

Subject Description Form

Subject Code	ABCT5039
Subject Title	Project
Credit Value	3
Level	5
Co-requisite	All level 5 core subjects
Objectives	<p>The subject is related to the programme of study covered in the programme curriculum. This subject aims to promote independent and creative thinking, and to train students to develop the academic and practical skills to define, investigate, analyze and solve a scientific/technical problem. Students enrolled to this subject will undertake a project involving theoretical investigation of a fundamental or practical problem in issues relating to sustainability or zero-carbon transition.</p>
Intended Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none">a. conduct thorough literature search and critically assess the information;b. identify, formulate and propose solution(s) for solving a research problem;c. generate hypothesis, and conduct studies as well as to critically analyze and interpret data, and draw significant conclusions;d. manage and organize time efficiently;e. write research report and present results orally in an effective, skillful and professional manner.
Subject Synopsis/ Indicative Syllabus	<p>Project should be an in-depth critique to specific sustainability issues with recommendations for improvement. The detailed theory, methodology and analytical process will be proposed and carried out by the student. Data collected by the student will be processed and presented in form of oral presentation and final report. Students can benefit greatly from problems/investigations in the real-world situations.</p>

Teaching/Learning Methodology	<p>Student will have a project supervisor, who is normally academic staff of the Department. With guidance from the project supervisor, each student is going to choose and propose his/her own project theme. The supervisor's major role is to provide advice and guidance to the student throughout the development of the project. The detailed theory, methodology and procedure will be proposed by student. Data collected by the students will be processed and presented in form of oral presentation and final report. Students can benefit greatly from problems/investigations in the real-world situations.</p>																																																					
Assessment Methods in Alignment with Intended Learning Outcomes	<table border="1" data-bbox="493 554 1427 1845"> <thead> <tr> <th data-bbox="493 554 894 816" rowspan="2">Specific assessment methods/tasks</th> <th data-bbox="894 554 1073 816" rowspan="2">% weighting</th> <th colspan="5" data-bbox="1073 554 1427 743">Intended subject learning outcomes to be assessed (Please tick as appropriate)</th> </tr> <tr> <th data-bbox="1073 743 1149 816">a</th> <th data-bbox="1149 743 1219 816">b</th> <th data-bbox="1219 743 1289 816">c</th> <th data-bbox="1289 743 1359 816">d</th> <th data-bbox="1359 743 1427 816">e</th> </tr> </thead> <tbody> <tr> <td data-bbox="493 816 894 1050">1. Project preparation and efficient planning, organization, approach and execution of the project</td> <td data-bbox="894 816 1073 1050">15%</td> <td data-bbox="1073 816 1149 1050">✓</td> <td data-bbox="1149 816 1219 1050">✓</td> <td data-bbox="1219 816 1289 1050">✓</td> <td data-bbox="1289 816 1359 1050">✓</td> <td data-bbox="1359 816 1427 1050"></td> </tr> <tr> <td data-bbox="493 1050 894 1436">2. Project outcomes: originality and significance of work; knowledge and understanding of work; execution of methods; results and data analysis; interpretation of results and conclusions</td> <td data-bbox="894 1050 1073 1436">60%</td> <td data-bbox="1073 1050 1149 1436">✓</td> <td data-bbox="1149 1050 1219 1436">✓</td> <td data-bbox="1219 1050 1289 1436">✓</td> <td data-bbox="1289 1050 1359 1436">✓</td> <td data-bbox="1359 1050 1427 1436">✓</td> </tr> <tr> <td data-bbox="493 1436 894 1669">3. Written report (organization, style, clarity, fluency, effectiveness, grammar and spelling)</td> <td data-bbox="894 1436 1073 1669">15%</td> <td data-bbox="1073 1436 1149 1669">✓</td> <td data-bbox="1149 1436 1219 1669">✓</td> <td data-bbox="1219 1436 1289 1669">✓</td> <td data-bbox="1289 1436 1359 1669">✓</td> <td data-bbox="1359 1436 1427 1669">✓</td> </tr> <tr> <td data-bbox="493 1669 894 1780">4. Oral presentation and response to questions</td> <td data-bbox="894 1669 1073 1780">10%</td> <td data-bbox="1073 1669 1149 1780">✓</td> <td data-bbox="1149 1669 1219 1780">✓</td> <td data-bbox="1219 1669 1289 1780">✓</td> <td data-bbox="1289 1669 1359 1780">✓</td> <td data-bbox="1359 1669 1427 1780">✓</td> </tr> <tr> <td data-bbox="493 1780 894 1845">Total</td> <td data-bbox="894 1780 1073 1845">100%</td> <td data-bbox="1073 1780 1149 1845"></td> <td data-bbox="1149 1780 1219 1845"></td> <td data-bbox="1219 1780 1289 1845"></td> <td data-bbox="1289 1780 1359 1845"></td> <td data-bbox="1359 1780 1427 1845"></td> </tr> </tbody> </table>							Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)					a	b	c	d	e	1. Project preparation and efficient planning, organization, approach and execution of the project	15%	✓	✓	✓	✓		2. Project outcomes: originality and significance of work; knowledge and understanding of work; execution of methods; results and data analysis; interpretation of results and conclusions	60%	✓	✓	✓	✓	✓	3. Written report (organization, style, clarity, fluency, effectiveness, grammar and spelling)	15%	✓	✓	✓	✓	✓	4. Oral presentation and response to questions	10%	✓	✓	✓	✓	✓	Total	100%					
Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)																																																				
		a	b	c	d	e																																																
1. Project preparation and efficient planning, organization, approach and execution of the project	15%	✓	✓	✓	✓																																																	
2. Project outcomes: originality and significance of work; knowledge and understanding of work; execution of methods; results and data analysis; interpretation of results and conclusions	60%	✓	✓	✓	✓	✓																																																
3. Written report (organization, style, clarity, fluency, effectiveness, grammar and spelling)	15%	✓	✓	✓	✓	✓																																																
4. Oral presentation and response to questions	10%	✓	✓	✓	✓	✓																																																
Total	100%																																																					

	<p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</p> <p>The performance of the student will be assessed during the course of the investigation. The project is assessed by the approach of work, achievement of proposed objectives, planning and execution of work, interpretation and analysis of results and presentation of the results. The student's ability to write research report and present results orally in an effective manner will be assessed based on the final written report and oral presentation.</p>	
Student Study Effort Expected	Class contact:	
	▪ Guided Study	10 Hrs.
	Other student study effort:	
	▪ Writing Proposal and Final Report	40 Hrs.
	▪ Literature Review, Project Execution, Independent Theoretical Investigation	70 Hrs.
	▪ Preparation for Project Presentation	10 Hrs.
	Total student study effort	130 Hrs.
Reading List and References	Related books and journal articles	