Subject Description Form

Subject Code	COMP5134					
Subject Title	Information System Development with Object-Oriented Methods					
Credit Value	3					
Level	5					
Pre-requisite/ Exclusion	Nil					
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Objectives	The objectives of this subject are to:					
	 introduce IS development life cycle including information requirements determination, modelling, analysis and design, and implementation; enable students to understand, apply and be able to distinguish 					
	between structured and object-oriented development methods;					
	3. enable the students with an in-depth understanding of the					
	advanced concepts in the object-oriented approach to					
	information system development.					
Intended Learning Outcomes	Upon completion of the subject, students will be able to:					
	a) analyze business problems using the object-oriented approach;					
	b) design an information system solution to business problems					
	using the OO approach; and					
	c) articulate the strengths and	l weaknesses o	of OO so	olutions	to	
	business problems.					
Subject Synopsis/	• Introduction to System Development: Systems Life Cycle,					
Indicative Syllabus	Information Requirement Analysis, Systems Analysis/Design,					
	 Implementation, Testing, Requirements Engineering. Development Method: Agile, Iterative Development, UML 					
	 Development Method: Agile, Iterative Development, UML OO Method: Inheritance, Polymorphism, Design Patterns 					
Teaching/Learning	Class activities including - lecture, tutorial, lab, workshop					
Methodology	seminar where applicable					
Assessment Methods in						
Alignment with Intended Learning Outcomes	Specific Assessment Methods/Tasks	% weighting	Intended subject learning outcomes to be assessed			
				b		
	Assignments, Tests &		a ✓	<u>√</u>	c ✓	
	Projects	55				
	Final Examination	45	✓	✓	✓	
	Total	100				
Student study effort	Class Contact:					
expected	Class activities (lecture, tutorial, lab) 39 hours				ours	
	Other student study effort:					
	Assignments, Quizzes, Projects, Exams 65 hours				ours	
İ	Assignments, Quizzes, 1 Toject	otal student study effort 104 hours				
	Total student study effort					
Reading list and references				atterns	: An	

Iterative Development, Prentice Hall
(2) Bennett, S., Ray, Farmer, R., 2010, Object-Oriented Systems Analysis and Design Using UML, 4 th Ed, McGraw-Hill.