MS8955: CONTEMPORARY RESEARCH TOPICS IN DECISION ANALYTICS AND OPERATIONS

Effective Term
Summer Term 2026

Part I Course Overview

Course Title
Contemporary Research Topics in Decision Analytics and Operations

Subject Code
MS - Decision Analytics and Operations
Course Number
8955

Academic Unit
Decision Analytics and Operations (DAOS)

College/School
College of Business (CB)

Course Duration
One Semester

Credit Units
3

Level
R8 - Research Degree

Medium of Instruction
English

Medium of Assessment
English

Prerequisites
Nil

Precursors
Nil

Equivalent Courses
Nil

Exclusive Courses
Nil

Part II Course Details

Abstract

The course provides an in-depth coverage of some contemporary research topics in a particular area in the field of Decision Analytics and Operations for PhD students. The objective to help PhD students understand the literature, methodology and research issues in the area and to facilitate their research. The topics are determined by the instructor who teaches the course.

Course Intended Learning Outcomes (CILOs)

	CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Understand the literature in the related research area and identify research gaps.		x	x	x
2	Master the basic research methodology in the related research area.		x	x	x
3	Formulate and analyze research problems in the related research area.		x	x	x

A1: Attitude
Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability
Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

A3: Accomplishments
Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

Learning and Teaching Activities (LTAs)

	LTAs	Brief Description	CILO No.	Hours/week (if applicable)
1	Lecture	Students will discuss various research issues and related methodology covered by Lecturer.	1, 2, 3	
2	Reading and discussion	Students will be required to read related research papers and participate in discussions in the class.	1, 2, 3	

Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks ("-" for nil entry)	Allow Use of GenAI?
1	Assignments (solve problems, reading, report, etc.)	1, 2, 3	100	-	Yes

Continuous Assessment (%)

100

Examination (%)

0

Minimum Continuous Assessment Passing Requirement (%)

0

Minimum Examination Passing Requirement (%)

0

Assessment Rubrics (AR)

Assessment Task

Assignments (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

Excellent

(A+, A, A-) Strong evidence of knowledge of subject matter and capability to formulate, analyze and solve problems in the related research area.

Good

(B+, B, B-) Evidence of knowledge of subject matter and capability to formulate, analyze and solve problems in the related research area.

Fair

(C+, C, C-) Some evidence of knowledge of subject matter and capability to formulate, analyze and solve problems in the related research area.

Marginal

(D) Some evidence of knowledge of subject matter and capability to formulate, analyze and solve problems in the related research area.

Failure

(F) Little evidence of knowledge of subject matter and capability to formulate, analyze and solve problems in the related research area.

Assessment Task

Assignments (for students admitted from Semester A 2022/23 to Summer Term 2024)

Excellent

(A+, A, A-) Strong evidence of knowledge of subject matter and capability to formulate, analyze and solve problems in the related research area.

Good

(B+, B) Evidence of knowledge of subject matter and capability to formulate, analyze and solve problems in the related research area.

Marginal

(B-, C+, C) Some evidence of knowledge of subject matter and capability to formulate, analyze and solve problems in the related research area.

Failure

(F) Little evidence of knowledge of subject matter and capability to formulate, analyze and solve problems in the related research area.

Part III Other Information

Keyword Syllabus

This is a course that teaches PhD students how to conduct research in a particular area in the field of Decision Analytics and Operations. It will cover the literature, the research methodology, the techniques, the current research trends and issues in the area. After taking this course, the students will be able to conduct the research in the area.

Reading List

Compulsory Readings

	Title
1	Nil

Additional Readings

	Title
1	Nil