



CENTRAL UNIVERSITY OF JAMMU

रसायन शास्त्र एवं रासयानिक बिज्ञान

DEPARTMENT OF CHEMISTRY AND CHEMICAL SCIENCES

राया-सूचानी (बागला), जिला सांबा-181143, जम्मू, जम्मू एवं कश्मीर

Rahya-Suchani (Bagla), District Samba-181143, Jammu, Jammu & Kashmir

Integrated B.Sc. (Hons.)-M.Sc. Chemistry Teaching Plan (August 2022-January 2023)

Semester: III

Course: Organic Chemistry Lab-II (ICCHM3C007T), 2 Credits, 4 h/w

Course Teacher: Dr. V. Sridharan

Week	Practical No./Day	Experiment to be Conducted	No of Hours	Suggested Readings
	I	Acetylation of any two of the following compounds:	4	1-3
1^{st}		Aniline, Toluidines, Anisidines, Phenols, β-		
Week		Naphthol, Salicylic acid by using conventional		
		method		
2 nd	I	Contd	4	1-3
Week				
$3^{\rm rd}$	I	The above experiment using green approach	4	1-3
Week				
	Ι	Benzolyation of any two of the following	4	1-3
4 th		compounds: Aniline, Toluidines, Anisidines,		
•		Phenols, β-Naphthol, Resorcinol by Schotten-		
Week		Baumann reaction		
5 th	I	Contd	4	1-3
Week	1	Contd	7	1-3
6 th	Ţ	Bromination of acetanilide by conventional method	4	1-3
Week	1	Brommation of accumined by conventional method		
7 th	Ţ	D ' ' ' C ' '!'11 1 ' 1	4	1.2
,	1	Bromination of acetanilide by using green approach	4	1-3
Week 8 th	т	D ' ' C 'I' 1 1	4	1.2
•	I	Bromination of aniline or phenol	4	1-3
Week 9 th	T	NT' (' C ('1' 1	4	1.2
_	Ι	Nitration of acetanilide or nitrobenzene by	4	1-3
Week	T	conventional method	4	1.2
10 th	I	Nitration of salicylic acid by green approach (using	4	1-3
Week 11 th	T	ceric ammonium nitrate)	4	1.2
	I	Selective reduction of <i>m</i> -dinitrobenzene to <i>m</i> -	4	1-3
Week	*	nitroaniline		1.2
12 th	I	Reduction of <i>p</i> -nitrobenzaldehyde by sodium	4	1-3
Week	-	borohydride		1.0
13 th	I	Hydrolysis of amides and esters	4	1-3
Week				
	I	Semicarbazone of any one of the following	4	1-3
14 th		compounds: Acetone, Ethyl methyl ketone,		
Week		Cyclohexanone, Benzaldehyde.		





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15 th	T	Aldol condensation using either conventional or	4	1-3
Week	1	green method	7	1 3
16 th	Ī	Model Practical Exam	4	
Week	1	Model I Memori Emmi	•	

REFERENCES

- 1. F. G. Mann and B. C. Saunders, *Practical Organic Chemistry*, Pearson Education, 2009.
- 2. B. S. Furniss, A. J. Hannaford, P. W. G, Smith and A. R. Tatchell, *Vogel's Textbook of Practical Organic Chemistry*, 5th Ed., Pearson, 2012.
- 3. In-house laboratory manual with experimental procedures and relevant information (Department of Chemistry and Chemical Sciences, Central University of Jammu).