

Bachelor of Information Technology (Hons)

1.	Course Title	Decision Support System		
2.	Course Code	CICT3543		
3.	Status	Elective Major		
4.	Credit Hour	3 (2+1) 2 for lecture (2 hours per week x 14 weeks) 1 for lab (2 hours per week x 14 weeks)		
5.	Semester/Year	-		
6.	Prerequisites	None		
7.	Teaching method:	Distance Learning (Electronic)		
8.	Evaluation	Assessment and Marking Percentage: Participation 5% Quizzes 15% Project 15% Mid Sem Exam 15% Final Examination 50%		
9.	Lecturer			
10.	Objective of the Subject	The objective of the course for students to understand how to solve real world problems -- making effective decisions, building DSS incorporated models, gaining experience of Groupware applications such as Lotus Notes/Domino.		
11.	Learning Outcomes	After completing this subject, it is expected that you will able to: • identify various types of decision support system (DSS) tools such as group support system, enterprise information systems and etc. • make informed choices as to which DSS are appropriate to particular real problem and report on the outcome of such applications in a practical manner. • use of DSS tools for assisting in decision-making.		
12.	Synopsis	The course covers the decision support paradigm, the nature of decision making, decisions in organisations and relationships to other fields of study.		
13.	Topics	Details	Lecture (Hrs)	Lab (Hrs)
	Topic 1	The Decision Support Paradigm History, Development of DSS, Basic Concepts, DSS Paradigm and Architecture, Components of DSS, Classes of DSS, Decision Support Tools	4	4
	Topic 2	The Nature of Decision Making Decision Style, Comparison of Statistical Decision Making Methods, Cognitive Process, Brainstorming, Bounded Rationality, Adaptive and Structured DSS Design, Effectiveness and Efficiency Criteria	8	6
	Topic 3	Decisions in Organisations Groups [Collaborative and Competitive, Co-located and Non-collocated Groups], Organisational Learning, Group Decision Support Systems, DSS Software Identification, Groupware, Lotus Notes / Domino	8	4
	Topic 4	Modelling Optimisation Models, Satisfying Models, Visualisation	6	4
		Total contact hours	28	21
		Equivalent lecture hours	28	14
		Total lecture hours	42	
		Credit hours	3	
14.	Main reference:	E. Turban, J.E.Aronson, T-P Liang and R. Sharda, “Decision Support and Business Intelligence Systems”, 8 th Edition, Pearson International Edition, 2007		
15.	Additional References:	1. G. M Maracas, “Decision Support Systems in the 21st Century”, International Edition, New Jersey: Prentice-Hall, 1999. 2. Efraim Turban, Jay E. Aronson, Ting-Peng Liang, and Ramesh Sharda, Decision Support and Business Intelligence Systems (8th Edition) (2006)		

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	Other Materials:	All other materials will be available to students online.
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