

Module code	SC-4330		
Module Title	Synthesis and Reactions of Carbocyclic Rings		
Degree/Diploma	Bachelor of Science (Chemistry)		
Type of Module	Major Option		
Modular Credits	2	Total student Workload	5 hours/week
		Contact hours	2 hours/week
Prerequisite	None		
Anti-requisite	SC-4326 Carboxylic Rings and Multistep Syntheses		
Aims			
To provide students with sound knowledge on carboxylic rings in organic chemistry and pericyclic reactions.			
Learning Outcomes			
<i>On successful completion of this module, a student will be expected to be able to:</i>			
Lower order :	40%	- describe the properties and synthesis of different sized cyclic organic compounds	
Middle order :	40%	- apply named reactions, theories and concepts learnt	
Higher order:	20%	- present selected named reactions - work independently or collaboratively as a team	
Module Contents			
<ul style="list-style-type: none"> - Carbocyclic rings: Different types of cyclic organic compounds and their properties - Synthesis: Factors affecting the ease of ring closure including the Baldwin Rules, synthesis of different sized rings - Named reactions: Equations and Mechanisms - Pericyclic reactions: Synthesis of carboxylic rings in the absence of reactive intermediates 			
Assessment	Formative assessment	Weekly Tutorial Sessions and Discussion	
	Summative assessment	Examination: 60%	
		Coursework: 40% - 1 Individual Presentation (5%) - 2 Individual Written Assignments (15%) - 2 Class Tests (20%)	