

<b>Module code</b>	SC-4290	
<b>Module Title</b>	Research Project	
<b>Degree/Diploma</b>	Bachelor of Science (Chemistry)	
<b>Type of Module</b>	Major Core	
<b>Modular Credits</b>	8	<b>Total student Workload</b> 10 hours/week for 2 semesters
		<b>Contact hours</b> 4 hours/week for 2 semesters
<b>Prerequisite</b>	None	
<b>Anti-requisite</b>	None	
<b>Aims</b>		
This module aims To integrate the concepts, theories and laboratory practiced learned from previous chemistry modules by performing an independent research on a certain topic.		
<b>Learning Outcomes</b>		
Upon completion of the project, the student will have the skill to conduct research on certain topic.		
Lower order:	10%	<ul style="list-style-type: none"> <li>- <del>Understand</del> <u>Identify</u> research objectives and be able conduct literature search</li> <li>- Review literature and formulate research framework</li> <li>- Design research proposal</li> <li>- Plan and prepare for research</li> </ul>
Middle order:	10%	<ul style="list-style-type: none"> <li>- learning of laboratory skills, running of instruments, analysis of results, problem solving</li> <li>- Conduct experimental/laboratory work including data analysis with the guidance of supervisor</li> <li>- Follow data collection, procedures and protocols safely and efficiently</li> </ul>
Higher order:	80%	<ul style="list-style-type: none"> <li>- Ability to conduct research independently</li> <li>- Interpret and critically appraise study design, research procedure, and findings</li> <li>- Write a research project report in journal article format</li> <li>- Present research findings orally</li> </ul>
<b>Module Contents</b>		
<ul style="list-style-type: none"> <li>- An individual research project will be chosen by the student.</li> <li>- The project comprises a literature survey, experiments, theoretical work, a presentation and a report.</li> </ul>		
<b>Assessment</b>	Formative assessment	Preliminary report, oral presentation, group meeting with supervisor
	Summative assessment	Examination: 0% Coursework: 100% <ul style="list-style-type: none"> <li>- 1 research proposal (30%)*</li> <li>- 1 research project report in journal article format (40%)*</li> <li><del>- 1 oral presentation of project report (20%)**</del></li> <li><del>- Assessment of student's initiative (10%)**</del></li> </ul> Notes: *by two assessors (other than supervisor); ** by programme staff ***by supervisor(s) <ul style="list-style-type: none"> <li>- 1 oral presentation of project report (20%)*</li> <li>- Assessment of student's initiative (10%)**</li> </ul> Notes: *by two assessors (other than supervisor); **by supervisor