Module code		SP-4290			
Module Title		Physics Project			
Degree/Diploma		Bachelor of Science (Applied Physics)			
Type of Module		Major Core			
Modular Credits		8	Total student Workload	10 hours/week for 2 semesters	
			Contact hours	4 hours/week for 2 semesters	
Prerequisite		SP-1205 Experimental and Mathematical Skills in Physics			
Anti-requisite		None			
Aims This module aims to introduce students to the methodology of conducting scientific research.					
Learning Outcomes On successful completion of this module, a student will be expected to be able to:					
Lower order: 10%		- unde	- understand the application of physics concepts in different contexts		
		<ul> <li>know and understand ways of solving problems through execution of practical investigations and other methods of performing scientific research</li> </ul>			
Middle order:	10%	<ul> <li>research, retrieve and combine data from different information sources</li> <li>conduct and report on the testing of hypotheses and evaluate data and assumptions</li> <li>apply appropriate scientific and mathematical principles in analysing physical problems</li> <li>collect, record and analyse data using suitable techniques</li> <li>process data and assess their reliability to determine the significance of results</li> <li>relate results to relevant theories in physics</li> </ul>			
Higher order:	80%	<ul> <li>critically evaluate data by considering methodology and accuracy during collection, recording and analysis of data</li> <li>critically make judgements to identify a range of solutions to a problem solve problems using theoretical, practical and/or computational methods</li> <li>follow proper procedures and protocols when conducting practical work</li> <li>communicate effectively in written, oral and graphical forms</li> <li>identify individual goals and work independently</li> <li>adopt good time management skills</li> <li>work cooperatively in a team</li> </ul>			
Module Contents					
<ul> <li>A project will be taken under the supervision of a member of staff.</li> <li>The project will normally be investigative and/or exploratory.</li> <li>The project will involve the application of the concepts of physics.</li> <li>The student is expected to develop existing skills and acquire new ones in a range of areas including laboratory skills, especially of physical measurements, good time management skills, good data gathering methods and data analysis and interpretation skills</li> <li>The student is also expected to develop good scientific reporting skills.</li> </ul>					
Assessment Forn		ive Me	eetings, discussions and submission of preliminary reports		
	assessment				
	Summa	itive Exa	Examination: 0%		
	assessn	nent Cou - 2   - St -1 c	Coursework: 100% - 2 project reports - Assessed by supervisor(s) and internal examiner (60%) - Student's effort and initiative - Assessed by supervisor(s) (25%) -1 oral presentation - Assessed by academic staff (15%)		