

Subject Description Form

Subject Code	ABCT5011
Subject Title	Food Safety Risk Analysis
Credit Value	6
Level	5
Pre-requisite / Co-requisite/ Exclusion	Nil
Objectives	This subject aims to equip students with skills for applying risk analysis, including 1) risk management, 2) risk assessment and 3) risk communication, to handle food safety problems. Students will be trained through exercise and mock cases to gain experience in food safety risk analysis.
Intended Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> know and understand the principles of risk analysis, and how to utilize it to make decisions related to food safety and other health issues know the systematic approaches, tools and techniques to address specific food safety problems have the knowledge to participate in the risk management decision process understand how to communicate effectively about risk with peers, managers, and stakeholders demonstrate the skills in information acquisition, problem-solving and critical thinking
Subject Synopsis/ Indicative Syllabus	<p><u>1. Food Safety Risk Analysis in the Regulatory Process</u></p> <p>This module aims to provide students an overview of importance of food safety risk analysis in regulation and international trade</p> <ul style="list-style-type: none"> • Introduction to risk analysis • Principles of risk management decision-making • Risk analysis and the WTO • General principles of food law • How risk analysis fits into food safety law systems <p><u>2. Risk Management</u></p> <p>Risk Management in the context of food safety is- the process of weighing policy alternatives to control risks as effectively as possible. Risk managers are the decision makers. Success in risk management means arriving at practical and useful solutions to problems that are often plagued by uncertainty. Risk managers begin and end all risk analysis activities, they are responsible for the risk analysis process. It will cover the following topics:</p> <ul style="list-style-type: none"> • Risk manager's role and how we think about things • Risk management frameworks and models

	<ul style="list-style-type: none">• Principles of decision-making and the constraints• Dealing with uncertainty of risk assessment• Risk management options and decision• Interactions between risk manager and risk assessor <p><u>3. Risk Assessment</u></p> <p>Food Safety Risk Assessment predicts the likelihood of harm resulting from exposure to chemical, microbial and physical agents in the diet. It will cover the following topics:</p> <ul style="list-style-type: none">• Context of food safety risk assessment• Risk assessor's toolbox• Application to food-borne and related hazards• Components of risk assessment <p><u>4. Risk Communication</u></p> <p>Risk Communication is the interactive exchange of information and opinions about hazards and risks, risk-related factors and risk perception. It will cover the following topics:</p> <ul style="list-style-type: none">• Principles of risk communication• Establishing your goal• Risk perception and understanding your audience• Creating your message• Communication in action																																																						
Teaching/Learning Methodology	For each component, course materials will be delivered through lectures, discussion, exercise and assignments, case studies and peer learning.																																																						
Assessment Methods in Alignment with Intended Learning Outcomes	<table><tr><th rowspan="2">Specific assessment methods/tasks</th><th rowspan="2">% weighting</th><th colspan="6">Intended subject learning outcomes to be assessed (Please tick as appropriate)</th></tr><tr><th>a</th><th>b</th><th>c</th><th>d</th><th>e</th><th></th></tr><tr><td>1. Quiz</td><td>25 %</td><td>√</td><td>√</td><td>√</td><td></td><td></td><td></td></tr><tr><td>2. Group Discussion Participation and Contribution</td><td>10 %</td><td>√</td><td>√</td><td>√</td><td>√</td><td></td><td></td></tr><tr><td>3. Group Project</td><td>35 %</td><td>√</td><td>√</td><td>√</td><td>√</td><td>√</td><td></td></tr><tr><td>4. Individual Assignments</td><td>30 %</td><td></td><td>√</td><td>√</td><td>√</td><td>√</td><td></td></tr><tr><td>Total</td><td>100 %</td><td colspan="6"></td></tr></table>	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)						a	b	c	d	e		1. Quiz	25 %	√	√	√				2. Group Discussion Participation and Contribution	10 %	√	√	√	√			3. Group Project	35 %	√	√	√	√	√		4. Individual Assignments	30 %		√	√	√	√		Total	100 %						
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	<p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</p> <p>Quiz will be used to assess students' understanding of the lecture materials. Group discussion and presentation will allow students to learn in a flipped classroom setting. Individual assignments and group project are used to assess student's understanding of course material and the ability to apply the knowledge to case scenarios.</p>	
Student Study Effort Expected	Class contact:	
	▪ Lecture	66 Hrs.
	▪ Tutorial	12 Hrs.
	Other student study effort:	
	▪ Preparation for Individual Assignment/ Group Project Presentation	50 Hrs.
	▪ Self study	90 Hrs.
	Total student study effort	218 Hrs.
Reading List and References	<p>Core reading materials will be given at class.</p> <p>Other references:</p> <ul style="list-style-type: none"> • Hoboken, N.J. (2011) Risk assessment : theory, methods, and applications • Hoboken, N.J. (2011) Risk and crisis communications methods and messages 	