

Subject Description Form

Subject Code	ABCT5038
Subject Title	Expert Seminars / Special Topics in Sustainable Science and Technology
Credit Value	3
Level	5
Pre-requisite/ Co-requisite/ Exclusion	ABCT 5034 and ABCT 5035
Objectives	To update students with the latest development in various fronts of sustainable science and technology, enlightening them with possible areas for their future endeavours.
Intended Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> 1. Recognize the multi-disciplinary nature of carbon neutrality, and the possible approaches adopted in formulating solutions in a diverse range of problems; 2. critically examine how science and technology contribute towards the advancement of sustainability and carbon neutrality; and 3. demonstrate information literacy through literature review and report presentations.
Subject Synopsis/ Indicative Syllabus	<p>Topics relevant to the latest development in various aspects of sustainability and carbon neutrality will be covered in the seminars presented by experts in the field. The seminars topics also form bases for literature review by the students.</p> <p>Students are required to attend all seminars arranged for this subject. The attendance rate shall not be less than 70%.</p>
Teaching/Learning Methodology	Distinguished speakers will deliver seminars on topics concerning the latest advancements in the field. This will broaden students' horizon and deepen their understanding of sustainable science and technology and related fields. This will stimulate students' further exploration of the topics. Students will write a critical reflection, of no less than 800 words (<i>excluding references</i>), on two of the seminars. Tests/quiz will also be used to assess students' understanding of seminar topics.

Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)		
			a	b	c
	1. Reflection on expert seminars	30%	√	√	√
	2. Tests and Quiz	30%		√	√
	3. Assignments	20%		√	√
	Total	100%			
	<p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</p> <p>Reflection report on expert seminar will testify students’ learning experience, and the breadth and depth of their understanding in the seminar content.</p> <p>For assignment, the report will be used to evaluate students’ capability to learn and analyse information in a self-managed and self-directed manner, and to communicate and to report findings professionally.</p> <p>Students will work on assignments on topics related to the seminar topics. They will report the results, findings and conclusions in forms of assignment reports. The assignments will reinforce the knowledge learnt from the seminars and incentivise students to explore further on the seminar topics.</p> <p>Test/quiz will be used to evaluate students’ level of understanding and provide high order thinking questions to assess students’ analytical and problem-solving skills.</p>				
Student Study Effort Expected	Class contact:				
	▪ Expert Seminars			21 Hrs.	
	▪ Workshop			18 Hrs.	
	Other student study effort:				
	▪ Reflection report (<i>no less than 800 words</i>) on expert seminar			10 Hrs.	
	▪ Self-learning and literature search			71 Hrs.	
	▪				

	Total student study effort	120 Hrs.
Reading List and References	Provided by the speakers of the seminars/workshops	