

Module Code:	SC 4382		
Module Title:	Industrial and Applied Chemistry		
Degree/Diploma:	Bachelor of Science		
Type of Module:	Option		
Modular Credits:	2 MC	Student Workload:	4-5 hrs. / week
		Contact Hours:	2 hrs / week
Pre-requisite:	None		
Anti-requisite	None		
<p><i>Aims:</i></p> <p>Upon successful completion of this module, students are expected to understand various processes where the knowledge of chemistry is applied in the production major primary bulk chemicals and their secondary commercial products. It also aims to give the students an idea of what the industries do, the scale of operations, the major products and to understand the impact of industries on the environment and its protection.</p>			
<p><i>Module Content:</i></p> <p>Introduction on the importance of industrial and applied chemistry by giving an overview of the diverse part of manufacturing industries.</p> <p>Sources of chemicals, the chemical industry of today, catalysts and catalysis, petrochemicals, synthesis gas, ammonia, C2-5 products (ethanol and methanol), polymer-based products.</p> <p>Application of chemistry in food processing, food additives, cosmetics and pharmaceutical.</p> <p>Environmental impact by chemicals and processing industries and its mitigations.</p>			
Assessment:	Examination	70 %	Coursework 30 %
	<i>One 2 hour examination paper</i>		The continuous assessment is based on 2 assignments (10%), 2 tests (10%) and a presentation (10%)