

MANGALORE UNIVERSITY
DEPARTMENT OF CHEMISTRY
M. SC. ORGANIC CHEMISTRY

OC P 557: Organic Chemistry Practicals –VI

COURSE OUTCOME:

Enable the students:

- To gain the knowledge of preparation and purification of eighteen organic molecules using multistep organic synthetic protocol.
- To know the synthesis and purification of one derivative each of furan, indole, pyrazole, quinoline, thiazole, acridine, coumarin and triazoles.
- To learn the synthesis of picric acid, para red, methyl red, methyl orange, flourecein, eosin, indigo and dyeing of fabrics.

Preparation of Ethyl resorcinol from Resorcinol, 3-Bromo-4-methyl benzaldehyde from p-Toluedine, ϵ -Caprolactam from cyclohexanone, p-Aminobenzoic acid from p-Nitrotoluene, s-Tribromobenzene from aniline, o-hydroxyacetophenone from phenol, Benzanilide from Benzophenone, Benzylic acid from Benzoin, Benzopinacolone from Benzophenone, p-Chlorotoluene from p-Toludine, 2,5-Dihydroxyacetophenone from Hydroquinone, 2,4-Dinitrophenylhydrazine from Chlorobenzene, m-Nitrobenzoic acid from Benzoic acid, 2,4-Dinitrophenol from Chlorobenzene, o-Aminobenzoic acid from Phthalic acid, 2-Carbethoxycyclopentanone from Adipic acid, α -Acetylaminocinnamic acid from Glycine, p-Aminoazobenzene from Aniline.

Synthesis of one derivative each of Furan, Indole, Pyrazole, Quinoline, Thiazole, Acridine, Coumarin and Triazole containing heterocycles. Synthesis of Picric acid, Para red, Methyl red, Methyl orange, Flourescein, Eosin, Indigo and dyeing of fabrics.