

## Subject Description Form

<b>Subject Code</b>	ABCT4112
<b>Subject Title</b>	Research Project
<b>Credit Value</b>	6
<b>Level</b>	4
<b>Pre-requisite</b>	Stage 1, 2 & 3 DSR core subjects
<b>Objectives</b>	The Research Project is related to work covered by the Course. The objectives of the Research Project are to promote independent and creative thought, and to train students to develop the academic and practical skills to define, investigate, analyze and solve a scientific/technical problem.
<b>Intended Learning Outcomes</b>	Upon completion of the subject, students will be able to: (a) conduct literature searches and critically assess the material; (b) demonstrate the ability in independent and creative thinking; (c) identify and solve technical problems; (d) formulate hypothesis, design and conduct studies as well as to analyze and interpret data; (e) appreciate the importance of team work when working within a team environment during a research project; (f) manage time and organize efficiently; (g) communicate effectively, for report writing and presentation.
<b>Subject Synopsis/ Indicative Syllabus</b>	The Research Project may involve an experimental investigation of a fundamental or practical problem in applied biology and biotechnology. The project could be basic studies on biological compounds, development of methods/products/ equipment, design and evaluation of bioprocesses, and feasibility study/survey on the marketing of biological products.
<b>Teaching/Learning Methodology</b>	With guidance from a project supervisor, each student is encouraged to choose and propose his/her own project theme. After conducting literature searches and critically assessing the material, each student is required to submit a proposal and to carry out an independent research project in the laboratory. Supervisors meet regularly with students to monitor their progress and whether the subject's outcomes are being achieved. At the completion of the project, a written report and the delivery of an oral presentation is required. The project is assessed by the achievement of proposed objectives, planning and execution of work, interpretation of results and presentation of results.

<b>Assessment Methods in Alignment with Intended Learning Outcomes</b>	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)						
			a	b	c	d	e	f	g
	1. Project preparation and efficient planning, organization, approach and execution of the project	15	x	x	x		x	x	
	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	x	x	x	x		x	
	3. Written report (organization, style, clarity, fluency, effectiveness, grammar and spelling)	15	x	x	x	x		x	x
	4. Oral presentation and response to questions	10	x	x	x	x			x
<b>Total</b>	<b>100 %</b>								
<b>Student Study Effort Expected</b>	Class contact:								
	▪ Literature review and experimental investigation		180 Hrs.						
	Other student study effort:								
	▪ Writing proposal and final report		64 Hrs.						
	▪ Preparing presentation		16 Hrs.						
	Total student study effort		260 Hrs.						
<b>Reading List and References</b>	Related books and journal articles								