## **Subject Description Form**

Subject Code	CSE40467				
Subject Title	Environmental Management Systems				
Credit Value	3				
Level	4				
Exclusion	CSE467 Environmental Management Systems				
Objectives	To provide students with an overview of corporate environmental				
	management, and Environmental Management System (EMS),				
	particularly the ISO14001 standards.				
Intended	Upon completion of the subject, students will be able to:				
Learning					
Outcomes	a. understand the needs for environmental management in				
	an organization;				
	analyse corporate environmental issues, and develop				
	the implementation plan of an appropriate EMS.  c. to recognize the need for, and to engage in life-long				
	c. to recognize the need for, and to engage in life-long learning				
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Subject Synopsis/	1. <u>Environmental Legislation</u> and Organization Policy Environmental policy and regulation; sustainable				
Indicative Syllabus	Environmental policy and regulation; sustainable development; economical incentives in corporation				
	environmental management.				
	chvironmentar management.				
	2. Environmental Management System				
	Corporate environmental programme; development of				
	environmental management system (EMS); global				
	environmental reporting.				
	3. Environmental Management System Standard (ISO14000)				
	Structure of ISO14000; ISO14001 EMS; life cycle analysis				
	(LCA); and environmental labeling.				
	4. Implementation of an <u>EMS</u>				
	Environmental effects and environmental targets;				
	environmental management plan; environmental manual and				
	documentation; EMS audit; and management review.				
Teaching/Learning Methodology	The subject teaching will include the following elements:				
<i>O</i>	(a) Lectures – to introduce the basic concepts of EMS,				
	environmental management process, and analytical skills;				
	(b) Tutorials – to answer student questions in the learning				
	processes;				
	(c) Group discussion and presentations – to let students working together with a case study;				
	(d) Reading materials and video presentations – to give students				
	practical examples on EMS;				
	(e) Seminars on EMS by invited speakers from corporate				
	environmental directors and managers; and				
	(f) Course work on EMS.				

<b>Assessment Methods</b>						
in Alignment with	Specific assessment	%	Intended subject learning		arning	
Intended Learning	methods/tasks	weighting				
Outcomes			a	b	c	
	1. Continuous	45	V	V		
	Assessment	43	V	٧		
	2. Seminar Report	5			$\sqrt{}$	
	3. Final Examination	50	V	V		
	Total	100				
	Students must attain at least grade D in both coursework and final examination (whenever applicable) in order to attain a passing grade in the overall result.					
Student Study Effort Expected			Avera	age hours	per week	
	Class contact:					
	<ul> <li>Lectures/ Tutorials/Group discussion</li> </ul>		3 Hrs.			
	Other student study effort:					
	■ Reading/case/study/reports		1.4 Hrs.			
	<ul> <li>Self Study</li> </ul>		4.6 Hrs			
	Total student study effort	study effort 9 Hrs.				
Reading List and References	Christopher Sheldon, 2002. <i>Installing Environmental Management Systems: A Step-by-step Guide</i> . Earthscan, London.					
	nmental .	Auditing.				
	Gayle Woodside, 2002. ISO 14001 Auditing Manual. McGraw-Hill, New York.					
	Jacob Bregman, 2002. Environmental Compliance Handbook. Lewis Publishers, Boca Raton, Fla.USA.					
	John Kinsella, 1999. Handbook for Implementing An ISO 14001 Environmental Management System: A Practical Approach. EMCON, Bothell, WA. USA.					