

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

Name of Assistant / Associate Professor

... Dr. Vijay Kiran ...

Class and Section

... B.Sc.-IV (Med. & N.Med.)

Subject

... Inorganic & Physical Chemistry

(Mon-Thursday)

<b>Week 1 (January 1-6)</b>	
<b>Chapter 1</b>	
01/01/2018	Introduction of syllabus and pattern of paper
02/01/2018	Hydrogen Bonding and its applications
03/01/2018	Introduction regarding syllabus & pattern of paper
04/01/2018	Chemical Kinetics Introduction
05/01/2018	
06/01/2018	
<b>Week 2 (January 8-13)</b>	
<b>Chapter</b>	
08/01/2018	Vander Waals forces & its problems
09/01/2018	Metallic bond and band theory
10/01/2018	Rate of reaction & rate equation
11/01/2018	Factors influencing rate of a reaction
12/01/2018	
13/01/2018	
<b>Week 3 (January 15-20)</b>	
<b>Chapter</b>	
15/01/2018	Semiconductors - types and applications
16/01/2018	Oral Test and Discussion on the chapter
17/01/2018	Order of a reaction & units of rate constant
18/01/2018	Integrated rate expression for zero & first order
19/01/2018	
19/01/2018	
20/01/2018	
<b>Week 4 (January 22-27)</b>	
<b>Chapter</b>	
22/01/2018	Holiday (Basant Panchami)
23/01/2018	Introduction of s-block elements
24/01/2018	Integrated rate expression for first & third order
25/01/2018	Methods of determination of order of rxn
26/01/2018	Holiday (Republic Day)

27/01/2018	
<b>Week 5 (January 29- Feb 3)</b>	
<b>Chapter</b>	
29/01/2018	Diagonal Relationship
30/01/2018	Salient features of hydrides
31/01/2018	Effect of temperature of the rate of rxn - Arrhenius equation
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	Solvation and complexation tendencies
06/02/2018	Role of s-block elements in biosystems
07/02/2018	Theories of reaction rate
08/02/2018	Transition state theory of bimolecular reactions
09/02/2018	
10/02/2018	Holiday
<b>Week 7 (Feb 12-17)</b>	
<b>Chapter</b>	
12/02/2017	Noble gases and their Properties
13/02/2017	Holiday (Mahashivratri)
14/02/2017	Revision and problems on Chemical Kinetics
15/02/2017	Oral Test of Chemical Kinetics (on Board also)
16/02/2017	
17/02/2017	
<b>Week 8 (Feb 19-24)</b>	
<b>Chapter</b>	
19/02/2018	Chemistry of Xenon Compounds
20/02/2018	Revision and problems on Section-B
21/02/2018	Introduction of Electrochemistry
22/02/2018	Different types of conductances & their variation with conc.
23/02/2018	
24/02/2018	
<b>Week 9 (Feb 26-March 03)</b>	
<b>Chapter</b>	
26/02/2018	Comparative study of p-block elements
27/02/2018	Boron Family
28/02/2018	Holi Break (28/2/18 to 03/03/18)
01/03/2018	

02/03/2018	(Holi Break)
03/03/2018	
<b>Week 10(March 5-10)</b>	
<b>Chapter</b>	
05/03/2018	Diborane and Borazine
06/03/2018	Carbon Family
07/03/2018	Arrhenius Theory of Ionization & Ostwald's dilution Law
08/03/2018	Debye-Huckel Onsager Equation
09/03/2018	
10/03/2018	
<b>Week 11(March 12-17)</b>	
<b>Chapter</b>	
12/03/2018	Silicates and Carbides
13/03/2018	Silicones and their use
14/03/2018	Transport Number
15/03/2018	Kohlrausch's Law
16/03/2018	
17/03/2018	
<b>Week 12(March 19-24)</b>	
<b>Chapter</b>	
19/03/2018	Nitrogen Family - general characteristics
20/03/2018	Oxides of N & P
21/03/2018	Effect of viscosity, temperature & Pressure on Conductance.
22/03/2018	Application of Kohlrausch's Law
23/03/2018	Holiday (Mahavir Jayanti)
24/03/2018	
<b>Week 13(March 26-31)</b>	
<b>Chapter</b>	
26/03/2018	Oxyacids of N & P
27/03/2018	Allotropes of Phosphorus
28/03/2018	Applications of Conductivity Measurements
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	General features of Oxygen Family
03/04/2018	Oxides and Oxyacids of Sulphur
04/04/2018	Conductometric Titrations

05/04/2018	Concept of pH and pKa
06/04/2018	
07/04/2018	
<b>Week 15(April 09-14)</b>	
<b>Chapter</b>	
09/04/2018	H <sub>2</sub> O <sub>2</sub> - Structure, properties and uses
10/04/2018	Halogen Family
11/04/2018	Buffer Solutions & Numericals
12/04/2018	Henderson-Hassel equation
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	Interhalogens - types and properties
17/04/2018	Hydro & oxyacids of chlorine
18/04/2018	Holiday (Perakuram Jayanti)
19/04/2018	Mechanism of Buffer Action
20/04/2018	
21/04/2018	
<b>Week 17(April 23-28)</b>	
<b>Chapter</b>	
23/04/2017	Revision and problem of p-block elements
24/04/2017	Test of p-block elements
25/04/2017	Discussion and Revision of Electrochemistry
26/04/2017	Test of Full Syllabus
27/04/2017	
28/04/2018	
<b>Week 18(April 29-30)</b>	
<b>Chapter</b>	
30/04/2018	Discussion of topics of whole syllabus