Course (Unit) Title	Inorganic Chemistry Laboratory 1
Course (Unit) Code	CHE105G1
Credit Value	01 (45 hours of practical work)
Objective/s	Develop basic practical skills involved in qualitative and quantitative analyses
Intended Learning	Determine the amount of substances using titrimetry
Outcomes	Identify and confirm the cations and anions present in a given mixture
Contents	Quantitative Inorganic Analysis
	Safe laboratory practices, introduction to measurements and errors
	Acid base titrations: strong acid-strong base, strong acid-weak base,
	strong base-weak acid, polyprotic acid-strong base
	<ul> <li>Quantification of Na<sub>2</sub>CO<sub>3</sub> in washing soda, carbonate and hydroxide</li> </ul>
	in a given mixture
	Redox and precipitation titration
	Redox and precipitation titration
	Qualitative Inorganic Analysis
	Identification of simple inorganic anions and cations
	Separation of different anions and cations in a given mixture
Teaching and	Laboratory demonstrations and hands on experiments, Assignments
Learning Methods /	
Activities	
Evaluation	In course assessment (Theory and Practical)30%
	End of course examination 70%
Recommended	Vogel, A. I., Text book of Qualitative Inorganic Analysis, Longman
References	Scientific, 2004.
	• Denney, R. C., Thomas, M. J. K., David J. B., and Mendham J., <i>Text Book of Quantitative Inorganic Analysis</i> , 6 <sup>th</sup> Edition, Longman Scientific, 2005.