

**Lesson Plan Format**  
**18 weeks (From January 2018 to April 2018)**

Name of Assistant /Associate Professor : Dr. Ritu.....  
 Class and Section : B.Sc.II. 4th Semester.....  
 Subject : Organic chemistry.....

Lecture on Monday, Tuesday, Wednesday, Thursday

<b>Week 1(January 1-6)</b>	
<b>Chapter 1</b>	
01/01/2018	Holiday
02/01/2018	
03/01/2018	
04/01/2018	
05/01/2018	
06/01/2018	
<b>Week 2(January 8-13)</b>	
<b>Chapter</b>	
08/01/2018	Molecular Vibrations, Hooke's law, Selection Rules
09/01/2018	Intensity and Position of I.R. Bands, measurement of I.R. Spectrum, Fingerprint region
10/01/2018	characteristic absorptions of various functional groups
11/01/2018	Interpretation of I.R. Spectra of simple organic Compounds
12/01/2018	
13/01/2018	
<b>Week 3(January 15-20)</b>	
<b>Chapter</b>	
15/01/2018	Applications of I.R. Spectroscopy in structure elucidation of simple organic compounds
16/01/2018	Applications of I.R. Spectroscopy
17/01/2018	Applications of I.R. Spectroscopy
18/01/2018	Applications of I.R. Spectroscopy
19/01/2018	
19/01/2018	
20/01/2018	
<b>Week 4(January 22-27)</b>	
<b>Chapter</b>	
22/01/2018	Holiday
23/01/2018	Structure and Nomenclature of Amines
24/01/2018	Physical Properties
25/01/2018	separation of a mixture of Primary, Secondary and Tertiary amines
26/01/2018	Holiday

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27/01/2018
<b>Week 5 (January 29- Feb 3)</b>
<b>Chapter</b>
29/01/2018 Structural features affecting basicity of amines
30/01/2018 Preparation of alkyl and aryl amines
31/01/2018 Reduction of nitro compounds
01/02/2018 Reduction of nitriles
02/02/2018
03/02/2018
<b>Week 6 (Feb 5-10)</b>
<b>Chapter</b>
05/02/2018 Reductive amination of aldehydic and ketonic compounds
06/02/2018 Gabriel - phthalimide reaction
07/02/2018 Hofmann - bromamide reaction
08/02/2018 Electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acids
09/02/2018
10/02/2018
<b>Week 7 (Feb 12-17)</b>
<b>Chapter</b>
12/02/2017 Mechanism of diazotisation
13/02/2017 - Holiday
14/02/2017 Structure of Benzene diazonium chloride
15/02/2017 Replacement of diazo group by H, OH, F, Cl
16/02/2017
17/02/2017
<b>Week 8 (Feb 19-24)</b>
<b>Chapter</b>
19/02/2018 Replacement of diazo group by Br, I
20/02/2018 Replacement of diazo group by NO <sub>2</sub> , CN group
21/02/2018 Reduction of diazonium salt to hydroxylamine
22/02/2018 Coupling Reaction
23/02/2018
24/02/2018
<b>Week 9 (Feb 26-March 03)</b>
<b>Chapter</b>
26/02/2018 Synthetic Applications of Coupling Reactions
27/02/2018 Synthetic Applications of Coupling Reactions
28/02/2018
01/03/2018 } Holiday

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02/03/2018
03/03/2018
<b>Week 10(March 5-10)</b>
<b>Chapter</b>
05/03/2018 Preparation of nitro alkanes
06/03/2018 Preparation of nitro alkenes
07/03/2018 chemical Reactions of nitroalkanes
08/03/2018 chemical Reactions of nitroalkenes
09/03/2018
10/03/2018
<b>Week 11(March 12-17)</b>
<b>Chapter</b>
12/03/2018 mechanism of electrophilic substitution reactions into nitroarenes
13/03/2018 Reduction in acidic medium
14/03/2018 Reduction in Neutral medium
15/03/2018 Reduction in alkaline medium
16/03/2018
17/03/2018
<b>Week 12(March 19-24)</b>
<b>Chapter</b>
19/03/2018 Nomenclature and structure of carbonyl group
20/03/2018 Synthesis of aldehyde and ketones
21/03/2018 With particular reference to the synthesis of aldehyde from acid chloride
22/03/2018 Advantage of oxidation of alcohol with chromium trioxide (Sarett Reagent)
23/03/2018
24/03/2018
<b>Week 13(March 26-31)</b>
<b>Chapter</b>
26/03/2018 Advantage of oxidation of alcohol with Pyridinium chlorochromate
27/03/2018 Advantage of oxidation of alcohol with Pyridium dichromate
28/03/2018 Physical Properties
29/03/2018 — Holiday
30/03/2018
31/03/2018
<b>Week 14(April 02-07)</b>
<b>Chapter</b>
02/04/2018 Comparison of Reactivities of aldehyde and ketones
03/04/2018 Mechanism of nucleophilic additions to Carbonyl group
04/04/2018 Mechanism with particular emphasis on benzoin

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