

COURSE INFORMATION

1.	Name of Course		Information Systems Planning and Development												
2.	Course Code		TIS3251												
3.	Type of Course (e.g. : Core, major, elective etc.)		Specialization Core for BCS (IS)												
4.	Synopsis		This course aims to equip the students with skills on planning and developing information systems. The main topics cover the different types of information systems, methodologies and management approaches in the planning and development of information systems, and lesson on enterprise software.												
5.	Version (State the date of the Senate's approval - previous and the current approval date)		Current: January 2018 Previous: June 2016												
6.	Name(s) of Academic Staff		Helmi Mohamed Hussain												
7.	Semester and Year Offered		Trimester 2 (Gamma Level)												
8.	Credit Value		4 credit hours												
9.	Pre-Requisite		NIL												
10.	Objective of the course in the programme: <ul style="list-style-type: none"> To expose students to processes and techniques in planning and developing information systems To understand the systematic procedures in planning and developing computer-based information systems. To understand the rudimentary skills for building the information systems. 														
11.	Justification for including the course in the programme: To provide students with the knowledge on how information systems are planned and developed using a variety of techniques and tools.														
12.	Course Learning Outcomes (CLO)		Domain	Level											
	CLO1:	Describe information systems in a variety of contexts using a range of appropriate approaches and techniques.	Cognitive	1											
	CLO2:	Explain the different phases and stages involved in the planning and development of information systems.	Cognitive	2											
	CLO3:	Demonstrate a variety of methods involved in the methodologies for information systems.	Affective	3											
	CLO4:	Apply the tools and techniques by using enterprise software in the process of planning and development of information systems.	Cognitive	3											
13.	Mapping of the Course Learning Outcomes to the Programme Learning Outcomes, Teaching Methods and Assessment:														
	Course Learning Outcomes (CLO) (Must tally with CLOs in item 12)	Programme Learning Outcomes (PLO)												Teaching Methods	Assessment Method
		P	P	P	P	P	P	P	P	P	P	P	P		
		L	L	L	L	L	L	L	L	L	L	L	L		
		O	O	O	O	O	O	O	O	O	O	O	O		
		1	2	3	4	5	6	7	8	9	0	1	2		
		CLO1							✓	✓					
	CLO2							✓	✓					Lecture/Practical	Test/Assignment/Final Exam
	CLO3							✓	✓	✓				Lecture/Practical	Test/Assignment/Final Exam
	CLO4							✓	✓	✓				Lecture/Practical	Assignment/Final Exam
	Total							4	4	2				Indicate the relevancy between the CLO and PLO by ticking "✓" the appropriate relevant box (This description must be read together with standards 2.1.2, 2.2.1, and 2.2.2 in Area 2 – pages 16 & 18 of COPPA 2.0)	
14.	Transferable Skills: Critical thinking, Time management, Leadership														
15.	Distribution of Student Learning Time (SLT)														
	Course Content Outline	**CLO	Teaching and Learning Activities				Guided Learning (NF2F)*	Independent Learning (NF2F)*	Total SLT						
			Guided Learning (F2F)*												
			*L	*T	*P	*O									
1	Information Systems Vision The Information Systems environment; The challenges of Information Systems; Current trends in influencing Information Systems strategy and deployment	1	2		2			4	8						
2	Transaction Processing Systems, Enterprise Resource Planning Systems, Management Information Systems, Decision Support Systems, Specialized Business Information Systems Overview; Characteristics; Components	1, 2, 3	6		6		8	12	32						
3	Information Systems Planning and Development for Large and Small Companies Comparisons; Problems; Critical success factor	1, 2, 4	4		4			8	16						
4	Systems Development: Steps, Tools and Issues Overview: Factors of successful systems development; Systems development steps; Systems development tools and techniques; Types of testing and user acceptance; Managing changes	1, 2, 3, 4	2		4		4	6	16						
5	Methodologies for Custom Software Development and Purchased Software Packages SDLC, Prototyping, Rapid Application Development, Outsourcing management; Develop or purchase decision, Purchasing methodology, ERP packages, Application Service Providers	1, 2, 3, 4	2		4		4	6	16						
6	Information Systems Planning Management Approach Project portfolio management; Project initiation, planning, execution and control, and closing; Project acquisition process; Managing complex Information Systems projects	1, 2, 3, 4	4		4			8	16						

7	Strategic Information Systems	1, 2, 3	2	2			4	8							
	Identifying Strategic Information Systems; Knowledge creation and organizational learning; Implementing Strategic Information Systems														
	Total SLT								112						
	SUMMATIVE ASSESSMENT														
	1. Continuous Assessment								Percentage %				Total SLT		
	Test								20%				12		
	Assignment								30%				14		
									Total SLT for Continuous Assessment				26		
	2. Final Assessment								Percentage %				Total SLT		
	Final Exam								50%				F2F	ILT	
													2	20	
									Total SLT for Final Assessment (F2F + NF2F)				22		
	Grand Total								100%				160		
**Indicate the CLO based on the CLO's numbering in Item 12.															
*L= Lecture, *T= Tutorial, *P= Practical, *O= Others, F2F*= Face to Face, NF2F*= Non Face to Face															
16	Identify Special Requirement to Deliver the Course (e.g., software, nursery, computer lab, simulation room): Enterprise Resource Planning software: SAP ERP														
17	Main References:														
18	Additional References: 1. Carol V. Brown, Daniel W. DeHayes, Jeffrey A. Hoffer, E. Wainright Martin, and William C. Perkins (2012) Managing Information Technology. 7th ed. Prentice Hall. 2. Ralph M. Stair and George W. Reynolds (2015) Principles of Information System. 12th ed. Thomson. 3. Leonard Jessup, and Joseph Valacich (2013) Information Systems Today: Managing in the Digital World. 6th ed. Prentice Hall. 4. Richard L. Van Horn, Albert B. Schwarzkopf, and R. Leon Price (2006) Information Systems Solutions: A Project Approach. 1st ed. McGraw-Hill.														

Note:

Cells shaded light grey contain formulas / fixed values. Edit these formulas only if needed.