MULTIMEDIA UNIVERSITY®

SUMMARY OF INFORMATION ON EACH COURSE

1.	Name of Course	Information Systems Development	
2.	Course Code	TSD2241	
3.	Status of Course [Applies to (cohort)]	Specialisation Core for B.IT (Hons) Information Technology Management	
4.	MQF Level/Stage Note : *Certificate – MQF Level 3* *Diploma – MQF Level 4* *Bachelor – MQF Level 6* *Masters – MQF Level 7* *Doctoral – MQF Level 8*	Bachelor – MQF Level 6	
5.	Version (State the date of the Senate approval – history of previous and current approval date)	Date of previous version : December 2013 Date of current version : June 2014	
6.	Pre-Requisite	None	
7.	Name(s) of academic/teaching staff	Lee Chin Poo Leow Meng Chew	
8.	Semester and Year offered	Trimester 2, Year 2	
9.	Objective of the course in the programme : Managing an information system require a skill as well systematic procedures. This course should help the student to develop rudimentary skills for building computer-based information systems from information needs analysis to hardware and software, using a systematic approach.		
10.	Justification for including the course in the programme : It provides an overall view of the phases involved in information systems development starting from the planning phase until the maintenance phase. It also covers different types of information system in an organisation and types of approaches in developing a system.		
11.	Course Learning Outcomes :	Domain	Level
	LO1 Describe the basic philosophy and concepts of information systems	Cognitive	Level 1
	LO2 Explain the basic components of information systems.	Cognitive	Level 2
	LO3 Distinguish various types of information systems.	Cognitive	Level 4

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	LO4 Identify the steps and issues involved in information system design and development.	Cognitive	Level 4

12. Mapping of Learning Outcomes to Programme Outcomes :

Learning Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
LO1	X						X	X	X
LO2	X						X	X	X
LO3	X						X	X	X
LO4	X						X	X	X

13. Assessment Methods and Types :

Method and Type	Description/Details	Percentage
1 Quiz	Quizzes	10%
2 Assignment	Assignments	20%
3 Test	Written examination	20%
4 Final Examination	Written examination	50%

14. Mapping of assessment components to learning outcomes (LOs)

Assessment Components	LO1	LO2	LO3	LO4
Assessment 1: Quiz	10	10	10	
Assessment 2: Assignment	20	20	20	100
Assessment 3 Test	20	20	20	
Assessment 4: Final Exam	50	50	50	

15. Details of Course

Topics	Mode of Delivery (eg : Lecture, Tutorial, Workshop, Seminar, etc.) Indicate allocation of SLT (lecture, tutorial, lab) for each subtopic	
	Lecture	Tutorial

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	Introduction to Information Systems - Information & computer system - Trends in business management - The value of information systems, i.e. competitive advantage - Organization and information systems - Performance based information systems - Types of Business Information Systems - Careers in information systems	2	1
	Requirements of Information Systems - Hardware: Input, Processing and Output devices - Computer Systems types, selection and upgrading - Software: Systems and Application Software - Generations of Programming Languages: Low level, High-level; Personal Computer Business Software - Software issues and trends	2	1
	Enterprise Systems - Transaction Processing Systems - The Transaction Processing activities - Control and management issues - Traditional Transaction Processing Applications - Specialized Transaction Processing system - Enterprise Resource Planning - Supply Chain Management - Customer Relationship Management - Issues with Enterprise Systems	2	1
	Information and Decision Support Systems - Decision making and problem solving - Management Information System (MIS) - Decision Support Systems (DSS) - Group Support System (GSS) - Executive Support System (ESS)	3	1.5

	Specialized Information Systems - Components and Application of artificial intelligence (AI) - Expert Systems - Knowledge Management Systems - Robotics Systems - Virtual Reality Systems - Vision Systems - Natural Language Processing and Voice Recognition Systems - Neural Networks - Learning Systems	3	1.5
	System Development Approaches - An Overview: Factors of Successful System Development - Potential Problems for System Development - Developing a Competitive Advantage - Participants in System Development - Information System Planning: The Importance, Advantages, - System development approaches - Factors affecting system development success	4	2
	System Development : Investigation and Analysis - Initiating system investigation - Feasibility analysis - Object Oriented systems investigation - Systems investigation report - System analysis - Data collection and analysis - Requirement analysis - Object oriented systems analysis - Systems analysis report	4	2

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	System Development: Design, Implementation, Maintenance and Review - System Design - Environmental design considerations - The Design Report - System Implementation - Acquiring software, hardware, database and telecommunication systems - User preparation - System operation and maintenance - Relationship between maintenance and design - Systems Review procedures - Systems performance measurements	6	3
	Information Systems in Business and Society - Potential problems with computers and information systems - Computer-related crimes and preventive measures - Privacy issues - The work environment - Ethical issues in Information Systems	2	1
	Total	28	14

16.	Total Student Learning Time (SLT)	Face to Face / Guided Learning	Independent Learning
	Lecture	28	28
	Tutorials	14	14
	Laboratory/Practical	0	0
	Presentation	0	0
	Assignment	0	10
	Mid Term Test	1	3
	Final Exam	2	18
	Quizzes	2 times	2
	Sub Total	45	75
	Total SLT	**120**	
16.	Credit Value	**3**	
17.	Reading Materials :		
	Textbooks		

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	1.Ralph M. Stair and George Reynolds, "Principles of Information Systems", 11th Ed., Cengage Learning, 2013.
	Reference Material (including 'Statutes' for Law)
	1.Raymond McLeod and George Schell, "Management Information Systems", 10th Ed., Prentice Hall, 2007.

Appendix (to be compiled when submitting the complete syllabus for the programme) :

1. Mission and Vision of the University and Faculty
2. Programme Objectives or Programme Educational Objectives
3. Programme Outcomes (POs)
4. Mapping of POs to the 8 MQF domain
5. Summary of the Bloom's Taxonomy's Domain Coverage in all the Los in the format below :

Subject	Learning Outcomes (please state the learning 0utcomes)	Bloom's Taxonomy Domain		
		Affective	Cognitive	Psychomotor
ABC1234	Learning Outcome 1			
	Learning Outcome 2			
	Learning Outcome 3			
	Learning Outcome 4			
DEF5678	Learning Outcome 1			
	Learning Outcome 2			
	Learning Outcome 3			
	Learning Outcome 4			

6. Summary of LO to PO measurement
7. Measurement and Tabulation of result for LO achievement
8. Measurement Tabulation of result for PO achievement