

CURRICULUM PLAN (ODD SEMESTER 2024-25)

Teacher Name: Dr. Anjali Sehrawat

Course: BSc. (H) Chemistry , II year (Semester III)

Paper Name: (DSC) Carbonyls, Carboxylic acid, amines, nitro compounds, isonitriles and diazonium salts (NEP) (1 period per week)

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Contents	Allocation of lectures	Month wise schedule to be followed	Tutorial/Assignments/ Presentations etc.
UNIT 2: Nitro compounds, amines, Diazonium salts, Nitriles and Isonitriles Amines: Preparation, pyramidal inversion, Basicity of amines	2	1 st week of August – 2 nd week of august	<ul style="list-style-type: none">● Syllabus Overview● References Books● Lectures● Doubt Session
Amines: Hinsberg test, Reaction with nitrous acid, Gabriel phthalimide synthesis, Carbylamine test, Mannich reaction, Exhaustive methylation	2	3 rd week of August – 4 th week of August	<ul style="list-style-type: none">● Lectures● Class discussion
Amines: Hoffmann elimination, Cope elimination Diazonium salts: Synthetic applications of diazonium salts	2	1 st week of September – 2 nd week of September	<ul style="list-style-type: none">● Lectures● Problem solving● Class discussion
Diazonium salts: Synthetic applications of diazonium salts continued	2	3 rd week of September – 4 th week of September	<ul style="list-style-type: none">● Lectures● Problem solving
Nitro compounds – Preparation, Haenry reaction, NEF reaction, Reduction, reaction with nitrous acid	2	1 st week of October- 2 nd week of October	<ul style="list-style-type: none">● Lectures● Class test

Nitriles: preparation	2	3 rd week of October- 4 th week of October	<ul style="list-style-type: none"> ● Lectures ● Problem solving ● Class discussion
Nitriles: Properties, Addition reactions, reduction reactions, hydrolysis, reaction with Grignard reagent	3	1 st week of November- 3 rd week of November	<ul style="list-style-type: none"> ● Lectures ● Problem solving ● Class discussion

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