their formation.
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	Platyhelminthes- General Characters; Outline of classification;
Mar 7, Wednesday	-
Mar 8, Thursday	Pathogenic flatworms: Parasitic adaptations, Importantl Larval forms.
Mar 9, Friday	Aschelminthes: General features, Outline of classification
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	Pathogenic roundworms and their vectors in relation to man: Parasite adaptation
Mar 14, Wednesday	-
Mar 15, Thursday	Assignment and test of Porifera
Mar 16, Friday	
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	Annelida: - General features, Outline of classification,
Mar 21, Wednesday	-
Mar 22, Thursday	Coelom: Metameric segmentation, Vermicomposting.
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	General features and life history of Earthworm,

Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	Arthropoda: General Features, Outline of Classification
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	Larval forms of crustacean, Respiration in Arthropoda; Metamorphosis in insects;
Apr 4, Wednesday	-
Apr 5, Thursday	Social insects; Insect vectors of diseases
Apr 6, Friday	Apiculture, Sericulture.
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	Mollusca : general features, Outline of classification, Shell Diversity; Torsion in gastropoda
Apr 11, Wednesday	-
Apr 12, Thursday	Life history of Pila.
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	Assignment and test of Annelida
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	Echinodermata: General features, Outline of Classification
Apr 20, Friday	Life history of starfish (Asterias) Larval forms
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	Hemichordata: Phylogeny: Affinities of Balanoglossus

Apr 25, Wednesday	-
Apr 26, Thursday	Test of Star fish
Apr 27, Friday	Revision of Mollusca
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor: Dr. Pooja Sawhney

Class: B.Sc. Biotechnonology II Sem

Name of Subject: Animal Diversity and Economic Zoology Practical

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	Practical Group 1: Cnidaria: Medrepora, Millepora, Physalia, Porpita, Valella, Aurelia, Metridium; Platyhelminthes: Taenia, Fasciola Aschelminthes: Ascaris, Ancylostoma, Enterobius
Jan 11, Thursday	Practical Group 2: Cnidaria: Medrepora, Millepora, Physalia, Porpita, Valella, Aurelia, Metridium; Platyhelminthes: Taenia, Fasciola Aschelminthes: Ascaris, Ancylostoma, Enterobius
Jan 12, Friday	-
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	Practical Group 1: Annelida: Pheretima, Hirudinaria, Chaetopterus, Nereis, Aphrodite
Jan 18, Thursday	Practical Group 2: Annelida: Pheretima, Hirudinaria, Chaetopterus, Nereis, Aphrodite
Jan 19, Friday	-
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	Practical Group 2: Arthropoda: Julus, Scolopendra, Peripatus, Carcinus, Limulus, Lepisma, Dragonfly, Musca, Acheta

Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-
Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	Practical Group 2: Mollusca: Pila, Unio, Mytilus, Loligo, Sepia, Octopus, Solen
Feb 2, Friday	-
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	Practical Group 1: Arthropoda: Julus, Scolopendra, Peripatus, Carcinus, Limulus, Lepisma, Dragonfly, Musca, Acheta
Feb 8, Thursday	Practical Group 2: Echinodermata: Asterias, Ophiothrix, Echinus, Holothuria, Astrophyton; Hemichordata: Balanoglossus
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	Practical Group 1: Mollusca: Pila, Unio, Mytilus, Loligo, Sepia, Octopus, Solen
Feb 15, Thursday	Practical Group 2:
Feb 16, Friday	-
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	Practical Group 1:
Feb 22, Thursday	Practical Group 2:

Feb 23, Friday	-
Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	Practical Group 1: Echinodermata: Asterias, Ophiothrix, Echinus, Holothuria, Astrophyton; Hemichordata: Balanoglossus
Mar 8, Thursday	Practical Group 2: Identification of slides with two points of identification. Amoeba, Paramoecium, Ceratium, Plasmodium, Opalina, L.S. Sponge, Spicules of sponges
Mar 9, Friday	-
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	Practical Group 1: Identification of slides with two points of identification. Amoeba, Paramoecium, Ceratium, Plasmodium, Opalina, L.S. Sponge, Spicules of sponges
Mar 15, Thursday	Practical Group 2: Ecological Note – On any of the specimens in Exercise No 1
Mar 16, Friday	-
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-

Mar 20, Tuesday	-
Mar 21, Wednesday	Practical Group 1: Ecological Note – On any of the specimens in Exercise No 1
Mar 22, Thursday	Practical Group 2: Identification of slides with two points of identification. L.S. Hydra, Obelia, Bougainvillia, Larvae of Fasciola, Seta of Earthworm, Radula
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-
Mar 28, Wednesday	Practical Group 1: Identification of slides with two points of identification. L.S. Hydra, Obelia, Bougainvillia, Larvae of Fasciola, Seta of Earthworm, Radula
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	Practical Group 1: Earthworm: Digestive, Nervous System,
Apr 5, Thursday	Practical Group 2: Earthworm: Digestive, Nervous System,
Apr 6, Friday	-
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	Practical Group 1: Cockroach: Digestive Reproductive, Nervous System
Apr 12, Thursday	Practical Group 2: Cockroach: Digestive Reproductive, Nervous System
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	

Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	Practical Group 2: Revision
Apr 20, Friday	-
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	Practical Group 1:Revision
Apr 26, Thursday	Practical Group 2:Revision
Apr 27, Friday	-
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor: Dr. Pooja Sawhney

Class: B.Sc. Biotechnology VI Sem

Name of Subject: Bioprocess Technology

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	Introduction to bioprocess technology
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	Range of bioprocess technology and its chronological development
Jan 9, Tuesday	Range of bioprocess technology and its chronological development
Jan 10, Wednesday	Basic principle components of fermentation technology.
Jan 11, Thursday	-
Jan 12, Friday	-
Jan 13, Saturday	Basic principle components of fermentation technology.
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	Basic principle components of fermentation technology.
Jan 16, Tuesday	Types of microbial culture and its growth kinetics– Batch, Fedbatch and Continuous culture.
Jan 17, Wednesday	Types of microbial culture and its growth kinetics– Batch, Fedbatch and Continuous culture.
Jan 18, Thursday	-
Jan 19, Friday	-
Jan 20, Saturday	Types of microbial culture and its growth kinetics– Batch, Fedbatch and Continuous culture.
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	Types of microbial culture and its growth kinetics– Batch, Fedbatch and Continuous culture.
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	Assignment and test of fermentation technology

Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	Design of bioprocess vessels- Significance of Impeller
Jan 30, Tuesday	Design of bioprocess vessels- Significance of Impeller
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	-
Feb 3, Saturday	Design of bioprocess vessels- Significance of Baffles
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	Design of bioprocess vessels- Significance of Sparger
Feb 6, Tuesday	Types of culture/production vessels- Airlift and their application in production processes
Feb 7, Wednesday	Types of culture/production vessels- Airlift and their application in production processes
Feb 8, Thursday	-
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	Types of culture/production vessels- Cyclone Column and their application in production processes
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	Types of culture/production vessels- Cyclone Column and their application in production processes
Feb 15, Thursday	-
Feb 16, Friday	-
Feb 17, Saturday	Types of culture/production vessels- Packed Tower and their application in production processes
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	Types of culture/production vessels- Packed Tower and their application in production processes
Feb 20, Tuesday	Principles of upstream processing
Feb 21, Wednesday	Principles of upstream processing
Feb 22, Thursday	-
Feb 23, Friday	-

Feb 24, Saturday	Media preparation,
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	Inocula development
Feb 27, Tuesday	Sterilization
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	Assignment and test of Bioprocess vessels
Mar 6, Tuesday	Test of principles of upstream processing
Mar 7, Wednesday	Introduction to oxygen requirement in bioprocess;
Mar 8, Thursday	-
Mar 9, Friday	-
Mar 10, Saturday	Introduction to oxygen requirement in bioprocess;
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	Mass transfer coefficient
Mar 13, Tuesday	Mass transfer coefficient
Mar 14, Wednesday	Factors affecting KLa
Mar 15, Thursday	-
Mar 16, Friday	-
Mar 17, Saturday	Factors affecting KLa
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	Bioprocess measurement and control system with special reference to computer aided process control.
Mar 20, Tuesday	Bioprocess measurement and control system with special reference to computer aided process control.
Mar 21, Wednesday	Bioprocess measurement and control system with special reference to computer aided process control.
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>

