

Subject Description Form

Subject Code	COMP5536
Subject Title	Knowledge Management and Applications
Credit Value	3
Level	5
Pre-requisite/ Exclusion	Nil
Objectives	<p>The objectives of this subject are to:</p> <ol style="list-style-type: none"> 1. Study system architectures, tools and techniques and their use in capturing, storing, locating, evaluating, disseminating; 2. Enable students to apply these principles and techniques through the use of rapidly evolving IT technologies is studied; 3. Support traditional Knowledge Management tasks; 4. Investigate various issues in the application of knowledge management to organizational learning and decision-making.
Intended Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> a) Identify and analyze the applications of knowledge management (KM); b) Apply KM models and technologies to business situations. c) Create a KM system for an organization; d) Create a KM plan to leverage opportunities to create, capture, represent and share knowledge within an organization; e) Perform critical and objective study with a goal leading to productive research.
Subject Synopsis/ Indicative Syllabus	<ul style="list-style-type: none"> • Introduction to KM: Defining knowledge management; Objectives of knowledge management; Knowledge management and the e-business space; Knowledge management challenges; Critical success factors; Knowledge and competitive advantages. • Organizational Modeling and Planning: Knowledge management in organizations; Types of organizational knowledge; E-learning characteristics; Strategic importance and effectiveness of e-learning; modeling and planning. • Knowledge Modeling Creation: Introducing the knowledge management framework; Knowledge representation, knowledge creation, transfer, storage, retrieval, decision making and supports, knowledge based systems. • Semantic Web and Ontology Systems: Knowledge units; Semantic relations; Ontology matching and mapping; Concept learning. • Process Modeling and Workflow: Requirements of knowledge workers; Technology aspect of knowledge management; Introducing the intranet; Differentiating intranet, internet and extranet; Intranet business issues; Components, applications and benefits of an intranet. Challenges and

	<p>opportunities of a corporate intranet; Introducing portals; Benefits of portals; Enterprise knowledge portals; Groupware workflow and document management.</p> <ul style="list-style-type: none"> • KM Evaluation Methods: Importance and essentials of knowledge management strategy; Best practices; Guidelines for knowledge strategy formulation; Applying concepts to existing knowledge management business models and cases; The business development process; Phases of knowledge management project; Knowledge management implementation. • KM Applications and Case Studies: Applying concepts to existing knowledge management business models and cases. 																																	
Teaching/Learning Methodology	Class activities including - lecture, tutorial, lab, workshop seminar where applicable																																	
Assessment Methods in Alignment with Intended Learning Outcomes	<table border="1"> <thead> <tr> <th rowspan="2">Specific Assessment Methods/Tasks</th> <th rowspan="2">% weighting</th> <th colspan="5">Intended subject learning outcomes to be assessed</th> </tr> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> <th>e</th> </tr> </thead> <tbody> <tr> <td>Assignments, Tests & Projects</td> <td>55</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Final Examination</td> <td>45</td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total</td> <td>100</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Specific Assessment Methods/Tasks	% weighting	Intended subject learning outcomes to be assessed					a	b	c	d	e	Assignments, Tests & Projects	55	✓	✓	✓	✓	✓	Final Examination	45	✓	✓				Total	100					
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Reading list and references	<p>(1) M. Lisa Miller, 2009, MIS Cases: Decision Making with Application Software, 4th Ed, Prentice Hall.</p> <p>(2) Hawryszkiewicz, I., 2009, Knowledge Management : organizing knowledge based enterprises, 1st Ed, Palgrave Macmillan.</p> <p>(3) Keri E. Pearlson and Carol S. Saunders, 2012, Managing & Using Information Systems: A Strategic Approach, 5th Ed, Wiley.</p> <p>(4) Fred R. David, 2010, Strategic Management: Concepts; 13th Ed, Pearson.</p>																																	