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

Name of Assistant /Associate Professor : Ms. Renu Tushir
Class and Section : M. Sc. Chemistry (final) - Inorganic special
Subject Inorganic special IV., (organometallic chemistry)

Week 1(January 1-6)	
Chapter 1	
01/01/2018	Introduction of Organometallic compounds.
02/01/2018	classification of organometallic compounds.
03/01/2018	Alkyl and Aryls of Transition metals.
04/01/2018	Routes of synthesis, stability
05/01/2018 ✓	~~National Holiday~~ Revision of the topics
06/01/2017	Organocopper in Organic synthesis.
Week 2(January 8-13)	
Chapter	
08/01/2018	Transition Metal π- complexes
09/01/2018	Test conducted based on above topics
10/01/2018	properties and nature of bonding.
11/01/2018	Nucleophillic and electrophillic attack on ligands.
12/01/2018	And Organic Synthesis
13/01/2018	Group Discussion on these topics.
Week 3(January 15-20)	
Chapter	
15/01/2018	compounds of Transition Metal-Carbon multiple bonds.
16/01/2018	Carbene complexes
17/01/2018	Fischer type and Schrock type carbene.
18/01/2018	Synthesis
19/01/2018	Test will be conducted.
19/01/2018	Discussion of the test.
20/01/2018	Synthesis of carbene complexes.
Week 4(January 22-27)	
Chapter	
22/01/2018	✓National Holiday
23/01/2018	Reactions
24/01/2018	Structures & bonding
25/01/2018	Test will be conducted
26/01/2018	Discussion of the ~~test~~ National Holiday

27/01/2018	Transition metal- carbyne complexes.
Week 5 (January29- Feb3)	
Chapter	
29/01/2018	Synthesis
30/01/2018	Synthesis, reactions
31/01/2018	test will be conducted
01/02/2018	Discussion of the test
02/02/2018	Group Discussion
03/02/2018	Again Revision
Week 6(Feb 5-10)	
Chapter	
05/02/2018	Structural features
06/02/2018	Introduction of fluxional OMC
07/02/2018	Fluxionality
08/02/2018	Dynamic Equilibria in compounds- Such
09/02/2018	as acyclic alkenes.
10/02/2018	National Holiday
Week 7(Feb 12-17)	
Chapter	
12/02/2017	Revision of the above topics
13/02/2017	National Holiday
14/02/2017	test will be conducted
15/02/2017	Discussion of the test
16/02/2017	Dynamic equilibrium in σ-bonded and π-bonded
17/02/2017	Problems will be taking in the class.
Week 8(Feb 19-24)	
Chapter	
19/02/2018	Rotation of the ligands on metals
20/02/2018	ligand scrambling on metals.
21/02/2108	Revision of all topics will be going on.
22/02/2018	problems will be taking in the class.
23/02/2018	test will be conducted
24/02/2018	Discussion of the test
Week 9(Feb 26-March03)	
Chapter	
26/02/2018	Group Discussion
27/02/2018	Assignment Work
28/02/2018	Holi Break
01/03/2018	National Holiday

02/03/2018	Holi Break
03/03/2018	Holi Break
Week 10(March 5-10)	
Chapter	
05/03/2018	Applications of transition metal OMC as Catalysts.
06/03/2018	Introduction of polymerization
07/03/2018	Zeigler - Natta polymerization
08/03/2018	Homogeneous catalytic Hydrogenation
09/03/2018	Test will be conducted
10/03/2018	Discussion of the test
Week 11(March 12-17)	
Chapter	
12/03/2018	Group Discussion
13/03/2018	problems will be taking in the class.
14/03/2018	Alkene Hydrogenation
15/03/2018	Wilkinson catalyst introduction
16/03/2018	fuction and work of Wilkinson catalyst
17/03/2018	test will be conducted
Week 12(March 19-24)	
Chapter	
19/03/2018	Discussion of the test
20/03/2018	Introduction of Mechanisms involved.
21/03/2018	Oxidative Addition
22/03/2018	Reductive Elimination
23/03/2018 ✓	National Holiday
24/03/2018	Migratory insertion.
Week 13(March 26-31)	
Chapter	
26/03/2018	β- Hydride elimination
27/03/2018	β - H - abstraction or elimination problems.
28/03/2018	Revision of all these mechanisms
29/03/2018 ✓	National Holiday
30/03/2018	test will be conducted
31/03/2018	Discussion of the test
Week 14(April 02-07)	
Chapter	
02/04/2018	Group Discussion
03/04/2018	problems will be taking in the class
04/04/2018	Implementation of all these Mechanisms

05/04/2018	Wilkinson's Catalyst
06/04/2018	Oxidation of olefins
07/04/2018	Wacker's process
Week 15(April 09-14)	
Chapter	
09/04/2018	test will be conducted
10/04/2018	Discussion of the test
11/04/2018	Again revision
12/04/2018	Assignment Work
13/04/2018	National Holiday
14/04/2018	National Holiday
Week 16(April 16-21)	
Chapter	
16/04/2018	Assignment Work
17/04/2018	Revision
18/04/2018	National Holiday
19/04/2018	Introduction of Hydroformylation
20/04/2018	Discussion of Hydroformylation of olefins
21/04/2018	Cycle involved in this process will discussed.
Week 17(April 23-28)	
Chapter	
23/04/2017	Revision
24/04/2017	test will be conducted
25/04/2017	Discussion of the test
26/04/2017	The oxo- process
27/04/2017	Again Revision
28/04/2018	problems based on these topics
Week 18(April 29-30)	
Chapter	
30/04/2018	Test and Group Discussion will be conducted.