Mar 24, Saturday	Assignment and test of Oxygen requirement of bioprocess
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	Test of Mass transfer coefficient and Factors affecting KLa
Mar 27, Tuesday	Introduction to downstream processing,
Mar 28, Wednesday	Introduction to downstream processing,
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	Introduction to downstream processing,
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	Product recovery and purification
Apr 3, Tuesday	Product recovery and purification
Apr 4, Wednesday	Effluent treatment
Apr 5, Thursday	-
Apr 6, Friday	-
Apr 7, Saturday	Effluent treatment
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	Microbial production of ethanol
Apr 10, Tuesday	Microbial production of ethanol
Apr 11, Wednesday	Microbial production of amylase
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	Microbial production of Single Cell Proteins.
Apr 17, Tuesday	Microbial production of Single Cell Proteins.
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	-
Apr 20, Friday	-
Apr 21, Saturday	Assignment and test of downstream processing

Apr 23, 2018 to Apr 28, 2018 (Week 17)

Apr 23, Monday	Revision of Types of microbial culture and its growth kinetics
Apr 24, Tuesday	Revision of Basic principle components of fermentation technology
Apr 25, Wednesday	Revision of
Apr 26, Thursday	-
Apr 27, Friday	-
Apr 28, Saturday	Design of bioprocess vessels

Lesson Plan

Name of the Assistant Professor: Dr. Pooja Sawhney

Class: B.Sc. Biotechnology VI Sem

Name of Subject: Bioprocess Technology Practical

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	Practical Group 2: Calculation of bacterial growth curve.
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	Practical Group 1: Calculation of bacterial growth curve.
Jan 13, Saturday	Practical Group 2: Calculation of bacterial growth curve.
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	Practical Group 1: Calculation of bacterial growth curve.
Jan 20, Saturday	Practical Group 2: Calculation thermal death point (TDP) of a microbial sample.
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	Practical Group 2: Calculation thermal death point (TDP) of a microbial sample.

Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	Practical Group 1: Calculation thermal death point (TDP) of a microbial sample.
Feb 3, Saturday	Practical Group 2: Production and analysis of ethanol.
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	-
Feb 8, Thursday	-
Feb 9, Friday	Practical Group 1: Calculation thermal death point (TDP) of a microbial sample.
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	Practical Group 1: Production and analysis of ethanol.
Feb 17, Saturday	Practical Group 2: Production and analysis of ethanol.
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	-
Feb 22, Thursday	-
Feb 23, Friday	Practical Group 1: Production and analysis of ethanol.
Feb 24, Saturday	Practical Group 2: Production and analysis of amylase

Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	-
Mar 8, Thursday	-
Mar 9, Friday	Practical Group 1: Production and analysis of amylase
Mar 10, Saturday	Practical Group 2: Production and analysis of amylase
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	Practical Group 1: Production and analysis of amylase
Mar 17, Saturday	Practical Group 2: .Production and analysis of lactic acid.
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	-
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	Practical Group 2:
Mar 26, 2018 to Mar 31, 2018 (Week 13)	

Mar 26, Monday	-
Mar 27, Tuesday	-
Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	Practical Group 1: Production and analysis of lactic acid.
Mar 31, Saturday	Practical Group 2: Isolation of industrially important microorganism from natural resource.
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	Practical Group 1: Isolation of industrially important microorganism from natural resource.
Apr 7, Saturday	Practical Group 2:
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	-
Apr 20, Friday	Practical Group 1: Isolation of industrially important microorganism from natural resource.
Apr 21, Saturday	Practical Group 2: Isolation of industrially important microorganism from natural resource.
Apr 23, 2018 to Apr 28, 2018 (Week 17)	

Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	-
Apr 26, Thursday	-
Apr 27, Friday	Practical Group 1: Revision
Apr 28, Saturday	Practical Group 2: Revision

Lesson Plan

Name of the Assistant Professor: Dr. Pooja Sawhney

Class: B.Sc. Biotechnology IV Sem

Name of Subject: Animal Developmental Biology

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	Definition, scope & historical perspective of development Biology
Jan 9, Tuesday	Gametogenesis – Spermatogenesis
Jan 10, Wednesday	-
Jan 11, Thursday	Gametogenesis – Oogenesis
Jan 12, Friday	-
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	Fertilization - Definition, mechanism
Jan 16, Tuesday	Types of fertilization.
Jan 17, Wednesday	-
Jan 18, Thursday	Types of fertilization.
Jan 19, Friday	-
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	Different types of eggs on the basis of yolk
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	Different types of eggs on the basis of yolk
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-
Jan 29, 2018 to Feb 3, 2018 (Week 5)	

Jan 29, Monday	Assignment and Test on Gametogenesis
Jan 30, Tuesday	Cleavage: Definition,
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	Test of fertilization
Feb 2, Friday	-
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	Cleavage: types, patterns
Feb 6, Tuesday	Cleavage: mechanism
Feb 7, Wednesday	-
Feb 8, Thursday	Cleavage: mechanism
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	Blastulation: Process
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	Blastulation: types
Feb 16, Friday	-
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	Blastulation: mechanism
Feb 20, Tuesday	Gastrulation
Feb 21, Wednesday	-
Feb 22, Thursday	Morphogenetic movements– epiboly, emboly,
Feb 23, Friday	-
Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	Morphogenetic movements–extension, invagination,

Feb 27, Tuesday	Morphogenetic movements- convergence, de-lamination.
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	Formation & differentiation of primary germ layers
Mar 6, Tuesday	Assignment and test of cleavage
Mar 7, Wednesday	-
Mar 8, Thursday	Fate Maps in early embryos
Mar 9, Friday	-
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	Differentiation: Cell commitment and determination
Mar 13, Tuesday	Differentiation: Cell commitment and determination
Mar 14, Wednesday	-
Mar 15, Thursday	The epigenetic landscape: a model of determination and differentiation,
Mar 16, Friday	-
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	The epigenetic landscape: a model of determination and differentiation,
Mar 20, Tuesday	Control of differentiation at the level of genome
Mar 21, Wednesday	-
Mar 22, Thursday	Control of differentiation at the level of genome
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	Transcription and post-translation level Concept of embryonic induction
Mar 27, Tuesday	Transcription and post-translation level Concept of embryonic induction

Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	Primary, secondary & tertiary embryonic induction Neural induction and induction of vertebrate lens
Apr 3, Tuesday	Assignment and test of embryonic differentiation
Apr 4, Wednesday	-
Apr 5, Thursday	Organogenesis: Neurulation, notogenesis, development of vertebrate eye.
Apr 6, Friday	-
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	Fate of different primary germ layers
Apr 10, Tuesday	Fate of different primary germ layers
Apr 11, Wednesday	-
Apr 12, Thursday	Development of behaviour: constancy & plasticity
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	Extra embryonic membranes, placenta in Mammals
Apr 17, Tuesday	Assignment and test of organogenesis
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	Revision of Gemetogenesis
Apr 20, Friday	-
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	Revision of Early embryonic development
Apr 24, Tuesday	Revision of embryonic differentiation
Apr 25, Wednesday	-

Apr 26, Thursday	Revision of organogenesis
Apr 27, Friday	-
Apr 28, Saturday	-

Lesson Plan

Name of the Teacher: Dr. Pooja Sawhney

Class: B.Sc. Biotechnonology IV Sem

Name of Subject: Animal Developmental Biology Practical

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	Practical Group 1: Identification of developmental stages of chick embryo using permanent mounts
Jan 11, Thursday	Practical Group 2: Identification of developmental stages of chick embryo using permanent mounts
Jan 12, Friday	-
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	Practical Group 1: Identification of developmental stages of frog embryo using permanent mounts
Jan 18, Thursday	Practical Group 2: Identification of developmental stages of frog embryo using permanent mounts
Jan 19, Friday	-
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	Practical Group 2: Identification of developmental stages of frog embryo using permanent mounts
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-

Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	Practical Group 2: Preparation of a temporary stained mount of chick embryo
Feb 2, Friday	-
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	Practical Group 1: Identification of developmental stages of frog embryo using permanent mounts
Feb 8, Thursday	Practical Group 2: Preparation of a temporary stained mount of chick embryo
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	Practical Group 1: Preparation of a temporary stained mount of chick embryo
Feb 15, Thursday	Practical Group 2: Preparation of a temporary stained mount of chick embryo
Feb 16, Friday	-
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	Practical Group 1: Preparation of a temporary stained mount of chick embryo
Feb 22, Thursday	Practical Group 2: Study of developmental stages of Anopheles mosquito
Feb 23, Friday	-

Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	Practical Group 1: Preparation of a temporary stained mount of chick embryo
Mar 8, Thursday	Practical Group 2: Study of developmental stages of Anopheles mosquito
Mar 9, Friday	-
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	Practical Group 1: Study of developmental stages of Anopheles mosquito
Mar 15, Thursday	Practical Group 2: Study of developmental stages of Anopheles mosquito
Mar 16, Friday	-
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	Practical Group 1: Study of developmental stages of Anopheles mosquito
Mar 22, Thursday	Practical Group 2: Revision
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-

Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-
Mar 28, Wednesday	Practical Group 1: Study of developmental stages of Anopheles mosquito
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	Practical Group 1: Revision
Apr 5, Thursday	Practical Group 2: Revision
Apr 6, Friday	-
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	Practical Group 1: Revision
Apr 12, Thursday	Practical Group 2: Revision
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	Practical Group 2: Revision
Apr 20, Friday	-
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	

Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	Practical Group 1: Revision
Apr 26, Thursday	Practical Group 2: Revision
Apr 27, Friday	-
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor: Ms. Renu Pandey

Class: B.Sc. Biotechnology 6th semester

Name of Subject: I.P.R. Entrepreneurship Bioethics & Biosafety (BT601) Theory

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	Introduction to Indian Patent Law.
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	Introduction to Indian Patent Law
Jan 13, Saturday	World Trade Organization and its related intellectual property provisions
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	Intellectual/Industrial property and its legal protection in research, design and development
Jan 20, Saturday	Patenting in Biotechnology, economic, ethical and depository considerations
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	Assignment- Patenting in Biotechnology Test - Indian Patent Law

Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru ravidas Jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	Entrepreneurship: Selection of a product, line, design and development processes
Feb 3, Saturday	economics on material and energy requirement, stock the product and release the same for making etc.
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	-
Feb 8, Thursday	-
Feb 9, Friday	The basic regulations of excise: Demand for a given product, feasibility of its production under given constraints of raw material
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	energy input, financial situations export potential etc.
Feb 17, Saturday	Demand for a given product, feasibility of its production under given constraints of raw material
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	-
Feb 22, Thursday	-
Feb 23, Friday	energy input, financial situations export potential etc.
Feb 24, Saturday	Assignment- The basic regulations of excise

	Test - Entrepreneurship
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	-
Mar 8, Thursday	-
Mar 9, Friday	Bioethics – Necessity of Bioethics.
Mar 10, Saturday	Bioethics – Necessity of Bioethics.
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	different paradigms of Bioethics – National & International.Ethical issues against the molecular technologies
Mar 17, Saturday	different paradigms of Bioethics – National & International.Ethical issues against the molecular technologies
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	-
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>

Mar 24, Saturday	different paradigms of Bioethics – National & International.Ethical issues against the molecular technologies
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-
Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	Test - Necessity of Bioethics.
Mar 31, Saturday	Assignment- different paradigms of Bioethics
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	Biosafety–Introduction to biosafety and health hazards concerning biotechnology.
Apr 7, Saturday	Introduction to the concept of containment level
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar’s Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	-
Apr 20, Friday	Good Laboratory Practices (GLP) and Good Manufacturing Practices (GMP).

Apr 21, Saturday	Assignment - Good Laboratory Practices (GLP) and Good Manufacturing Practices (GMP).
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	-
Apr 26, Thursday	-
Apr 27, Friday	Revision
Apr 28, Saturday	Mock test

Lesson Plan

Name of the Assistant Professor : Ms. Renu pandey

Class: B.Sc. Biotechnology 6th semester

Name of Subject: Practical I.P.R. Entrepreneurship Bioethics & Biosafety (BT601)

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	Practical group I: Proxy filing of Indian Product patent
Jan 9, Tuesday	Practical group II: Proxy filing of Indian Product patent
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	-
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	Practical group I: Proxy filing of Indian Process patent.
Jan 16, Tuesday	Practical group II: Proxy filing of Indian Process patent.
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	-
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-
Jan 29, 2018 to Feb 3, 2018 (Week 5)	

Jan 29, Monday	Practical group I: Proxy filing of Indian Process patent.
Jan 30, Tuesday	Practical group II: Proxy filing of Indian Process patent.
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	-
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	
Feb 6, Tuesday	-
Feb 7, Wednesday	-
Feb 8, Thursday	-
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	Practical group I: Proxy filing of Indian Process patent.
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	-
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	Practical group I: planning of establishing a hypothetical biotechnology industry in India
Feb 20, Tuesday	Practical group II: planning of establishing a hypothetical biotechnology industry in India
Feb 21, Wednesday	-
Feb 22, Thursday	-
Feb 23, Friday	-
Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	

Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	Practical group I: planning of establishing a hypothetical biotechnology industry in India
Mar 6, Tuesday	Practical group II: planning of establishing a hypothetical biotechnology industry in India
Mar 7, Wednesday	-
Mar 8, Thursday	-
Mar 9, Friday	-
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	Practical group I: planning of establishing a hypothetical biotechnology industry in India
Mar 13, Tuesday	Practical group II: planning of establishing a hypothetical biotechnology industry in India
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	-
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	Practical group I: planning of establishing a hypothetical biotechnology industry in India
Mar 20, Tuesday	Practical group II: planning of establishing a hypothetical biotechnology industry in India
Mar 21, Wednesday	-
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-

Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	Practical group I: group discussion
Mar 27, Tuesday	Practical group II: group discussion
Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	Practical group I: power point presentation
Apr 3, Tuesday	Practical group II: power point presentation
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	-
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	Practical group I: power point presentation
Apr 10, Tuesday	Practical group II: power point presentation
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	Practical group I: revision
Apr 17, Tuesday	Practical group II: revision
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	-
Apr 20, Friday	-
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	

Apr 23, Monday	Practical group I: revision
Apr 24, Tuesday	Practical group II: revision
Apr 25, Wednesday	-
Apr 26, Thursday	-
Apr 27, Friday	-
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor : Ms. Renu Pandey

Class: B.Sc. Biotechnology 2nd semester

Name of Subject: Microbiology (BT202)- Theory

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	Fundamentals of microbiology: History and Evolution of Microbiology.
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	Classification of microorganisms:
Jan 11, Thursday	Classification of microorganisms: Microbial taxonomy
Jan 12, Friday	criteria used to include molecular approaches,
Jan 13, Saturday	Microbial phylogeny and current classification of bacteria.
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	Microbial phylogeny and current classification of bacteria.
Jan 18, Thursday	Morphology and cell structure of major groups of micro- organisms eg – bacteria
Jan 19, Friday	Morphology and cell structure of major groups of micro- organisms eg – algae
Jan 20, Saturday	Morphology and cell structure of major groups of micro- organisms eg –, Fungi
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	Morphology and cell structure of major groups: Protozoa
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	Unique features of viruses.

Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru ravidas Jayanti)</i>
Feb 1, Thursday	Unique features of viruses.
Feb 2, Friday	Assignment – characterization of Prokaryotic and Eukaryotic cells
Feb 3, Saturday	Test - Microbial phylogeny and current classification of bacteria.
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	Cultivation and Maintenance of microorganisms
Feb 8, Thursday	Cultivation and Maintenance of microorganisms
Feb 9, Friday	Cultivation and Maintenance of microorganisms
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	Cultivation and Maintenance of microorganisms:
Feb 15, Thursday	Nutritional categories of micro-organisms
Feb 16, Friday	Nutritional categories of micro-organisms
Feb 17, Saturday	Nutritional categories of micro-organisms
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	methods of isolation
Feb 22, Thursday	Purification and preservation.
Feb 23, Friday	Microbial growth: Growth curve, Generation time
Feb 24, Saturday	Test- methods of isolation, Purification and preservation. Assignment - measurement of growth and factors affecting growth of bacteria.

Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	synchronous batch and continuous culture
Mar 8, Thursday	measurement of growth and factors affecting growth of bacteria.
Mar 9, Friday	Microbial Metabolism: Metabolic pathways
Mar 10, Saturday	Microbial Metabolism: Metabolic pathways
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	amphi-catabolic
Mar 15, Thursday	biosynthetic pathways
Mar 16, Friday	Bacterial Reproduction: Transduction and Conjugation
Mar 17, Saturday	Bacterial Reproduction: Endospores and sporulation in bacteria
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	Water Microbiology: Bacterial pollutants of water,
Mar 22, Thursday	coliforms and non- coliforms. Sewage composition and its disposal.
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	Assignment- Bacterial Reproduction. Revision
Mar 26, 2018 to Mar 31, 2018 (Week 13)	

Mar 26, Monday	-
Mar 27, Tuesday	-
Mar 28, Wednesday	Food Microbiology: Important microorganism in food
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	Food Microbiology: Important microorganism in food
Mar 31, Saturday	Test - Microbial growth and Growth curve.
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	Microbiology: Moulds
Apr 5, Thursday	Yeasts
Apr 6, Friday	Bacteria. Major food born infections and intoxications,
Apr 7, Saturday	Preservation of various types of foods.
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	Fermented Foods Industrial Microbiology
Apr 12, Thursday	Bio engineering of microorganism for Industrial purposes.
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	Assignment - Preservation of various types of foods.
Apr 20, Friday	Petroleum microbiology.
Apr 21, Saturday	Deterioration of materials.
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-

Apr 24, Tuesday	-
Apr 25, Wednesday	Revision of unit- I
Apr 26, Thursday	Revision of unit-II
Apr 27, Friday	Revision of unit-III
Apr 28, Saturday	Revision of unit-IV

Lesson Plan

Name of the Assistant Professor: Ms. Renu Pandey

Class: B.Sc. Biotech 2nd semester

Name of Subject: Microbiology (BT202) Practical

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	Fundamentals of microbiology: History and Evolution of Microbiology.
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	Practical group-I Microscopy & use of Microscope
Jan 9, Tuesday	Practical group-II Microscopy & use of Microscope
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	-
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	Practical group-I Staining method – simple staining, grain staining, spore staining, negative staining
Jan 16, Tuesday	Practical group- II Staining method – simple staining, grain staining, spore staining, negative staining
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	-
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	Practical group-1 Staining method – simple staining, grain staining, spore staining, negative staining
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	-
Jan 27, Saturday	-

Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	Practical group-I Staining method – simple staining, grain staining, spore staining, negative staining
Jan 30, Tuesday	Practical group- II Staining method – simple staining, grain staining, spore staining, negative staining
Jan 31, Wednesday	<i>Holiday (Guru ravidas Jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	-
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	Practical group-1 Preparation of media & sterilization, Methods of Isolation of bacteria from different sources
Feb 6, Tuesday	Practical group-II Preparation of media & sterilization, Methods of Isolation of bacteria from different sources
Feb 7, Wednesday	-
Feb 8, Thursday	-
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	Practical group-1 Preparation of media & sterilization, Methods of Isolation of bacteria from different sources
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	-
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	Practical group-I Preparation of media & sterilization, Methods of Isolation of bacteria from different sources
Feb 20, Tuesday	Practical group-II Preparation of media & sterilization, Methods of Isolation of bacteria from different sources
Feb 21, Wednesday	-
Feb 22, Thursday	-
Feb 23, Friday	-

Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	Practical group-I Preparation of media & sterilization, Methods of Isolation of bacteria from different sources
Feb 27, Tuesday	Practical group-II Preparation of media & sterilization, Methods of Isolation of bacteria from different sources
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	Practical group-I Determination of cell size by micrometry
Mar 6, Tuesday	Practical group-II Determination of cell size by micrometry
Mar 7, Wednesday	-
Mar 8, Thursday	-
Mar 9, Friday	-
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	Practical group-I Determination of cell size by micrometry
Mar 13, Tuesday	Practical group-II Determination of cell size by micrometry
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	-
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	Practical group-I Determination of cell size by micrometry
Mar 20, Tuesday	Practical group-II Determination of cell size by micrometry
Mar 21, Wednesday	-
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>

Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	Practical group-I Enumeration of microorganism - total & viable count
Mar 27, Tuesday	Practical group-II Enumeration of microorganism - total & viable count
Mar 28, Wednesday	-
Mar 29, Thursday	-
Mar 30, Friday	-
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	Practical group-I Enumeration of microorganism - total & viable count
Apr 3, Tuesday	Practical group-II Enumeration of microorganism - total & viable count
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	-
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	Practical group-I Enumeration of microorganism - total & viable count
Apr 10, Tuesday	Practical group-I Enumeration of microorganism - total & viable count
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	Practical group-I revision
Apr 17, Tuesday	Practical group-I revision
Apr 18, Wednesday	-
Apr 19, Thursday	-
Apr 20, Friday	-
Apr 21, Saturday	-

Apr 23, 2018 to Apr 28, 2018 (Week 17)

Apr 23, Monday	Practical group-I revision
Apr 24, Tuesday	Practical group-I revision
Apr 25, Wednesday	-
Apr 26, Thursday	-
Apr 27, Friday	-
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor : Ms. Renu Pandey

Class: B.Sc. Biotech 2nd semester

Name of Subject: Molecular Biology(BT402) Theory

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	DNA structure and replication DNA as genetic material
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	Types of DNA Replication of DNA in prokaryotes and eukaryotes.
Jan 11, Thursday	Replication of DNA in prokaryotes
Jan 12, Friday	-
Jan 13, Saturday	
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	Replication of DNA in eukaryotes:
Jan 18, Thursday	Semiconservative nature of DNA replication, Bidirectional replication, DNA polymerases
Jan 19, Friday	-
Jan 20, Saturday	Semiconservative nature of DNA replication, Bidirectional replication, DNA polymerases,
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	primosome, replisome, Unique aspects of eukaryotic chromosome replication, Fidelity of replication
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	Rolling circle replication, Unique aspects of eukaryotic chromosome replication, Fidelity of replication

Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	Assignment -Types of DNA Replication of DNA in prokaryotes and eukaryotes.
Jan 30, Tuesday	-
Jan 31, Wednesday	Holiday (Guru Ravidas JayantiI)
Feb 1, Thursday	Test - Bidirectional replication
Feb 2, Friday	-
Feb 3, Saturday	
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	DNA damage, repair and homologous recombination DNA damage and repair: causes and types of DNA damage, mechanism of DNA repair:
Feb 8, Thursday	Photoreactivation, base excision repair, nucleotide excision repair, mismatch repair, translation synthesis
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	recombinational repair
Feb 15, Thursday	non-homologous end joining
Feb 16, Friday	-
Feb 17, Saturday	
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	Homologous recombination: models
Feb 22, Thursday	mechanism
Feb 23, Friday	-
Feb 24, Saturday	

Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	Transcription and RNA processing RNA structure and types of RNA,
Mar 8, Thursday	Transcription in prokaryotes
Mar 9, Friday	-
Mar 10, Saturday	RNA polymerase, role of sigma factor, promoter
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	Initiation, elongation and termination of RNA chains Transcription in eukaryotes: Eukaryotic RNA polymerases, transcription factors, promoters, enhancers, mechanism of transcription initiation,
Mar 15, Thursday	transcription factors, promoters, enhancers, mechanism of transcription initiation
Mar 16, Friday	-
Mar 17, Saturday	
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	promoter clearance and elongation RNA splicing and processing: processing of pre-mRNA: 5' cap formation,
Mar 22, Thursday	polyadenylation
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>

