

## COURSE INFORMATION

1	<b>Name of Course</b>	Management Information Systems									
2	<b>Course Code</b>	DCS5138									
3	<b>Type of Course</b> (e.g. : Core, major, elective etc.)	Core for <i>Diploma in Business Information Systems</i> Elective for <i>Diploma in Information Technology</i>									
4	<b>Synopsis</b>	This course educates students the role and business value of information systems in today's organizations. The course covers the various types of information systems and their roles in supporting business operations, decision makings, managerial functions and collaborations.									
5	<b>Version</b> (State the date of the Senate's approval - previous and the current approval date)	Current: June 2017 Previous: ADC 0915 Senate 181 Nov 2015 New version :ADC Oct 2017 Special Senate 93 Nov 2017									
6	<b>Name(s) of Academic Staff</b>	Mardhiyah Ahmad, Norihan Hamzah, Rubiah Yunus, <b>Tan Su-Mae</b>									
7	<b>Semester and Year Offered</b>	Semester 2 Year 1									
8	<b>Credit Value</b>	3									
9	<b>Pre-Requisite</b>	None									
10	<b>Objective of the course in the programme:</b>										
	1. To provide students the concepts, principles and practices of management information systems in the context of today's business and organization. 2. To provide students with business and information system skills to meet organizational challenges and create business value.										
11	<b>Justification for including the course in the programme:</b>										
	Information and communications technology are transforming the way of doing business and communicating with people around the world. This subject introduces the strategic business objectives and values of investing in information systems. Students gain an overview of all aspects of management information systems including fundamentals of information systems, types of information systems used at different levels of management to support decision making and the approaches in building information systems and managing projects.										
12	<b>Course Learning Outcomes (CLO)</b>	<b>Domain</b>	<b>Level</b>								
	<b>CLO1:</b> Describe how information systems are used to achieve strategic business objectives.	Cognitive	2								
	<b>CLO2:</b> Discuss the types of information systems that support the different types of decision making at the operational, middle and senior management level in an organization.	Cognitive	2								
	<b>CLO3:</b> Describe the process of building and managing information systems.	Cognitive	2								
13	<b>Mapping of the Course Learning Outcomes to the Programme Learning Outcomes, Teaching Methods and Assessment:</b>										
	<b>Course Learning Outcomes (CLO)</b> (Must tally with CLOs in item 12)	<b>Programme Learning Outcomes (PLO)</b>							<b>Teaching Methods</b>	<b>Assessment Method</b>	
		P L O 1	P L O 2	P L O 3	P L O 4	P L O 5	P L O 6	P L O 7	P L O 8		
	CLO1	✓									Lecture/Tutorial Midterm Test, Assignment
	CLO2	✓									Lecture/Tutorial Final Exam
	CLO3	✓									Lecture/Tutorial Quiz
	<b>Total</b>	<b>3</b>									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	<b>Transferable Skills:</b>										
15	<b>Distribution of Student Learning Time (SLT)</b>										
	<b>Course Content Outline</b>	<b>**CLO</b>	<b>Teaching and Learning Activities</b>				<b>Guided Learning (NF2F)*</b>	<b>Independent Learning (NF2F)*</b>	<b>Total SLT</b>		
<b>Guided Learning (F2F)*</b>											
*L			*T	*P	*O						

1	<b>INFORMATION SYSTEMS IN BUSINESS TODAY</b> <ul style="list-style-type: none"> <li>• Understanding the effects of information systems on business and their relationship to globalization.</li> <li>• Explain why information systems are so essential in business today.</li> <li>• Define an information system and describe its management, organization, and technology components.</li> <li>• Define complementary assets and explain how they ensure that information systems provide genuine value to an organization.</li> <li>• Describe the different academic disciplines used to study information systems and explain how each contributes to our understanding of them.</li> <li>• Explain what is meant by a sociotechnical systems perspective.</li> </ul>	CLO1 CLO2	3	1			2	2	8
2	<b>ENHANCING DECISION MAKING</b> <ul style="list-style-type: none"> <li>• What are the different types of decisions and how does the decision-making process work?</li> <li>• How do information systems support the activities of managers and management decision making?</li> <li>• How do business intelligence and business analytics support decision making?</li> <li>• How do different decision-making constituencies in an organization use business intelligence?</li> <li>• What is the role of information systems in helping people working in a group make decisions more efficiently?</li> </ul>	CLO1 CLO2	3	2				5	10
3	<b>MANAGING KNOWLEDGE</b> <ul style="list-style-type: none"> <li>• What is the role of knowledge management and knowledge management programs in business?</li> <li>• What types of systems are used for enterprise-wide knowledge management and how do they provide value for businesses?</li> <li>• What are the major types of knowledge work systems and how do they provide value for firms?</li> <li>• What are the business benefits of using intelligent techniques for knowledge management?</li> </ul>	CLO1 CLO2	3	2				5	10
4	<b>INFORMATION SYSTEMS, ORGANIZATIONS, AND STRATEGY</b> <ul style="list-style-type: none"> <li>• Identify and describe important features of organizations that managers need to know about in order to build and use information systems successfully.</li> <li>• Demonstrate how Porter's competitive forces model helps companies develop competitive strategies using information systems.</li> <li>• Explain how the value chain and value web models help businesses identify opportunities for strategic information system applications.</li> <li>• Demonstrate how information systems help businesses use synergies, core competencies, and network-based strategies to achieve competitive advantage.</li> <li>• Assess the challenges posed by strategic information systems and management solutions.</li> </ul>	CLO1 CLO2	3	1			2	2	8

