Subject Description Form

Subject Code	CSE49984						
Subject Title	Design Project for Environmental Engineering						
Credit Value	4						
Level	4						
Pre-requisite /	Pre-requisites: CSE30438 Water Supply and Sewage Engineering						
Co-requisite/	Exclusion: CSE40484/CSE49484 Design Project for Environmental						
Exclusion	Engineers						
Objectives	To enable the students to develop the first hand practical design						
3	experience before graduation.						
Intended Learning	Upon completion of the subject, students will be able to:						
Outcomes							
	 a. utilize the techniques, skills, and modern engineering tools necessary to undertake a design of solutions for an environmental engineering problem within constraints under the guidance of industrial and academic supervisors; b. an ability to identify, formulate and solve engineering problems; c. communicate logically and lucidly through drawing calculation, and in writing; d. present ideas and arguments verbally in formal presentations and informal discussions, and negotiate informally with peers function effectively in multi- disciplinary teams and take responsibility for an agreed area of a shared activity. 						
	e. recognize the need for, and to engage in life-long learning.						
Subject Synopsis/ Indicative Syllabus	Students will be required to participate in the formulation of a conceptual solution to an environmental engineering problem, appraisal of the feasible schemes and then carry out the design of the selected scheme. For example, the design of a wastewater treatment plant or sewer system for a new town development.						
Teaching/Learning	Time Allocation						
Methodology	The project will last for one term and the number of contact hours is 52. In general, students are expected to spend four hours a week on group discussion and consultations with their supervisors. Project briefing, lectures, and presentations of the projects will also be arranged.						
	The project is divided into four stages (please refer to the Schedule of Programme for details): a) Stage I - Feasibility Study and Scheme Appraisal b) Stage II - Formulation of Plan, Schedule and Procedures for the Design c) Stage III - Design for the Selected Scheme in details d) Stage IV - Report and Drawing Preparation Group Sizes/Accommodation Students will be divided into 6 groups, and two class rooms will be						
	arranged for group discussion and general drawing work.						

	Supervision							
	The supervising team consists of an academic staff and two visiting							
	lectures. The academic staff and visiting lecturers with practical							
	engineering design experience, can contribute to formulate projects							
	that are based on real engineering problems and bring in up-to-date practical engineering knowledge.							
Assessment Methods								
in Alignment with	Specific assessment	%	Inton	inton dod on his at 1 s - ····i···				
Intended Learning	Specific assessment methods/tasks	weighting		ntended subject learning butcomes to be assessed				
Outcomes	incinous/tasks weighting			a b c d e				
	1. Project Presentation	50	$\sqrt{\frac{a}{}}$	1	1	$\sqrt{}$	1	
	2. Project Report	50	V	V	1	V		
	Total	100	,	1 '	'	'	1	
	Students must pass bot							
	Report, and achieve a passing overall score/ grade to pass the subject. Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:							
	Assessment Methods	Individual					o1	
	Assessment Methods	Effort for the		Group Effort for the		Tota	ai	
		Project		Project				
	Project Presentation:							
	Consultation	25%		5%		30%		
	Meetings							
	Presentation for	6%		4%		10%		
	Scheming							
	Presentation for Final	6%		7% 10%		10%		
	Design							
	Project Report:	I				1		
	Report on Scheming	13%				20%		
	Report on Final Design	20%				3	80%	
	Total	70%	30%		100%			
Student Study		A	Average hours per weel					
Effort Required								
	Class contact:							
	Consultation/Group Meetings					3	.4 Hrs.	
	 Project Presentation and Feedback 					(0.6 Hrs	
	Other student study effort:							
	Self Study and Project Works					8	Hrs.	
	Total student study effort			12 Hr				
Reading list and references	To be provided by the p	project supervi	sor.					