## **Subject Description Form**

Subject Code	COMP5134				
Subject Code					
Credit Value	Information System Development with Object-Oriented Methods 3				
	5				
Level					
Pre-requisite/ Exclusion	Nil				
Objectives	The objectives of this subject are to:				
	<ol> <li>introduce IS development life cycle including information requirements determination, modelling, analysis and design, and implementation;</li> <li>enable students to understand, apply and be able to distinguish between structured and object-oriented development methods;</li> <li>enable the students with an in-depth understanding of the advanced concepts in the object-oriented approach to information system development.</li> </ol>				
Intended Learning	Upon completion of the subject, students will be able to:				
Outcomes Subject Synopsis/ Indicative Syllabus Teaching/Learning Methodology	<ul> <li>a) conduct critical analysis on business problems using the OO approach in a creative manner;</li> <li>b) design information system solution to real-life business problems using the OO approach; and</li> <li>c) articulate the strengths and weaknesses of OO solutions to business problems.</li> <li>Introduction to System Development: Systems Life Cycle, Information Requirement Analysis, Systems Analysis/Design, Implementation, Testing, Requirements Engineering.</li> <li>Development Method: Agile, Iterative Development, UML</li> <li>OO Method: Inheritance, Polymorphism, Design Patterns</li> <li>Class activities including - lecture, tutorial, lab, workshop seminar where applicable</li> </ul>				
Assessment Methods in		0/	Γτ.	1 1 1 .	
Alignment with Intended Learning Outcomes	Specific Assessment Methods/Tasks	% weighting	Intended subject learning outcomes to be assessed a b c		
	Assignments, Tests & Projects	55	✓	<ul> <li>✓</li> </ul>	<i>✓</i>
	Final Examination	45	✓	✓	✓
	Total	100		•	<u> </u>
Student study effort	Class Contact:				
expected	Class Contact:Class activities (lecture, tutorial, lab)39 hoursOther student study effort:				urs
	Assignments, Quizzes, Projects, Exams 66 hours				
	Total student study effort105 hours				

Reading list and references	(1) Craig Larman, 2004, Applying UML and Patterns: An Introduction to Object-Oriented Analysis and Design and Iterative Development, Prentice Hall
	(2) Bennett, S., Ray, Farmer, R., 2010, Object-Oriented Systems Analysis and Design Using UML, 4 <sup>th</sup> Ed, McGraw-Hill.