Subject Description Form

Subject Code	BSE2838/IC238				
Subject Title	Construction Drawing and CAD for BSE				
Credit Value	1 Training Credit				
Level	2				
Pre-requisite/ Co-requisite/ Exclusion	Nil				
Objectives	This subject aims to equip students with the techniques to present engineering design using manual and Computer-Aided Design (CAD) drawings.				
Intended Learning Outcomes	Upon completion of the subject, students will be able to: a. create construction drawings to recognized conventions and standards; and b. interpret construction drawings.				
Subject Synopsis/ Indicative Syllabus	 Manual Drawings Introduction of drawing instruments Industry recognized drawing conventions and standards such as views, projection, line type, size and scale, grid lines, annotations etc.; and Techniques for manual drawings. CAD Drawings Introduction of CAD software Command CAD commands such as views, line type, scale, multiline, annotations etc.; and 				
Learning Methodology	 Techniques for CAD drawings and documentation. The subject will be delivered through the following learning methods: a. Mini-lectures – Lectures and demonstrations are used to introduce and explain key concept, definition and application of construction drawing; b. Drawing practice - Students are arranged to have hands-on workshops to practice construction drawing techniques and CAD drafting; and c. Assignments - Individual assignments are arranged to sharpen students' drawing skills. 				

Assessment Methods in	Assessment Method	Weighting (%)		Intended Subject Learning Outcomes Assessed		
Alignment with Intended Learning Outcomes				a	b	
	Assignments	70		✓	✓	
	Tests	30		✓	✓	
	Assignments - Students' performance are assessed continuously by assignments in the form of drawings. Tests - Drawing test is used to assess students on their drawing skills.					
Student Study	Class Contact					
Effort Required	Mini lecture and demonstrat	ion		9 Hrs		
	Hands-on practice and test			18 Hrs		
	Other Study Effort					
	Drawing practice		8 Hrs			
	Total Study Effort: 35 H					
Reading List and References	 Reading Materials: IC Training Materials and Presentation for Construction Students (http://www2.ic.polyu.edu.hk/bcu/learningmaterialspowerpoints.html) References: British Standards Institution Construction Drawing Practice (BS1192: Part 1, 2, 3, 4, 5). Giesecke, Frederick E. Modern Graphics Communications. Fifth ed. Boston: Prentice Hall, 2018. 					