

Subject Code	MM546
Subject Title	Information Technology for Operations Management
Credit Value	3
Level	5
Normal Duration	1-semester
Pre-requisite/ Co-requisite/ Exclusion	None
Role and Purposes	The central goal of this course is to develop an integrative knowledge of the information technologies for operation management. It focuses on the information technologies that are applied by organizations to support such operation processes as production, distribution, tracking, monitoring, warehousing, cataloguing and so forth. This course looks into the IT-enabled operation and the influence of information technologies in shaping modern organizational operation.
Subject Learning Outcomes	Upon completion of the subject, students will be able to: <ul style="list-style-type: none"> a. understand currently available technologies for organizational operations; b. review operational information systems and how such systems improve the operation management; c. understand the information needs of an organization; d. participate effectively in the information technology planning process within a corporate strategic plan.
Subject Synopsis/ Indicative Syllabus	<p>Information technology – foundation of information systems Computer hardware; information system software; managing data resources; communications and networks.</p> <p>Information systems in organizations Challenges and opportunities; strategic role of information systems; types of information systems: management information systems, decision support systems, expert systems.</p> <p>Approaches to the development of an information system Systems development cycles; systems development tools; information technology support; systems implementation choices; role of end-user computing.</p> <p>Operations management support systems Production and distribution process, data acquisition, tracking and monitoring, electronic warehouse, electronic catalogues and directories for web sourcing.</p> <p>Management of information resources Models of information resource management; system effectiveness evaluation; vendor evaluation and supplier policies; outsourcing; quality assurance.</p>

Teaching/Learning Methodology	Keynote lectures will be used to introduce techniques and conceptual models. Case studies and readings will form the basis of class seminars in which the applicability of various techniques, models and methodologies will be discussed. Some sessions will be devoted to more in-depth studies of specific problems by small groups, which will form the basis for further class discussion.																																																			
Assessment Methods in Alignment with Intended Learning Outcomes	<table border="1" data-bbox="451 359 1479 968"> <thead> <tr> <th data-bbox="451 359 824 527" rowspan="2">Specific assessment methods/tasks</th> <th data-bbox="824 359 992 527" rowspan="2">% weighting</th> <th colspan="4" data-bbox="992 359 1479 457">Intended subject learning outcomes to be assessed (Please tick as appropriate)</th> </tr> <tr> <th data-bbox="992 457 1105 527">a.</th> <th data-bbox="1105 457 1230 527">b.</th> <th data-bbox="1230 457 1349 527">c.</th> <th data-bbox="1349 457 1479 527">d.</th> </tr> </thead> <tbody> <tr> <td data-bbox="451 527 824 594">Continuous Assessment*</td> <td data-bbox="824 527 992 594">50%</td> <td data-bbox="992 527 1105 594"></td> <td data-bbox="1105 527 1230 594"></td> <td data-bbox="1230 527 1349 594"></td> <td data-bbox="1349 527 1479 594"></td> </tr> <tr> <td data-bbox="451 594 824 695">1. Attendance and class participation</td> <td data-bbox="824 594 992 695">15%</td> <td data-bbox="992 594 1105 695">✓</td> <td data-bbox="1105 594 1230 695">✓</td> <td data-bbox="1230 594 1349 695">✓</td> <td data-bbox="1349 594 1479 695">✓</td> </tr> <tr> <td data-bbox="451 695 824 762">2. Individual assignment</td> <td data-bbox="824 695 992 762">15%</td> <td data-bbox="992 695 1105 762">✓</td> <td data-bbox="1105 695 1230 762">✓</td> <td data-bbox="1230 695 1349 762">✓</td> <td data-bbox="1349 695 1479 762">✓</td> </tr> <tr> <td data-bbox="451 762 824 829">3. Group assignment</td> <td data-bbox="824 762 992 829">20%</td> <td data-bbox="992 762 1105 829">✓</td> <td data-bbox="1105 762 1230 829">✓</td> <td data-bbox="1230 762 1349 829">✓</td> <td data-bbox="1349 762 1479 829">✓</td> </tr> <tr> <td data-bbox="451 829 824 896">Examination</td> <td data-bbox="824 829 992 896">50%</td> <td data-bbox="992 829 1105 896">✓</td> <td data-bbox="1105 829 1230 896">✓</td> <td data-bbox="1230 829 1349 896">✓</td> <td data-bbox="1349 829 1479 896">✓</td> </tr> <tr> <td data-bbox="451 896 824 968">Total</td> <td data-bbox="824 896 992 968">100 %</td> <td colspan="4" data-bbox="992 896 1479 968"></td> </tr> </tbody> </table> <p data-bbox="435 982 1502 1045">*Weighting of assessment methods/tasks in continuous assessment may be different, subject to each subject lecturer.</p> <p data-bbox="435 1077 1502 1140">To pass this subject, students are required to obtain Grade D or above in both the Continuous Assessment and Examination components.</p> <p data-bbox="435 1171 1502 1276">Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes: the various methods are designed to ensure that all students taking this subject to have a balanced learning experience.</p> <p data-bbox="435 1287 1502 1350">Feedback is given to students immediately following the presentations and all students are invited to join this discussion.</p>						Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)				a.	b.	c.	d.	Continuous Assessment*	50%					1. Attendance and class participation	15%	✓	✓	✓	✓	2. Individual assignment	15%	✓	✓	✓	✓	3. Group assignment	20%	✓	✓	✓	✓	Examination	50%	✓	✓	✓	✓	Total	100 %				
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Student Study Effort Expected	Class contact:																																																			
	▪ Lectures				42 Hrs.																																															
	Other student study effort:																																																			
	▪ Preparation for lectures				42 Hrs.																																															
	▪ Preparation for assignment / group project and presentation / examination				84 Hrs.																																															
	Total student study effort					168 Hrs.																																														
Reading List and References	<u>Textbook</u> R.M. Stair and G.W. Reynolds, Principles of Information Systems, ITP, 9 th ed. 2009.																																																			

Reference Books

Laudon, Kenneth C., Laudon, Jane P. And Brabston M. E. (2012), Management Information Systems: Managing the digital firm, 6th Ed., Pearson Education.

Oz, E., *Management Information Systems*, Course Technology; 5th ed., 2008.

John Battelle, *The Search: How Google and Its Rivals Rewrote the Rules of Business and Transformed Our Culture*, Portfolio Hardcover (September 8, 2005), ISBN: 1591840880.

Roger G. Schroeder, *Operations Management Contemporary Concepts and Cases*, Irwin McGraw Hill, 2010.

Journals

Information and Management

International Journal of Information Management

International Journal of Project Management

Journal of Information Technology

Journal of Systems Management

MIS Quarterly