



Information Systems Department

Course Syllabus

IS350 - Decision Support Systems

Catalog Description:	A decision support system (DSS) is a computer system that encompasses mathematical models, informational databases and a user interface to help managers make better decisions. This course is intended to develop an appreciation of the nature of managerial business decision making as well as a working knowledge of Decision Support Systems (DSS) for facilitating the process of semi-structured decision making. Issues associated with the development of these systems are introduced, along with some of the underlying mathematical modelling techniques that provide DSS with a problem-solving capability.
Credit Hours:	3 Credit hours: 3 Lectures per week 0 Labs. per week 0 Recitation per week
Prerequisites:	STAT 111- Introduction to Probability and Statistics
Course Learning Outcomes:	 Define the concepts of decision making as a problem solving approach Outline decision support models, methods, and technologies Design and model decision support systems for specific applications Apply operation research tools and algorithm to optimize and solve problems Develop a decision support system for a specific use Work effectively in groups and exercise leadership when appropriate Communicate effectively in oral and written form
Major Topics:	 Introduction to DSS Modelling & Analysis Components of DSS Classifications of DSS (includes web-based DSS) Linear Programming 1 Software application Simplex Method and Sensitivity Analysis Linear Programming Applications + Tutorial using software The Transportation model Network Models The Assignment model and Transshipment model Project Discussions
Text Books:	 Business Intelligence and Analytics: Systems for Decision Support (10th Edition). ISBN-13: 978-0133050905, ISBN-10: 0133050904 Operations Research: An Introduction, 8th edition, by Hamdy A. Taha, published by Prentice-Hall, 2007, ISBN:978-8120330436.





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Grading:	 The grading scale for this course is: 95 - 100 A+ Passing 90 - 94 A Passing 85 - 89 B+ Passing 80 - 84 B Passing 75 - 79 C+ Passing 70 - 74 C Passing 65 - 69 D+ Passing 60 - 64 D Passing 90 - 50 E E Evilia e
	 0 - 59 F Failing © Final grades will be determined based on the following components: . 60% Semester Work . 40% Final Exam © Students may not do any additional work for extra credit nor resubmit any graded activity to raise a final grade.
Attendance Policy:	 I a student fails to achieve this portion, he/she shall not be allowed to appear in the final exam and shall be awarded "DN" grade and repeat the course.
Cheating and Plagiarism Policy:	The instructor will use several manual and automated means to detect cheating and/or plagiarism in any work submitted by students for this course.





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When a student is suspected of cheating or plagiarism, the instructor raises the issue to the disciplinary committee.

Communications: Registered students will be given access to a section of the Learning Management System (LMS) for this course. LMS will used as the primary mechanism to disseminate course information, including announcements, lecture slides, assignments, and grades.

Communication with the instructor on issues relating to the individual student should be conducted using CIS email, via telephone, or in person.