Course code	Course Name	L-T-P- Credits	Year of introduction
CH231	CHEMISTRY LAB FOR PROCESS ENGINEERING- I	0-0-3-1	2016
Prerequisite: CH207 Chemistry for process engineering - I			
Course Objectives			
1 To provide knowledge of analysis estimation and preparation of selected			
organic chemicals			
2. To accustom the students with the handling and analyzing chemicals.			
List of Exercises / Experiments			
1. Analysis of simple organic compounds (minimum 8 numbers)			
2. Preparations of organic compounds (minimum 5 numbers)			
a) Preparation of benzanilide from aniline.			
b) Preparation of m-dinitrobenzene from nitrobenzene.			
c) Preparation of benzoic acid from ethyl benzoate.			
d) Preparation of glucosazone from glucose.			
e) Preparation of salicylic acid methyl salicylate.			
f) Preparation of aspirin from salicylic acid.			
3. Volumetric estimation of organic compounds.			
a) Aromatic primary amine.			
b) Phenol.			
c) Glucose			
4. Colorimetric estimation of organic compounds.			
a) Ascorbic acid			
5 Chromatography - Identification of amino acids using paper chromatography			
5. Chromatography - Identification of animo acids using paper emoniatography			
At the end of the course, students will be able to			
(i) Prepare analyse and estimate selected organic chemicals experimentally			
(i) Plan and perform experiments for the analysis			
(iii) Demonstrate capacity to work in teams and exhibit knowledge of safety health			
and environment by practicing laboratory ethics			
Deferences			
 Srivastava T.N. & Kamboj P.C., Systematic Analytical Chemistry. F G Mann & B C Saunders, Practical Organic Chemistry, Dorling Kinderly PVT. Ltd. 			

Beebet, Pharmacuetical Analysis.
Vogel's Textbook of Practical Organic Chemistry, ELBS/Longman, 1989