Mar 24, Saturday	splicing
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-
Mar 28, Wednesday	rRNA and tRNA splicing
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	Assignment and Test - Transcription in prokaryotes
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	Regulation of gene expression in prokaryotes: Operon concept (inducible and repressible system) Genetic code and its characteristics Prokaryotic and eukaryotic translation:
Apr 5, Thursday	ribosome structure and assembly, Charging of tRNA, aminoacyl tRNA synthetases
Apr 6, Friday	-
Apr 7, Saturday	Mechanism of initiation, elongation and termination of polypeptides
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	Fidelity of translation, Inhibitors of translation. Posttranslational modifications of proteins
Apr 12, Thursday	Inhibitors of translation. Posttranslational modifications of proteins
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	Mechanism of initiation, elongation and termination of polypeptides

Apr 20, Friday	Assignment: ribosome structure and assembly
Apr 21, Saturday	Power point presentation
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	Revision unit I
Apr 26, Thursday	Revision unit II
Apr 27, Friday	Revision unit III
Apr 28, Saturday	Revision unit IV

Lesson Plan

Name of the Assistant Professor: Ms. Renu Pandey

Class: B.Sc. Biotech 2nd semester

Name of Subject: Molecular Biology (BT402) Practical

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	Practical group I: Isolation of DNA from bacterial cells
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	Practical group I: Isolation of DNA from bacterial cells
Jan 13, Saturday	Practical group II: Isolation of DNA from bacterial cells
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	Practical group I: Isolation of DNA from bacterial cells
Jan 20, Saturday	Practical group II: Isolation of DNA from bacterial cells
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	Practical group II: Isolation of DNA from bacterial cells
Jan 29, 2018 to Feb 3, 2018 (Week 5)	

Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru ravidas Jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	Practical group I: Isolation of Plasmid DNA by alkaline method
Feb 3, Saturday	Practical group II: Isolation of Plasmid DNA by alkaline method
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	
Feb 8, Thursday	
Feb 9, Friday	Practical: Isolation of Plasmid DNA by alkaline method
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	Practical group I: Agarose gel electrophoresis of genomic DNA
Feb 17, Saturday	Practical group II: Agarose gel electrophoresis of genomic DNA
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	-
Feb 22, Thursday	-
Feb 23, Friday	Practical: group I: Agarose gel electrophoresis of genomic DNA
Feb 24, Saturday	Practical: group II: Agarose gel electrophoresis of genomic DNA
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-

Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	
Mar 8, Thursday	
Mar 9, Friday	Practical group I: Agarose gel electrophoresis of plasmid DNA
Mar 10, Saturday	Practical group: II Agarose gel electrophoresis of plasmid DNA
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	Practical: group I Agarose gel electrophoresis of plasmid DNA
Mar 17, Saturday	Practical: group II Agarose gel electrophoresis of plasmid DNA
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	-
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	Practical: group I Preparation of restriction enzyme digests of DNA samples
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-

Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	Practical group I: Preparation of restriction enzyme digests of DNA samples
Mar 31, Saturday	Practical group II: Preparation of restriction enzyme digests of DNA samples
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	Practical group I: Preparation of restriction enzyme digests of DNA samples
Apr 7, Saturday	Practical group II: Preparation of restriction enzyme digests of DNA samples
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	-
Apr 20, Friday	Practical: revision
Apr 21, Saturday	Practical: revision
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-

Apr 25, Wednesday	-
Apr 26, Thursday	-
Apr 27, Friday	Practical: revision
Apr 28, Saturday	Practical: revision

Lesson Plan

Name of the Assistant Professor: Ms. Swatantra Tripathi

Class: B.Sc.- Biotechnology 2nd year(4th sem)

Name of Subject: Chemistry Practicals (Group-B)

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	PRACTICAL: Preparation of Cuprous chloride
Jan 9, Tuesday	PRACTICAL: Preparation of chrome alum
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	-
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	PRACTICAL: Preparation of potassium trioxalato chromate (III).
Jan 16, Tuesday	PRACTICAL: Preparation of tetraammine cupric sulphate
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	-
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	PRACTICAL: Preparation of prussion blue from iron fillings
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-

Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	PRACTICAL: To determine the solubility of benzoic acid at various temperatures and to determine the ΔH of the dissolution process
Jan 30, Tuesday	PRACTICAL: To determine the enthalpy of neutralisation of a strong acid vs. strong base
Jan 31, Wednesday	<i>Holiday (Guru Ravidas jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	-
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	PRACTICAL: To determine the enthalpy of neutralisation of a weak Acid vs weak base
Feb 6, Tuesday	PRACTICAL: To determine the enthalpy of neutralisation of a strong Acid vs weak base
Feb 7, Wednesday	-
Feb 8, Thursday	-
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	PRACTICAL: To determine the CST of phenol – water system
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	-
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	PRACTICAL: To determine the enthalpy of solution of solid calcium chloride
Feb 20, Tuesday	PRACTICAL: .To study the distribution of iodine between water and CCl ₄ .
Feb 21, Wednesday	-
Feb 22, Thursday	-
Feb 23, Friday	-

Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	PRACTICAL: .To study the distribution of iodine between water and CCl ₄ .
Feb 27, Tuesday	PRACTICAL: To verify Beer - Lambert law for KMnO ₄ and determine the concentration of the given KMnO ₄ solution.
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	PRACTICAL: To verify Beer - Lambert law for K ₂ Cr ₂ O ₇ and determine the concentration of the given K ₂ Cr ₂ O ₇ solution.
Mar 6, Tuesday	PRACTICAL: To verify Beer - Lambert law for KMnO ₄ and determine the concentration of the given KMnO ₄ solution
Mar 7, Wednesday	-
Mar 8, Thursday	-
Mar 9, Friday	-
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	PRACTICAL: To verify Beer - Lambert law for K ₂ Cr ₂ O ₇ and determine the concentration of the given K ₂ Cr ₂ O ₇ so lution.
Mar 13, Tuesday	PRACTICAL: To determine the enthalpy of neutralisation of a weak Acid vs weak base
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	-
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	
Mar 20, Tuesday	PRACTICAL: To determine the enthalpy of neutralisation of a stong Acid vs weak base
Mar 21, Wednesday	-
Mar 22, Thursday	-

Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	PRACTICAL: To determine the solubility of benzoic acid at various temperatures and to determine the ΔH of the dissolution process
Mar 27, Tuesday	PRACTICAL: To determine the CST of phenol – water system
Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	PRACTICAL: Revision
Apr 3, Tuesday	PRACTICAL: Revision
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	-
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	PRACTICAL: Revision
Apr 10, Tuesday	PRACTICAL: Revision
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	PRACTICAL: Revision
Apr 17, Tuesday	PRACTICAL: Revision
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	-

Apr 20, Friday	-
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	PRACTICAL: Revision
Apr 24, Tuesday	PRACTICAL: Revision
Apr 25, Wednesday	-
Apr 26, Thursday	-
Apr 27, Friday	-
Apr 28, Saturday	

Lesson Plan

Name of the Assistant Professor: Ms.Swatantra Tripathi

Class: B.Sc.- Biotechnology 3rd YEAR(6th sem)

Name of Subject: Inorganic Chemistry

Jan 1, 2018 to Jan 6, 2018 (Week 1)	
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	Introduction of organometallic compounds- definition and types,Classification of ligands
Jan 11, Thursday	-
Jan 12, Friday	effective atomic no. rule, Nomenclature Preparation ,properties, bonding and application of ORGANOLITHIUM COMPOUND
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	Preparation ,properties, bonding and application of ORGANOALUMINIUM COMPOUND
Jan 18, Thursday	-
Jan 19, Friday	Preparation ,properties, bonding and application of ORGANOTIN COMPOUND and ORGANOMERCURY COMPOUND
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>

Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-
Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	Metal olefin complexes, mononuclear carbonyls, bonding in metal carbonyls.
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	Test and assignment on organometallic chemistry.
Feb 8, Thursday	-
Feb 9, Friday	Arrhenius, Bronsted – Lowry, Lewis concept of acid and bases , Lux – Flood, Solvent system, relative strength of acids & bases Effect of solvents on acid base strengths,
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	concept of hard acids and bases ,pearson's HSAB principle ,Theoretical basis of hardness and softness,acid base strength and hardness and sotness
Feb 15, Thursday	-
Feb 16, Friday	Symbiosis , electronegativity and hardness softness
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-

