## **Subject Description Form**

Subject Code	CSE377					
Subject Title	Occupational Health and Hygiene					
Credit Value	3					
Level	3					
Pre-requisite / Co-	Nil					
requisite/ Exclusion						
Objectives	(1) To deliver basic concepts in occupational health and hygiene;					
<b>y</b>	(2) To have a clear understanding on the environmental stressors					
	influencing health;					
	(3) To have an understanding on problems of occupational health					
	and hygiene and contribute to discussion on the problems in					
	HK.					
	(4) To learn how to monitor occupational exposure.					
Intended Learning	Upon completion of the subject, students will be able to:					
Outcomes						
	a. explain the effects of various chemical (gases/vapors,					
	dusts/mists/fumes), physical, and biological agents in the					
	<u> </u>					
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	c. work with others in groups, and take a responsibility for an					
	agreed area of a shared activity;					
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Indicative Syllabus	health standards and ethical code of conduct.					
	Descrition of Herenday Desig Imageledge of different types of					
	particulate, Hazard-recognition procedures.					
	Evaluation: Basic knowledge of various monitoring methods for					
	e e					
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	and third trought (1 thir).					
	Control: Basic knowledge of hierarchy of Controls: substitution.					
Subject Synopsis/ Indicative Syllabus	<ul> <li>dusts/mists/fumes), physical, and biological agents in the workplace;</li> <li>b. discuss the hierarchy of controls and its application to hazard control;</li> <li>c. work with others in groups, and take a responsibility for an agreed area of a shared activity;</li> <li>d. understand problems of occupational health and hygiene and contribute to discussion on these problems in Hong Kong.</li> </ul>					

	Environmental monitoring and audit. Use of Occupational Health								
	data in the General Community: Concept of healthy community;								
Teaching/Learning Methodology	Effects of occupational hazards in community.  Basic understanding of the scope of occupational health and hygiene will be covered in the lectures. Discussion of case studies in tutorial sessions will allow students to relate to real problems. Small group project work will be used to investigate specific occupational hazards.								
	Laboratory will provide students with opportunities to learn (1) how to operate analyzers, (2) to carry out monitoring of occupational hazards and (3) data handling and interpretation.								
	Independent study and associated reading will require students to conduct some problem-solving exercises individually, analyze the experimental data obtained from laboratory sessions and prepare integrated laboratory reports.								
Assessment	Specific	% weighting	Inte	endec	l sub	ject l	earning	g	
Methods in	assessment		out	come	es to	be as	ssessed		
Alignment with	methods/tasks		a	b	c	d	e	f	
Intended Learning	1. Test/ Quizzes		$\sqrt{}$						
Outcomes	2. Laboratory and Seminar Reports	15	√				$\sqrt{}$	√ 	
	3. Group Presentation	10	√	<b>√</b>	<b>V</b>	<b>√</b>	V		
	4. Final Examination	60	√	$\sqrt{}$		√	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.  The continuous assessment methods, including test/ quizzes, laboratory and seminar reports and group project, are used to assess the students' learning outcomes  The final examination is to assess how much the students has learnt in this subject.								
		Class contact:			Average hours per week				
Student Study	Class contact:				Av	erage	hours	per week	
Student Study Effort Expected		aboratory / Tuto	rials		Ave	erage	hours	per week 3 Hrs.	
•		•	rials		Ave	erage	hours	1	

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	<ul><li>Self Study</li></ul>	3.5 Hrs.				
	Total student study effort	9 Hrs.				
Reading List and References						
	Reference Textbooks:					
	Asfahl, C. R. (2010). <i>Industrial Safety and Health Managem</i> Edition). Upper Saddle River, N. J.: Prentice Hall.  LaDou, J. (2007). <i>Current Occupational and Environmental Medicine</i> . (4th Edition). New York: Medical McGraw Hill.					
	Levy, B. S. and Wegman, D. H. (Editors). Health: Recognizing, Preventing Work-rel (4th edition). Philadelphia: Lipincott Willi Wolters Kluwer Company.	ated Disease and Injury.				
	Plog, B. A. and Quinlan, P. J. (Editors). (2 <i>Industrial Hygiene</i> . Itasca, Ill: National Sa	,				
	Ridley, J. and Channing, J. (1999). <i>Occupational Health and Hygiene: Volume 3 of the Safety at Work Series</i> . Oxford: Butterworth-Heinemann.					
	Rogers, B. (1994). <i>Occupational Health N</i> <i>Practice</i> . Philadelphia: W. B. Saunders Co	-				
	Tillmann, C. (Editor). (2007). Principles of Occupational Health & Hygiene. Crows Nest, NSW: Allen & Unwin.					