<p><b>FOUNDATIONS OF BUSINESS INTELLIGENCE: DATABASES AND INFORMATION MANAGEMENT</b></p> <ul style="list-style-type: none"> <li>• Describe how the problems of managing data resources in a traditional file environment are solved by a database management system</li> <li>• Describe the capabilities and value of a database management system</li> </ul> <p><b>5</b></p> <ul style="list-style-type: none"> <li>• Apply important database design principles</li> <li>• Evaluate tools and technologies for accessing information from databases to improve business performance and decision making</li> <li>• Assess the role of information policy, data administration, and data quality assurance in the management of a firm's data resources</li> </ul>	<b>CLO3</b>	2	1				3	6
<p><b>GLOBAL E-BUSINESS AND COLLABORATION</b></p> <ul style="list-style-type: none"> <li>• Define and describe business processes and their relationship to information systems.</li> <li>• Evaluate the role played by systems serving the various levels of management in a business and their relationship to each other.</li> </ul> <p><b>6</b></p> <ul style="list-style-type: none"> <li>• Explain how enterprise applications improve organizational performance.</li> <li>• Explain the importance of collaboration and teamwork in business and how they are supported by technology.</li> <li>• Assess the role of the information systems function in a business.</li> </ul>	<b>CLO2</b>	3	1				4	8
<p><b>SECURING INFORMATION SYSTEMS</b></p> <ul style="list-style-type: none"> <li>• Why are information systems vulnerable to destruction, error, and abuse?</li> <li>• What is the business value of security and control?</li> </ul> <p><b>7</b></p> <ul style="list-style-type: none"> <li>• What are the components of an organizational framework for security and control?</li> <li>• What are the most important tools and technologies for safeguarding information resources?</li> </ul>	<b>CLO3</b>	2	1			2	1	6
<p><b>BUILDING INFORMATION SYSTEMS</b></p> <ul style="list-style-type: none"> <li>• How does building new systems produce organizational change?</li> <li>• What are the core activities in the systems development process?</li> </ul> <p><b>8</b></p> <ul style="list-style-type: none"> <li>• What are the principal methodologies for modeling and designing systems?</li> <li>• What are the alternative methods for building information systems?</li> <li>• What are new approaches for system building in the digital firm era?</li> </ul>	<b>CLO2 CLO3</b>	3	1				4	8
<p><b>MANAGING PROJECTS</b></p> <ul style="list-style-type: none"> <li>• What are the objectives of project management and why is it so essential in developing information systems?</li> <li>• What methods can be used for selecting and evaluating information systems projects and aligning them with the firm's business goals?</li> </ul> <p><b>9</b></p> <ul style="list-style-type: none"> <li>• How can firms assess the business value of information systems projects?</li> <li>• What are the principal risk factors in information systems projects?</li> <li>• What strategies are useful for managing project risk and system implementation?</li> </ul>	<b>CLO3</b>	2	1				3	6

10	<b>ETHICAL AND SOCIAL ISSUES IN INFORMATION SYSTEMS</b> • What ethical, social, and political issues are raised by information systems? • What specific principles for conduct can be used to guide ethical decisions? • Why do contemporary information systems technology and the Internet pose challenges to the protection of individual privacy and intellectual property? • How have information systems affected everyday life?	<b>CLO3</b>	2	1			2	1	6
11									0
12									0
13									0
<b>Total SLT</b>									<b>76</b>
<b>SUMMATIVE ASSESSMENT</b>									
<b>1. Continuous Assessment</b>			<b>Percentage %</b>					<b>Total SLT</b>	
Quiz			15%					6	
Assignment			15%					11	
Midterm Test			20%					7	
<b>Total SLT for Continuous Assessment</b>								<b>24</b>	
<b>2. Final Assessment</b>			<b>Percentage %</b>					<b>Total SLT</b>	
								<b>F2F</b>	<b>ILT</b>
Final Exam			50%					2	18
<b>Total SLT for Final Assessment (F2F + NF2F)</b>								<b>20</b>	
<b>Grand Total</b>			<b>100%</b>					<b>120</b>	
<b>**Indicate the CLO based on the CLO's numbering in Item 12.</b>									
<b>*L= Lecture, *T= Tutorial, *P= Practical, *O= Others, F2F*= Face to Face, NF2F*= Non Face to Face</b>									
<b>Identify Special Requirement to Deliver the Course (e.g., software, nursery, computer lab, simulation room):</b>									
<b>Main References:</b>									
Kenneth C. Laudon & Jane P. Laudon. (2015). <i>Management Information Systems: Managing the Digital Firm</i> . Pearson Higher Ed. (14th Edition)									
<b>Additional References:</b>									
David M. Kroenke & Randall J. Boyle. (2016). <i>Using MIS</i> . Pearson Higher Ed. (9th Edition)									
Joe Valacich & Christoph Schneider. (2015). <i>Information Systems Today: Managing in the Digital World</i> . Pearson Higher Ed. (7th Edition)									
Ralph M. Stair & George W. Reynolds. (2015). <i>Principles of Information Systems</i> . Course Technology. (12th Edition)									

**Note:**

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