

## Subject Description Form

<b>Subject Code</b>	ABCT5017
<b>Subject Title</b>	Capstone Project
<b>Credit Value</b>	6
<b>Level</b>	5
<b>Co-requisite</b>	All level 5 core subjects
<b>Objectives</b>	The capstone project is related to the programme of study covered in the programme curriculum. The aims of the research project are 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. The project may involve a theoretical investigation of a fundamental or practical problem in analytical sciences.
<b>Intended Learning Outcomes</b>	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> <li>a. conduct thorough literature search and critically assess the information;</li> <li>b. demonstrate the ability to carry out research work independently;</li> <li>c. identify, formulate and solve a research problem;</li> <li>d. generate hypothesis, design and conduct studies as well as to critically analyze and interpret data, and draw significant conclusions;</li> <li>e. manage and organize time efficiently;</li> <li>f. write research report and present results orally in an effective, skillful and professional manner.</li> </ol>
<b>Subject Synopsis/ Indicative Syllabus</b>	Project should be an in-depth critique to an existing food safety issue 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
<b>Teaching/Learning Methodology</b>	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. Analytical 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.

**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	d	e	f
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%	✓	✓	✓	✓		✓
<b>Total</b>	<b>100 %</b>						

Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:

The performance of the student will be assessed during the course of the research project. The project is assessed by the approach of work, achievement of proposed objectives, planning and execution of work, quality of research results, interpretation and analysis of results and presentation of 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.	
<b>Student Study Effort Expected</b>	Class contact:	
	▪ Guided Study	20 Hrs.
	Other student study effort:	
	▪ Writing Proposal and Final Report	40 Hrs.
	▪ Literature Review, Project Execution, Independent Theoretical Investigation	150 Hrs.
	▪ Preparation for Capstone Project Presentation	20 Hrs.
	Total student study effort	230 Hrs.
<b>Reading List and References</b>	Related books and journal articles	