JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
ACCREDITED BY NAAC

Lesson Plan & Tracking

Programe : B. Pharm	Session : 2021 - 2025	Year : 2nd	Sem: 3rd
Course: Pharmaceutical Organic Chemistry – II (Theory) BP301T			
Name of the Faculty: Dr. Sagnika Pradhan	Commencement Date: 29.08.2022		Date of Closure: 30.12.2022

Lecture No.	Week	Unit	Topics to be Covered	Blended Mode			Date	Duration	Tracking of Lectures	Related Course Outcome	Signature of Faculty	Signature of HoD	Remarks (if any)
				ICT Tool/Platform/ LMS	Resources	Activity							
1	1	1	Analytical, synthetic and other evidences in the derivation of structure of benzene										
2		1	Orbital picture, resonance in benzene, aromatic characters, Huckel's rule										
3		1	Reactions of benzene - nitration, sulphonation, halogenations reactivity, Friedel crafts alkylation- reactivity										
4		1	limitations, Friedel crafts acylation										
5		1	Substituents, orientation of mono substituted benzene compounds towards electrophilic substitution reaction										

6	2	1	Effect of substituents on reactivity and orientation of mono substituted benzene compounds towards electrophilic substitution reaction										
7		1	Structure and uses of DDT, Saccharin, BHC and Chloramine										
8		2	Acidity of phenols, effect of substituents on acidity										
9	3	2	Qualitative tests of phenols										
10		2	Structure and uses of phenol, cresols, resorcinol, naphthols										
11		2	Basicity of amines, effect of substituents on basicity										
12		2	Synthetic uses of aryl diazonium salts										
13	4	2	Acidity, effect of substituents on acidity										
14		2	Important reactions of benzoic acid										
15		3	Fatty acids,Definition,Structure,Types of Reactions										
16		3	Hydrolysis, Hydrogenation, Saponification with Examples										
17		3	Rancidity of oils, Drying oils										

18	5	3	Analytical constants – Acid value, Saponification value, Ester										
19		3	Iodine value, Acetyl value										
20		3	Reichert Meissl (RM) value										
21	6	3	Significance and principle involved in their determination										
22		4	Synthesis of Poly nuclear hydrocarbons										
23		4	Synthesis of Poly nuclear hydrocarbons										
24		4	Reactions of Poly nuclear hydrocarbons										
25	7	4	Reactions of Poly nuclear hydrocarbons										
26		4	Reactions of Poly nuclear hydrocarbons										
27		4	Structure and medicinal uses of Naphthalene, Phenanthrene										
28		4	Structure and medicinal uses of Anthracene, Diphenylmethane										
29	8	4	Structure and medicinal uses of Triphenylmethane and their derivatives										
30		5	Stabilities – Baeyer's strain theory,										
31		5	Limitation of Baeyer's strain theory										
32		5	Limitation of Baeyer's strain theory										

33	9	5	Coulson and Moffitt's modification										
34		5	Coulson and Moffitt's modification										
35		5	Sachse Mohr's theory (Theory of strainless rings)										
36		5	Reactions of cyclopropane										
37	10	5	Reactions of cyclopropane										
38		5	Reactions of cyclobutanes										
39		5	Reactions of cyclobutanes										
40	11		Revision of Unit 1, 2										
41			Revision of Unit 3										
42			Revision of Unit 4										
43			Revision of Unit 5										
44			Model Paper Discussion										
45	12		Model Paper Discussion										