

<b>Faculty</b>	Natural Sciences		
<b>Home Department</b>	Chemistry		
<b>Module Topic</b>	Organic and Inorganic Chemistry		
<b>Generic Module Name</b>	Chemistry 211		
<b>Alpha-numeric Code</b>	<b>CHM211</b>		
<b>NQF Level</b>	6		
<b>NQF Credit Value</b>	20		
<b>Duration</b>	Semester		
<b>Proposed semester to be offered</b>	First Semester		
<b>Programmes in which the module will be offered</b>	BSc (Biotechnology) (3211, 3007); BSc (Chemical Science) (3220,3019); BSc (Physical Science) (3233, 3120)		
<b>Year level</b>	2		
<b>Main Outcomes</b>	<p>On completion of this module students should be able to:</p> <ul style="list-style-type: none"> <li>Define the main atomic properties of elements and explain the major periodic trends observed for these properties.</li> <li>Account for the major diagonal relationships in the periodic table.</li> <li>Understand the main descriptive chemistry of the major classes of main group elements.</li> <li>Describe the major physical properties of transition elements.</li> <li>Demonstrate an understanding of the basic principles of organometallic chemistry of transition metals.</li> <li>Identify and categorize the different reactions of aromatic compounds.</li> <li>Classify and execute stereochemical relationships.</li> <li>Recognize and recall the basics of organometallic chemistry.</li> <li>Distinguish the different reactions of organic and inorganic chemical compounds.</li> </ul>		
<b>Main Content</b>	<ul style="list-style-type: none"> <li>Aromatic Chemistry, Stereochemistry, Bi-Functional Conjugated Systems.</li> <li>Atomic properties of elements, diagonal relationships in the periodic table, descriptive chemistry of the important classes of main group elements, physical properties of transition metals, introduction to Organometallic chemistry</li> </ul>		
<b>Pre-requisite modules</b>	CHE114 and CHM124 or CHE116 and CHM126		
<b>Co-requisite modules</b>	None		
<b>Prohibited module Combination</b>	None		
<b>Breakdown of Learning Time</b>	<b>Hours</b>	<b>Timetable Requirement per week</b>	<b>Other teaching modes that does not require time-table</b>
<i>Contact with lecturer / tutor:</i>	50	<i>Lectures p.w.</i>	3
<i>Assignments &amp; tasks:</i>	42	<i>Practicals p.w.</i>	1
<i>Practicals:</i>	42	<i>Tutorials p.w.</i>	1
<i>Tutorials:</i>	0		
<i>Tests &amp; Examinations:</i>	12		
<i>Selfstudy:</i>	48		
<i>Other:</i>	0		
<b>Total Learning Time</b>	<b>200</b>		
<b>Methods of Student</b>	Continuous Assessment (CA): 60%		

<b>Assessment</b>	Final Assessment (FA): 40%
<b>Assessment Module type</b>	Continuous and Final Assessment (CFA)