Feb 20, Tuesday	-
Feb 21, Wednesday	TEST AND ASSIGNMENT SUBMISSION OF ACID,BASES AND HSAB CONCEPT
Feb 22, Thursday	-
Feb 23, Friday	Introduction to bioinorganic chemistry ,Essential and trace elements in biological processes
Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	Metalloporphyrins , Haemoglobin and myoglobin structure and biological role
Mar 8, Thursday	-
Mar 9, Friday	Myoglobin and heamoglobin functions and cooperativity, biological role of alkali and alkaline earth metals, sodium –potassium pump with mechanism
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	Role of calcium ion and its transport (Calcium pump) , introduction of nitrogen fixation
Mar 15, Thursday	-
Mar 16, Friday	Nitrogen fixation(biological and abiological)
Mar 17, Saturday	-

Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	TEST AND ASSIGNMENT SUBMISSION OF BIOINORGANIC CHEMISTRY
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-
Mar 28, Wednesday	Introduction to silicones ,nomenclature, preparation, formation of cross linked silicones
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	Equilibration and ring opening polymerization of cyclosiloxanes, properties of silicones
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	Silicon fluids or oils, silicone elastomers, silicone resins ,uses
Apr 5, Thursday	
Apr 6, Friday	Polyphosphazenes-structure and preparation Properties, nature of bonding, bonding in triphosphazenes
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	Bonding in cyclotriphosphazenes, uses of phosphazenes
Apr 12, Thursday	-

Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	-
Apr 20, Friday	TEST AND ASSIGNMENT OF SILICONES AND POLYPHOSPHAZENES
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	REVISION OF BIOINORGANIC CHEMISTRY
Apr 26, Thursday	-
Apr 27, Friday	REVISION OF ACID ,BASES AND HSAB CONCEPT
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor: Ms.Swatantra Tripathi

Class: B.Sc.-Biotech 1st Year(2nd sem)

Name of Subject: Organic Chemistry

Jan 1, 2018 to Jan 6, 2018 (Week 1)	
Jan 1, Monday	-
Jan 2, Tuesday	-
Jan 3, Wednesday	-
Jan 4, Thursday	-
Jan 5, Friday	<i>Guru govind singh jayanti</i>
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	Nomenclature of alkenes, , mechanisms of dehydration of alcohols ,mechanisms of dehydrohalogenation of alkyl halides, The Saytzeff rule,,Hoffmann elimination,
Jan 9, Tuesday	
Jan 10, Wednesday	physical properties and relative stabilities of alkenes ,Chemical reactions of alkenes - mechanisms involved in hydrogenation,
Jan 11, Thursday	-
Jan 12, Friday	-
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	electrophilic and free radical additions,,Markownikoff's rule, hydroboration-oxidation, oxymercuration reduction
Jan 16, Tuesday	
Jan 17, Wednesday	ozonolysis, hydration, hydroxylation and oxidation with KMnO ₄
Jan 18, Thursday	-
Jan 19, Friday	-
Jan 20, Saturday	-

Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-
Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	Test and assignment of hydroboration-oxidation, oxymercuration reduction, ozonolysis, oxidation with KMnO ₄
Jan 30, Tuesday	
Jan 31, Wednesday	<i>Holiday (Guru Ravidas Jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	-
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	Nomenclature of benzene derivatives: Aromatic nucleus and side Chain, Aromaticity: the Huckel rule, aromatic ions, annulenes up to 10 carbon atoms,
Feb 6, Tuesday	-
Feb 7, Wednesday	aromatic, anti - aromatic and non - aromatic compounds. Aromatic electrophilic substitution - general pattern of the mechanism,
Feb 8, Thursday	-
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	mechanism of nitration, halogenation, sulphonation Friedel-Crafts reaction
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	Energy profile diagrams. Activating, deactivating substituents and orientation.

Feb 15, Thursday	
Feb 16, Friday	-
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	Test and assignment of arenes and aromaticity
Feb 20, Tuesday	-
Feb 21, Wednesday	Nomenclature and classification of dienes: isolated, conjugated and cumulated dienes. Structure of butadiene
Feb 22, Thursday	-
Feb 23, Friday	-
Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	Chemical reactions -1,2 and 1,4 additions (Electrophilic & free radical mechanism),Diels-Alder reaction,
Feb 27, Tuesday	
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	Nomenclature, structure and bonding in alkynes, Methods of formation.
Mar 6, Tuesday	-
Mar 7, Wednesday	Chemical reactions of alkynes,acidity of alkynes
Mar 8, Thursday	-
Mar 9, Friday	-
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	Mechanism of electrophilic and nucleophilic addition reactions, hydroboration-oxidation of alkynes
Mar 13, Tuesday	

Mar 14, Wednesday	Revision of dienes and alkynes
Mar 15, Thursday	-
Mar 16, Friday	-
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	Test of dienes and alkynes
Mar 20, Tuesday	-
Mar 21, Wednesday	Nomenclature and classes of alkyl halides
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	methods of formation ,chemical reactions Of chemical reactions
Mar 27, Tuesday	
Mar 28, Wednesday	Mechanisms and stereochemistry of nucleophilic substitution reactions of alkyl halides , S_N2 and S_N1 reactions with energy profile diagrams.
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	Methods of formation and reactions of aryl halides
Apr 3, Tuesday	
Apr 4, Wednesday	The addition elimination and the elimination-addition mechanisms of nucleophilic aromatic substitution reactions
Apr 5, Thursday	-
Apr 6, Friday	-
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	Relative reactivities of alkyl halides vs allyl, vinyl and aryl

	halides.
Apr 10, Tuesday	
Apr 11, Wednesday	Revision of alkyl halides and aryl halide
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	Test of alkyl halide and aryl halide
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	-
Apr 20, Friday	-
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	Revision of alkenes
Apr 24, Tuesday	-
Apr 25, Wednesday	Revision of arenes and aromaticity
Apr 26, Thursday	-
Apr 27, Friday	-
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor: Ms.Swatantra Tripathi

Class: B.Sc.- Biotechnology 3rd Year(6th sem)

Name of Subject: Chemistry Practicals (Group-B)

Jan 1, 2018 to Jan 6, 2018 (Week 1)	
Jan 1, Monday	-
Jan 2, Tuesday	-
Jan 3, Wednesday	-
Jan 4, Thursday	-
Jan 5, Friday	<i>Guru govind singh jayanti</i>
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	PRACTICAL: To prepare S-Benzyl-iso-thiouonium chloride from thiourea
Jan 11, Thursday	PRACTICAL: To determine the strength of the given acid solution (mono and dibasic acid) conductometrically
Jan 12, Friday	-
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	PRACTICAL: To determine the strength of the given acid solution (mono and dibasic acid) conductometrically
Jan 18, Thursday	PRACTICAL: To determine the solubility and solubility product of a sparingly soluble electrolyte conductometrically
Jan 19, Friday	-
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>

Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	PRACTICAL: To determine the solubility and solubility product of a sparingly soluble electrolyte conductometrically
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-
Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas jayanti)</i>
Feb 1, Thursday	PRACTICAL: To determine the strength of given acid solution (mono and dibasic acid)/KMnO ₄ – Mohr salt potentiometrically.
Feb 2, Friday	-
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	PRACTICAL: To determine the strength of given acid solution (mono and dibasic acid)/KMnO ₄ – Mohr salt potentiometrically
Feb 8, Thursday	PRACTICAL: To determine the strength of given acid solution (mono and dibasic acid)/KMnO ₄ – Mohr salt potentiometrically
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	PRACTICAL: To determine the molecular weight of a non-volatile solute by Rast method.
Feb 15, Thursday	PRACTICAL: To determine the molecular weight of a non-volatile solute by Rast method.
Feb 16, Friday	-
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	

Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	PRACTICAL: To standardize the given acid solution (mono and dibasic acid) PH metrically.
Feb 22, Thursday	PRACTICAL: To standardize the given acid solution (mono and dibasic acid) pH metrically.
Feb 23, Friday	-
Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	PRACTICAL: Determination of R_f values and identification of organic compounds (a) Separation of green leaf pigments (spinach leaves may be used)by paper chromatographic method
Mar 8, Thursday	PRACTICAL: Determination of R_f values and identification of organic compounds (a) Separation of green leaf pigments (spinach leaves may be used)by paper chromatographic method
Mar 9, Friday	-
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	PRACTICAL: Separation of a mixture of coloured organic compounds using common organic solvents by TLC.
Mar 15, Thursday	PRACTICAL: Separation of a mixture of coloured organic

	compounds using common organic solvents by TLC.
Mar 16, Friday	-
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	PRACTICAL: To determine the strength of the given acid solution (mono and dibasic acid) conductometrically
Mar 22, Thursday	PRACTICAL: To determine the solubility and solubility product of a sparingly soluble electrolyte conductometrically
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-
Mar 28, Wednesday	PRACTICAL: To prepare m-nitroaniline from m-dinitrobenzene.
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	PRACTICAL: revision
Apr 5, Thursday	PRACTICAL: revision
Apr 6, Friday	-
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	PRACTICAL: revision

Apr 12, Thursday	PRACTICAL: revision
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	PRACTICAL: revision
Apr 20, Friday	
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	PRACTICAL: revision
Apr 26, Thursday	PRACTICAL: revision
Apr 27, Friday	-
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor : Ms. Swatantra Tripathi

Class: B.Sc. Biotech 1ST Year(2nd sem)

Name of Subject: Chemistry Practicals (Group-B)

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	PRACTICAL To prepare Iodoform from ethanol (or acetone)
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	PRACTICAL: To prepare <i>m</i> -Dinitrobenzene from nitrobenzene (use 1:2 conc. HNO ₃ -H ₂ SO ₄ mixture if fuming HNO ₃ is not available)
Jan 13, Saturday	PRACTICAL: To prepare p-Bromoacetanilide from acetanilide
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	PRACTICAL: To prepare Dibenzalacetone from acetone and benzaldehyde
Jan 20, Saturday	PRACTICAL: To prepare Aspirin from salicylic acid
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	PRACTICAL: To study the process of sublimation of camphor and phthalic acid,

Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	PRACTICAL: Qualitative Analysis of Pb ⁺² Inorganic cation by paper chromatography
Feb 3, Saturday	PRACTICAL: Qualitative Analysis of Cu ⁺² Inorganic cation by paper chromatography
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	-
Feb 8, Thursday	-
Feb 9, Friday	PRACTICAL: Qualitative Analysis of Ni ⁺² Inorganic cation by paper chromatography
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	PRACTICAL: Qualitative Analysis of Cl ⁻ Inorganic anion by paper chromatography
Feb 17, Saturday	PRACTICAL: Qualitative Analysis of Br ⁻ Inorganic anion by paper chromatography
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	-
Feb 22, Thursday	-
Feb 23, Friday	PRACTICAL: Qualitative Analysis of NO ₃ ⁻ Inorganic anion by paper chromatography

Feb 24, Saturday	PRACTICAL: To prepare Iodoform from ethanol (or acetone)
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	-
Mar 8, Thursday	-
Mar 9, Friday	PRACTICAL: To prepare <i>m</i> -Dinitrobenzne from nitrobenzene (use 1:2 conc. HNO ₃ -H ₂ SO ₄ mixture if fuming HNO ₃ is not available)
Mar 10, Saturday	PRACTICAL: : To prepare p-Bromoacetanilide from acetanilide
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	PRACTICAL: Qualitative Analysis of Pb ⁺² Inorganic cation by paper chromatography
Mar 17, Saturday	PRACTICAL: Qualitative Analysis of Cu ⁺² Inorganic cation by paper chromatography
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	-
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>

Mar 24, Saturday	PRACTICAL: Qualitative Analysis of Ni ²⁺ Inorganic cation by paper chromatography
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-
Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	PRACTICAL: Qualitative Analysis of Cl ⁻ Inorganic anion by paper chromatography
Mar 31, Saturday	PRACTICAL: Qualitative Analysis of Br ⁻ Inorganic anion by paper chromatography
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	PRACTICAL: Revision
Apr 7, Saturday	PRACTICAL: Revision
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	

Apr 20, Friday	PRACTICAL: Revision
Apr 21, Saturday	PRACTICAL: Revision
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	-
Apr 26, Thursday	-
Apr 27, Friday	PRACTICAL: Revision
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor : Ms. Swatantra Tripathi

Class: B.Sc.- Biotechnology 2nd year(4th sem)

Name of Subject: Inorganic Chemistry

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	Introduction to lanthenides and electronic configuration
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	oxidation states and ionic radii
Jan 11, Thursday	-
Jan 12, Friday	-
Jan 13, Saturday	Lanthanide contraction, and its effects
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	TEST AND ASSIGNMENT SUBMISSION OF LANTHENIDE
Jan 18, Thursday	-
Jan 19, Friday	-
Jan 20, Saturday	complex formation, occurrence and isolation, lanthanide compounds.
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	General features and chemistry of actinides
Jan 29, 2018 to Feb 3, 2018 (Week 5)	

Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	-
Feb 3, Saturday	Comparision of various properties of lanthanides and actinides
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	chemistry of separation of Np, Pu and Am from U
Feb 8, Thursday	-
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	Comparison of properties of Lanthanides and Actinides and with transition elements .
Feb 15, Thursday	-
Feb 16, Friday	-
Feb 17, Saturday	Revision of actinides
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	TEST AND ASSIGNMENT SUBMISSION OF ACTINIDES
Feb 22, Thursday	-
Feb 23, Friday	-
Feb 24, Saturday	Introduction to acid and basic radicals
Feb 26, 2018 to Mar 3, 2018 (Week 9)	

Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	Chemistry of analysis of various acidic radicals
Mar 8, Thursday	-
Mar 9, Friday	-
Mar 10, Saturday	Chemistry of analysis of various acidic radicals
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	TEST AND ASSIGNMENT SUBMISSION OF ACIDIC RADICALS
Mar 15, Thursday	-
Mar 16, Friday	-
Mar 17, Saturday	Chemistry of identification of acid radicals in typical combinations,
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	-
Mar 20, Tuesday	-
Mar 21, Wednesday	Chemistry of analysis of various groups of basic radicals
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	Chemistry of analysis of group 1&2 of basic radicals
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-

Mar 27, Tuesday	-
Mar 28, Wednesday	Chemistry of analysis of groups 3&4 of basic radicals
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	Chemistry of analysis of group 5 &6 of basic radicals
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	Theory of precipitation, co-precipitation
Apr 5, Thursday	-
Apr 6, Friday	-
Apr 7, Saturday	Post- precipitation, purification of precipitates.
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	Test of analysis of basic radical
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-
Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	-
Apr 20, Friday	-
Apr 21, Saturday	REVISION OF LANTHENIDES
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-

Apr 25, Wednesday	REVISION OF ACTINIDES
Apr 26, Thursday	-
Apr 27, Friday	-
Apr 28, Saturday	Revision Of Theory of Qualitative and Quantitative Inorganic Analysis-I

Lesson Plan

Name of the Assistant Professor : Ms. Swatantra Tripathi

Class: B.Sc.-Biotech 2nd Year(4TH Sem)

Name of Subject: Physical Chemistry

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	Second law of thermodynamics, need for the law, different statements of the law, Carnot's cycles and its efficiency, Carnot's theorem,
Jan 9, Tuesday	Thermodynamics scale of temperature. Concept of entropy – entropy as a state function, entropy as a function of V & T,
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	-
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	entropy as a function of P & T entropy change in physical change, entropy as a criteria of spontaneity and equilibrium Entropy change in ideal gases and mixing of gases.
Jan 16, Tuesday	Test of thermodynamics-III
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	-
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	Third law of thermodynamics: Nernst heat theorem, statement of concept of residual entropy, evaluation of absolute entropy from heat capacity data.

Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-
Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	Gibbs and Helmholtz functions; Gibbs function (G) and Helmholtz function (A) as thermodynamic quantities, A & G as criteria for thermodynamic equilibrium and spontaneity, their advantage over entropy change.
Jan 30, Tuesday	Variation of G and A with P, V and T.
Jan 31, Wednesday	<i>Holiday (Guru Ravidas jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	-
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	TEST AND ASSIGNMENT SUBMISSION OF THERMODYNAMICS-IV
Feb 6, Tuesday	Electrolytic and Galvanic cells – reversible & Irreversible cells , conventional representation of electrochemical cells.
Feb 7, Wednesday	-
Feb 8, Thursday	-
Feb 9, Friday	-
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	EMF of cell and its measurement, Weston standard cell, activity and activity coefficients .
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	-
Feb 17, Saturday	-

Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	Calculation of thermodynamic quantities of cell reaction (ΔG , ΔH , ΔS & K)
Feb 20, Tuesday	Types of reversible electrodes – metal- metal ion gas electrode, metal –insoluble salt- anion and redox electrodes. Standard Hydrogen electrode, reference electrodes,
Feb 21, Wednesday	-
Feb 22, Thursday	-
Feb 23, Friday	-
Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	standard electrodes potential, sign conventions,electrochemical series and its applications,Nernst equations,
Feb 27, Tuesday	derivation of cell EMF and single electrode potential- metal-metal electrode,amalgam,Gas electrode,
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	oxidation –reduction electrode,metal metal insoluble salt-salt anion
Mar 6, Tuesday	Revision of Electrochemistry – III
Mar 7, Wednesday	-
Mar 8, Thursday	-
Mar 9, Friday	-
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	Test of Electrochemistry – III

Mar 13, Tuesday	Introduction of Concentration cells, Types of concentration cell
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	-
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	Electrode Concentration cells without transference
Mar 20, Tuesday	Electrolytic Concentration cells without transference
Mar 21, Wednesday	-
Mar 22, Thursday	-
Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	Concentration cells with transference
Mar 27, Tuesday	liquid junction potential
Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	-
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	Determination of activities and activity coefficient from EMF measurements
Apr 3, Tuesday	Determination of valency of ions from EMF measurements, Determination of solubility and solubility product of sparingly soluble salt from EMF measurements
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	-
Apr 7, Saturday	-

Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	Determination of pH using Hydrogen electrode,
Apr 10, Tuesday	Quinhydrone electrode and glass electrode by potentiometric methods.
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	TEST of electrochemistry-IV
Apr 17, Tuesday	Revision of Thermodynamics -III
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	-
Apr 20, Friday	-
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	Revision of Thermodynamics -IV
Apr 24, Tuesday	Revision electrochemistry-III
Apr 25, Wednesday	-
Apr 26, Thursday	-
Apr 27, Friday	-
Apr 28, Saturday	-

Lesson Plan

Name of the Assistant Professor: Ms . Swatantra Tripathi

Class: B.Sc. Biotech 1ST Year (2nd SEM)

Name of Subject: Inorganic Chemistry

Jan 6, 2018 (Week 1)	
Jan 6, Saturday	-
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	-
Jan 9, Tuesday	-
Jan 10, Wednesday	-
Jan 11, Thursday	-
Jan 12, Friday	Hydrogen Bonding – Definition, Types, effects of hydrogen bonding on properties of substances,
Jan 13, Saturday	-
Jan 15, 2018 to Jan 20, 2018 (Week 3)	
Jan 15, Monday	-
Jan 16, Tuesday	-
Jan 17, Wednesday	-
Jan 18, Thursday	-
Jan 19, Friday	Application of H-bonding , various types of Vander Waals Forces
Jan 20, Saturday	-
Jan 22, 2018 to Jan 27, 2018 (Week 4)	
Jan 22, Monday	<i>Holiday (Basant Panchami)</i>
Jan 23, Tuesday	-
Jan 24, Wednesday	<i>Holiday (Sir Chhotu Ram Jayanti)</i>
Jan 25, Thursday	-
Jan 26, Friday	<i>Holiday (Republic Day)</i>
Jan 27, Saturday	-

Jan 29, 2018 to Feb 3, 2018 (Week 5)	
Jan 29, Monday	-
Jan 30, Tuesday	-
Jan 31, Wednesday	<i>Holiday (Guru Ravidas jayanti)</i>
Feb 1, Thursday	-
Feb 2, Friday	Metallic Bond- Brief introduction to metallic bond, band theory of metallic bond
Feb 3, Saturday	-
Feb 5, 2018 to Feb 10, 2018 (Week 6)	
Feb 5, Monday	-
Feb 6, Tuesday	-
Feb 7, Wednesday	-
Feb 8, Thursday	-
Feb 9, Friday	Semiconductors- Introduction, types and applications
Feb 10, Saturday	<i>Holiday (Maharshi Dayanand Saraswati Jayanti)</i>
Feb 12, 2018 to Feb 17, 2018 (Week 7)	
Feb 12, Monday	-
Feb 13, Tuesday	<i>Holiday (Maha Shivratri)</i>
Feb 14, Wednesday	-
Feb 15, Thursday	-
Feb 16, Friday	Test and assignment of H-bonding and vanderwaal forces ,Metallic bonds and semiconductors.
Feb 17, Saturday	-
Feb 19, 2018 to Feb 24, 2018 (Week 8)	
Feb 19, Monday	-
Feb 20, Tuesday	-
Feb 21, Wednesday	-
Feb 22, Thursday	-
Feb 23, Friday	Comparative study of the s- block elements including , diagonal relationships, salient features of hydrides

Feb 24, Saturday	-
Feb 26, 2018 to Mar 3, 2018 (Week 9)	
Feb 26, Monday	-
Feb 27, Tuesday	-
Feb 28, Wednesday	<i>Vacation</i>
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	
Mar 5, 2018 to Mar 10, 2018 (Week 10)	
Mar 5, Monday	-
Mar 6, Tuesday	-
Mar 7, Wednesday	-
Mar 8, Thursday	-
Mar 9, Friday	solvation and complexation tendencies including their function in biosystems . Assignment on s-block elements
Mar 10, Saturday	-
Mar 12, 2018 to Mar 17, 2018 (Week 11)	
Mar 12, Monday	-
Mar 13, Tuesday	-
Mar 14, Wednesday	-
Mar 15, Thursday	-
Mar 16, Friday	Chemical properties of the noble gases with emphasis on their low chemical reactivity
Mar 17, Saturday	-
Mar 19, 2018 to Mar 24, 2018 (Week 12)	
Mar 19, Monday	
Mar 20, Tuesday	-
Mar 21, Wednesday	-
Mar 22, Thursday	-

Mar 23, Friday	<i>Holiday (Shaheedi Diwas)</i>
Mar 24, Saturday	-
Mar 26, 2018 to Mar 31, 2018 (Week 13)	
Mar 26, Monday	-
Mar 27, Tuesday	-
Mar 28, Wednesday	-
Mar 29, Thursday	<i>Holiday (Mahavir Jayanti)</i>
Mar 30, Friday	chemistry of xenon, structure and bonding of fluorides, oxides & oxyfluorides of xenon.
Mar 31, Saturday	-
Apr 2, 2018 to Apr 7, 2018 (Week 14)	
Apr 2, Monday	-
Apr 3, Tuesday	-
Apr 4, Wednesday	-
Apr 5, Thursday	-
Apr 6, Friday	Assignment and Test of chemistry of noble gases
Apr 7, Saturday	-
Apr 9, 2018 to Apr 14, 2018 (Week 15)	
Apr 9, Monday	-
Apr 10, Tuesday	-
Apr 11, Wednesday	-
Apr 12, Thursday	-
Apr 13, Friday	<i>Holiday (Vaisakhi)</i>
Apr 14, Saturday	Holiday (Dr. B. R. Ambedkar's Jayanti)
Apr 16, 2018 to Apr 21, 2018 (Week 16)	
Apr 16, Monday	-

Apr 17, Tuesday	-
Apr 18, Wednesday	<i>Holiday (Lord Parshu Ram Jayanti)</i>
Apr 19, Thursday	
Apr 20, Friday	Revision of H-bonding and vanderwaal forces
Apr 21, Saturday	-
Apr 23, 2018 to Apr 28, 2018 (Week 17)	
Apr 23, Monday	-
Apr 24, Tuesday	-
Apr 25, Wednesday	-
Apr 26, Thursday	-
Apr 27, Friday	Revision of metallic bond and semi conductors
Apr 28, Saturday	-