



**Course Descriptor**  
**INTE460 Artificial Intelligence**

<b>Proposed Academic Year</b>	2021/ 2022	<b>Last Reviewed Academic Year</b>	2020/2021
<b>Course Code</b>	INTE460	<b>Course Title</b>	Artificial Intelligence
<b>Credit hours</b>	3	<b>Level of study</b>	Undergraduate
<b>College / Centre</b>	COBA	<b>Department</b>	MIFS
<b>Co-requisites</b>	None	<b>Pre-requisites</b>	

### 1. COURSE OUTLINE

[Artificial intelligence represents the new direction in information technology fields that recently has a high impact on both the society and the world economy. The course topics explore the various AI's basics and methodology. It introduces issues, including search techniques, machine learning techniques, and deep learning.

### 2. AIMS

This course aims to introduce the students with the fundamentals of AI including the various AI techniques, and concepts.

### 3. LEARNING OUTCOMES, TEACHING, LEARNING and ASSESSMENT METHODS

<b>Learning Outcomes (Definitive)</b>	<b>Teaching and Learning methods (Indicative)</b>	<b>Assessment (Indicative)</b>	
Upon successful completion of this course, students will be able to:			
<b>1</b> Demonstrate an appropriate understanding of Artificial intelligence fundamentals	e.g., lectures, online videos tutorials and seminars, online group discussions using LMS, independent readings, individual or group work, presentation.	e.g., tests, assignments, individual or group project, participation	Knowledge of a discipline. Commitment to national development and Omani ethical values. Innovative spirit. Global insight. Adaptability to changing environments.
<b>2</b> Explain the power and capabilities of AI in presenting creative technologies by providing examples from current AI researches (e.g., driverless cars)	e.g., lectures, online videos tutorials and seminars, online group discussions using LMS, independent readings, individual or group work, presentation.	e.g., tests, assignments, individual or group project, participation	Knowledge of a discipline. Commitment to national development and Omani ethical values. Innovative spirit. Global insight. Adaptability to changing environments.
<b>3</b> Demonstrate a proper understanding	e.g., lectures, online videos tutorials and seminars, online group	e.g., tests, assignments,	Knowledge of a discipline.



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of how to use AI technologies.	discussions using LMS, independent readings, individual or group work, presentation.	individual or group project, participation	Commitment to national development and Omani ethical values. Innovative spirit. Global insight. Adaptability to changing environments.
4 Ability to apply AI techniques in problem-solving	e.g., lectures, online videos tutorials and seminars, online group discussions using LMS, independent readings, individual or group work, presentation.	e.g., tests, assignments, individual or group project, participation	Knowledge of a discipline. Commitment to national development and Omani ethical values. Innovative spirit. Global insight. Adaptability to changing environments.

#### 4. ASSESSMENT WEIGHTING

Assessment	Percentage of final mark (%)
Mid-term Exam	30
Final Exam	30
Assignments	30
Participation	10
<b>TOTAL</b>	<b>100%</b>

#### 5. ACHIEVING A PASS

Students will achieve 3 credit hours for this course by achieving a minimum overall score of 50%  
***NB \*Ensure that ALL learning outcomes are taken into account***

#### 6. COURSE CONTENT (Indicative)

LECTURE TOPIC	TIME (HOURS)
Introduction to Artificial Intelligence	2
AI Basics	4
Fields of AI applications	4
AI with search techniques and games	
• Heuristics	4
• Pathfinding with A* search	4
• Game AI with Minmax algorithm	4
Regression	4



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