

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

Name of Assistant / Associate Professor : Dr. Vijay Kiran.....  
 Class and Section : B. Sc - III (Med. & N. Med.)  
 Subject : Inorganic & Physical Chemistry  
 (Mon - Thursday)

<b>Week 1 (January 1-6)</b>	
Chapter 1	
01/01/2018	Introduction regarding Syllabus and paper
02/01/2018	Organometallic Chemistry Introduction
03/01/2018	Introduction regarding Syllabus
04/01/2018	Concept of Electronic Spectrum
05/01/2018	
06/01/2018	
<b>Week 2 (January 8-13)</b>	
Chapter	
08/01/2018	Classification of Organometallic compounds
09/01/2018	Study of organometallic compounds of Li
10/01/2018	Pot. energy curves for B.MO & ABMO
11/01/2018	Qualitative description of Selection rules & Franck-Condon Principle
12/01/2018	
13/01/2018	
<b>Week 3 (January 15-20)</b>	
Chapter	
15/01/2018	Study of organometallic compounds of Al
16/01/2018	" " " " " Hg
17/01/2018	$\sigma$ , $\pi$ & $n$ MO energy levels & their transitions
18/01/2018	Revision and problems on Electronic Spectrum
19/01/2018	
19/01/2018	
20/01/2018	
<b>Week 4 (January 22-27)</b>	
Chapter	
22/01/2018	Holiday (Basant Panchami)
23/01/2018	Study of Organometallic compounds of Sn
24/01/2018	Introduction of Photochemistry
25/01/2018	Laws of Photochemistry
26/01/2018	Holiday (Republic Day)

27/01/2018	
<b>Week 5 (January 29- Feb 3)</b>	
<b>Chapter</b>	
29/01/2018	Metal-ethylenic complexes
30/01/2018	Metal Carbonyl
31/01/2018	Jabalonski Diagram depicting various processes
01/02/2018	Holiday (Maharishi Dayanand Saraswati Jayanti)
02/02/2018	
03/02/2018	
<b>Week 6 (Feb 5-10)</b>	
<b>Chapter</b>	
05/02/2018	Metal Carbonyls examples
06/02/2018	Revision and problems on Organometallic Compds
07/02/2018	Quantum yield and photosensitized reactions
08/02/2018	Written test of Electronic spectrum & Photochemistry
09/02/2018	
10/02/2018	Holiday
<b>Week 7 (Feb 12-17)</b>	
<b>Chapter</b>	
12/02/2017	Introduction of Acids and Bases
13/02/2017	Holiday (Mahashivratri)
14/02/2017	Introduction on Solutions
15/02/2017	Colligative Properties & Raoult's Law
16/02/2017	
17/02/2017	
<b>Week 8 (Feb 19-24)</b>	
<b>Chapter</b>	
19/02/2018	Theories of Acids and Bases
20/02/2018	Relative Strength of Acids and bases
21/02/2018	Relative Lowering of Vapour Pressure & Numericals
22/02/2018	Osmotic Pressure & its problems
23/02/2018	
24/02/2018	
<b>Week 9 (Feb 26-March 03)</b>	
<b>Chapter</b>	
26/02/2018	Concept of Hard and Soft Acids & Bases
27/02/2018	Symbiosis and Revision of chapters
28/02/2018	Holi Break (28/2/18 to 03/3/18)
01/03/2018	"

02/03/2018	(Holi Break)
03/03/2018	
<b>Week 10(March 5-10)</b>	
<b>Chapter</b>	
05/03/2018	Written test of two units
06/03/2018	Introduction of Bioinorganic chemistry
07/03/2018	Relationship between mol. wt. and elevation in boiling pt.
08/03/2018	Depression in Freezing point & its Numericals
09/03/2018	
10/03/2018	
<b>Week 11(March 12-17)</b>	
<b>Chapter</b>	
12/03/2018	Metalloporphyrins (Haemoglobin)
13/03/2018	Metalloporphyrins (Myoglobin)
14/03/2018	Experimental methods for determining Colligative Properties
15/03/2018	Degree of association and dissociation of solutes
16/03/2018	
17/03/2018	
<b>Week 12(March 19-24)</b>	
<b>Chapter</b>	
19/03/2018	Biological Role of alkali and alkaline earth metals
20/03/2018	Nitrogen Fixation
21/03/2018	Revision and problems on Solutions
22/03/2018	Test of Solutions
23/03/2018	Holiday (Shahidi Diwas)
24/03/2018	
<b>Week 13(March 26-31)</b>	
<b>Chapter</b>	
26/03/2018	Revision of chapter Biomorganic Chemistry
27/03/2018	Power point presentations on the topic
28/03/2018	Introduction on Phase Equilibrium
29/03/2018	Holiday (Mahavir Jayanti)
30/03/2018	
31/03/2018	
<b>Week 14(April 02-07)</b>	
<b>Chapter</b>	
02/04/2018	Introduction and nomenclature of Silicones
03/04/2018	Preparation and Structure of Silicones
04/04/2018	Different terms & examples regarding Phase equilibrium

05/04/2018	Thermodynamic derivation of Gibbs phase rule
06/04/2018	
07/04/2018	
<b>Week 15(April 09-14)</b>	
<b>Chapter</b>	
09/04/2018	Properties and Uses of Silicones
10/04/2018	Introduction and Nomenclature of Phosphazenes
11/04/2018	Phase Equilibria of One Component System
12/04/2018	Phase diagram of H <sub>2</sub> O and Sulphur
13/04/2018	Holiday (Bashaki)
14/04/2018	Holiday (Bhimrao Ambedkar Jayanti)
<b>Week 16(April 16-21)</b>	
<b>Chapter</b>	
16/04/2018	Structure and Preparation of Phosphazenes
17/04/2018	Properties and use of Phosphazenes
18/04/2018	Holiday (Perashuram Jayanti)
19/04/2018	Phase diagram of Two Component System (Pb-Ag)
20/04/2018	
21/04/2018	
<b>Week 17(April 23-28)</b>	
<b>Chapter</b>	
23/04/2017	Revision and problems of the chapter
24/04/2017	Test of Silicones & Phosphazenes
25/04/2017	Revision and Problems on Phase Equilibrium
26/04/2017	Discussion & Problems on whole Syllabus
27/04/2017	
28/04/2018	
<b>Week 18(April 29-30)</b>	
<b>Chapter</b>	
30/04/2018	Oral Test and Discussion of whole Syllabus