

Subject Description Form

Subject Code	ABCT4418
Subject Title	Research Project
Credit Value	6
Level	4
Pre-requisite	Stage 1, 2 & 3 core subjects
Objectives	The primary objective of the subject is to promote students' abilities and efforts to apply and incorporate their knowledge and skills acquired in the programme to solve a practical problem or to investigate a matter of interest in relation to food safety and technology. Another aim is to foster students' all-round skills in creativity, analytical and critical thinking, teamwork, information acquisition, oral and written communications, interpersonal relationship, professionalism and social responsibilities as well as time management and organization abilities.
Intended Learning Outcomes	On successful completion of this subject, students should be able to a) identify a problem/matter associated with food safety and technology and explain why it requires a solution/investigation (i.e. the aims and objectives); b) integrate and apply the knowledge learned in the programme to design details of a plan (with justification) for achieving the aims and objectives; c) apply skills acquired to carry out the plan of obtaining results through the use of, for examples, computer, experiment, survey, information acquisition from the library and/or internet, etc.; d) critically analyze the results and interpret the data; e) make significant conclusions with justification; f) recognize success/failure of the work done and suggest improvement; g) demonstrate the all-round skills as specified above (see Aims).
Subject Synopsis/ Indicative Syllabus	Project could be simple experimental investigation (e.g. analysis of a harmful substance in raw food materials, creation and sensory evaluation of a new food product, etc.), surveys, case study, design of a food process/sanitation programme, development of a technique, application of new technology and so forth. Projects in co-operation with the food industry, the Government and the commercial sector are particularly encouraged. Students can benefit greatly from problems/investigations in the real-world situations.
Teaching/Learning Methodology	All projects will be the individual project. A brief description of the projects from different PIs in the department will be distributed to students and a briefing section will be arranged for all students before summer of the last academic year. Students are allowed to talk to potential supervisor for the potential projects, which will take about 2~3

	<p>weeks. At the end of the selection process, students will turn in their first, second and third priorities of their FYP supervisors and projects to the subject leader, who will balance students' choices and assign students to different FYP project. After identifying supervisor and projects, individual student need to talk to the supervisor on the detail process of the project and each student will be required to submit a proposal about the plan and research design of the project after one month working in the lab. At the completion of the project, a final written report and an oral presentation will be required. Continuous assessment will be used to evaluate students' accomplishment and achievement of the learning outcomes.</p>																																																																		
<p>Assessment Methods in Alignment with Intended Learning Outcomes</p>	<table border="1"> <thead> <tr> <th data-bbox="527 621 889 814" rowspan="2">Specific assessment methods/tasks</th> <th data-bbox="894 621 1036 814" rowspan="2">% weighting</th> <th colspan="6" data-bbox="1040 621 1408 751">Intended subject learning outcomes to be assessed (Please tick as appropriate)</th> </tr> <tr> <th data-bbox="1040 758 1092 814">a</th> <th data-bbox="1097 758 1149 814">b</th> <th data-bbox="1154 758 1206 814">c</th> <th data-bbox="1211 758 1263 814">d</th> <th data-bbox="1268 758 1320 814">e</th> <th data-bbox="1325 758 1377 814">f</th> <th data-bbox="1382 758 1408 814">g</th> </tr> </thead> <tbody> <tr> <td data-bbox="527 821 889 961">(1) Project preparation and efficient planning, approach and execution of the project</td> <td data-bbox="894 821 1036 961">15</td> <td data-bbox="1040 821 1092 961">√</td> <td data-bbox="1097 821 1149 961">√</td> <td data-bbox="1154 821 1206 961">√</td> <td data-bbox="1211 821 1263 961"></td> <td data-bbox="1268 821 1320 961"></td> <td data-bbox="1325 821 1377 961"></td> <td data-bbox="1382 821 1408 961"></td> </tr> <tr> <td data-bbox="527 968 889 1241">(2) Project outcomes: knowledge and understanding of work; logical planning and approach; data analysis, interpretation of results and conclusions</td> <td data-bbox="894 968 1036 1241">60</td> <td data-bbox="1040 968 1092 1241">√</td> <td data-bbox="1097 968 1149 1241">√</td> <td data-bbox="1154 968 1206 1241">√</td> <td data-bbox="1211 968 1263 1241">√</td> <td data-bbox="1268 968 1320 1241">√</td> <td data-bbox="1325 968 1377 1241">√</td> <td data-bbox="1382 968 1408 1241">√</td> </tr> <tr> <td data-bbox="527 1247 889 1419">(3) Written report (organization, style, clarity, fluency, effectiveness, grammar and spelling)</td> <td data-bbox="894 1247 1036 1419">15</td> <td data-bbox="1040 1247 1092 1419">√</td> <td data-bbox="1097 1247 1149 1419">√</td> <td data-bbox="1154 1247 1206 1419">√</td> <td data-bbox="1211 1247 1263 1419">√</td> <td data-bbox="1268 1247 1320 1419">√</td> <td data-bbox="1325 1247 1377 1419">√</td> <td data-bbox="1382 1247 1408 1419">√</td> </tr> <tr> <td data-bbox="527 1425 889 1629">(4) Seminar presentation and response to questions 20%</td> <td data-bbox="894 1425 1036 1629">10</td> <td data-bbox="1040 1425 1092 1629"></td> <td data-bbox="1097 1425 1149 1629"></td> <td data-bbox="1154 1425 1206 1629">√</td> <td data-bbox="1211 1425 1263 1629">√</td> <td data-bbox="1268 1425 1320 1629">√</td> <td data-bbox="1325 1425 1377 1629">√</td> <td data-bbox="1382 1425 1408 1629">√</td> </tr> <tr> <td data-bbox="527 1635 889 1696">Total</td> <td data-bbox="894 1635 1036 1696">100 %</td> <td colspan="6" data-bbox="1040 1635 1408 1696"></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	f	g	(1) Project preparation and efficient planning, approach and execution of the project	15	√	√	√					(2) Project outcomes: knowledge and understanding of work; logical planning and approach; data analysis, interpretation of results and conclusions	60	√	√	√	√	√	√	√	(3) Written report (organization, style, clarity, fluency, effectiveness, grammar and spelling)	15	√	√	√	√	√	√	√	(4) Seminar presentation and response to questions 20%	10			√	√	√	√	√	Total	100 %						
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<p>Student Study Effort Expected</p>	Class contact:																																																																		
	<ul style="list-style-type: none"> ▪ Experimental and/or theoretical investigation 							180 Hrs.																																																											

	Other student study effort:	
	▪ Writing proposal and final report	64 Hrs.
	▪ Preparing presentation	16 Hrs.
	Total student study effort	260 Hrs.
Reading List and References	Related books and journal articles	