Course (Unit) Title	**Organic and Physical Chemistry Laboratory 1**
Course (Unit) Code	CHE106G1
Credit Value	01 (45 hours of practical work)
Objective/s	• Develop basic practical skills involved in elemental analysis by Lassaigne's test, functional group analysis and recrystallization techniques • Design and perform simple experiments in physical chemistry
Intended Learning Outcomes	• Identify the elements present in an unknown organic compound • Identify the functional groups present in an unknown organic compound • Apply simple recrystallization techniques • Determine chemical parameters by conducting physical chemistry experiments
Contents	• Identification of elements N, S, P, Cl, Br and I present in organic compounds by Lassaigne's test • Functional group analysis of organic compounds • Simple recrystallization techniques using polar, non-polar and mixed solvents • Simple physical chemistry experiments involving chemical equilibrium, kinetics, heats of reactions and electrochemistry
Teaching and Learning Methods / Activities	Laboratory demonstrations and hands on experiments, Assignments
Evaluation	In course assessment (Theory and Practical) 30% End of course examination 70%
Recommended References	• Vogel, A. I., *Text book of Qualitative organic Analysis*, Longman Scientific, 2004. • Viswanathan, B; Raghavan, P.S., *Practical Physical Chemistry*, Viva Books Private Limited, 2005.