## NAME: DR RAJDEEP YADAV

EXTENSION LECTURER DEPT. OF CHEMISTRY,

SMSD GOVT COLLEGE NANGAL CHOUDHARY

DATE	CURICULUM (BSc IV SEM)
17-01-23 to 24-01-23	Inorganic chemistry Section-C Theory of Qualitative and Quantitative Inorganic Analysis-I Chemistry of analysis of various acidic radicals,
25-01-23 to 31-01-23	Chemistry of identification of acid radicals in typical combinations, Chemistry of interference of acid radicals including their removal in the analysis of basic radicals.
01-02-23 to 07-02-23	Chemistry of analysis of various groups of basic radicals,
08-02-23 to 14-02-23	Theory of precipitation, co-precipitation, Post- precipitation, purification of precipitates.
15-02-23 to 21-02-23	Organic Chemistry Section-A Infrared (IR) absorption spectroscopy Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum,
22-02-23 to 28-02-23	Fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds. Applications of IR spectroscopy in structure elucidation of simple organic compounds.
01-03-23 to 15-03-23	<b>Diazonium Salts</b> Mechanism of diazotisation, structure of benzene diazonium chloride, Replacement of diazo group by H, OH, F, Cl, Br, I, NO <sub>2</sub> and CN groups, reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application.
16-03-23 to 22-03-23	
23-03-23 to 29-03-23	Preparation of alkyl and aryl amines (reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds.
30-03-23 to 05-04-23	Gabrielphthalimide reaction, Hofmann bromamide reaction. electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.
06-04-23 to 12-04-23	Section-C Nitro Compounds

		Preparation of nitro alkanes and nitro arenes and their chemical reactions. Mechanism of electrophilic substitution reactions in nitro arenes and their reductions in acidic, neutral and alkaline medium.
19-04-23	to	1
20-04-23 26-04-23	to	Advantage of oxidation of alcohols with chromium trioxide (Sarett reagent) pyridinium chlorochromate (PCC) and pyridinium dichromate.
27-04-23 02-05-23	to	Physical properties. Comparison of reactivities of aldehydes and ketones.
03-05-23 09-05-23	to	Mechanism of nucleophilic additions to carbonyl group with particular emphasis on benzoin, aldol, Perkin and Knoevenagel condensations. Condensation with ammonia and its derivatives. Wittig reaction.
10-05-23 16-05-23	to	Mannich reaction.Oxidation of aldehydes, Baeyer–Villiger oxidation of ketones, Cannizzaro reaction. MPV, Clemmensen, Wolff-Kishner, LiAlH4 and NaBH4 reductions.
		Revision