## **Subject Description Form**

Subject Code	CSE48404
Subject Title	Design Project for Civil Engineers
Credit Value	4
Level	4
Pre-requisites /	Pre-requisites: All CSE level 3 subjects
Exclusion	Exclusion: CSE49404 Design Project
Objectives	To enable the students to develop the first hand practical design experience before graduation.
Intended Learning	Upon completion of the subject, students will be able to:
Outcomes	1. apply the fundamentals of applied science, mathematics, and statistical methods to formulate effective solutions across a wide range of civil engineering domains;
	2. identify, structure and analyze diverse problems arising from the changing constraints that influence engineering projects, such as economic, environmental, legal, social, health and safety, sustainability, and technological considerations;
	3. develop and function effectively in multi-disciplinary teams;
	4. to synthesize logical solutions to civil engineering problems independently with a creative and imaginative mind;
	5. to work professionally and ethically;
	6. communicate logically and lucidly through drawing, calculation, and in writing;
	7. acquire broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
	8. utilize the techniques, skills, and modern engineering tools necessary for engineering practice to meet desired needs within realistic constraints;
	9. cope with challenges and developments of the profession, including the increasing application of information technology in practice.
	10. to recognize the need for, and to engage in life-long learning
	The above-mentioned are written in line with the outcomes of the

	degree programme.									
Subject Synopsis/ Indicative Syllabus	Students will be required to participate in the formulation of conceptual solutions to a large scale civil engineering problem, appraisal of the feasible schemes and then recommend the selected scheme with rationale and justification. For example, a link is required to connect two places within an area where ground conditions and difficulties of access are apparent. Students may be required to examine the feasibility of various proposed elevated road crossing schemes and explain with acceptable reasons for the finally chosen scheme. Students would also consider the construction techniques, the scheduling and management of the construction phase of the project and costs.									
Teaching/Learning Methodology	•									
Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment weighting to be assessed (Please tick as appropriate)  #1. Project Presentation    Mathematical Project   1   2   3   4   5   6   7   8   9   10   10   10   10   10   10   10									

	Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:  In this subject, students will work in a group and will have regular group discussions and meetings with their supervisors. Assessments methods include #1. Project Presentation which comprises of consultation meetings (30%), interim presentation (10%) and final presentation (10%) and ## 2. Project Report which comprises of seminar report, interim report (20%) and final report (30%).  Among the above weighting, 30% of it refers to group effort while 70% refers to individual effort.  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	Class contact:								Av	p	ge ho	eek			
	Consultation Meetings								2.7 Hrs.						
	<ul> <li>Project Presentation and Feedback</li> <li>0.</li> </ul>								).3 H	3 Hrs.					
Other student study effort:															
	<ul> <li>Self Study and Project Works</li> <li>9 I</li> </ul>								Irs.						
	Total student study	y effort									12 F	Irs.			
Reading List and References	To be provided by	the project	supe	rvisc	ors.										