

7st Semester/ FCYC751----- Organic Chemistry Laboratory (0-0-0) (2Credits)

Qualitative Analysis

- i. Identification of organic compounds, separation, purification and identification of compounds of binary mixture using TLC and column chromatography. Interpretation of IR spectra for functional group identification.
- ii. Isolation of active natural products (caffeine, lycopene, etc.) from natural sources.
- iii. Preparation of paracetamol, aspirin, and some dyes and indicators.
- iv. Application of steam distillation in isolation of essential oil (clove) and perfume (rose).
- v. Preparation of o-iodobenzoic acid from anthranilic acid, furoic acid from furfural.
- vi. Thiamine catalysed benzoin condensation
- vii. Preparation of benzil from benzoin.
- viii. Estimation of phenol, aniline, ascorbic Acid.
- ix. Estimation of glucose by Fehling's method & Bertrand's method.

Structure Drawing of various organic building blocks using chemdraw softwares

Text Books

1. Experiments and Techniques in Organic Chemistry, D. J. Pasto, C. R. Johnson & M. J. Miller, Printice Hall, 1992.
2. Systematic Qualitative Organic Analysis, H. Middleton, E. Arnold (publisher)
3. Hand Book of Organic Analysis, Qualitative & Quantitative, M. T. Clarke, E. Arnold