

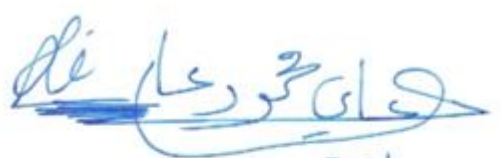


MODULE DESCRIPTION FORM




Module Information			
Module Title	Introduction to Artificial Intelligence (AI)		Module Delivery
Module Type	C		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar
Module Code	AI1101		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	1	Semester of Delivery	
Administering Department	Artificial Intelligence	College	Computer Science and Information Technology
Module Leader	Ali Mahmoud Ali	e-mail	ali.mahmoud@uowa.edu.iq
Module Leader's Acad. Title	assistant lecturer	Module Leader's Qualification	M.Sc.
Module Tutor	Ali Mahmoud Ali	e-mail	ali.mahmoud@uowa.edu.iq
Peer Reviewer Name	Dr. Mahmood Jasim	e-mail	mahmood.jasim@uowa.edu.iq
Scientific Committee Approval Date	01/11/2025	Version Number	1.0

Relation with other Modules			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	


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 مقر قسم الذكاء الاصطناعي
 ٢٠٢٦ - ٢٠٢٥

Department Head Approval




 ا.م.د. هادي محمد علي لافانسي
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Dean of the College Approval

Module Aims, Learning Outcomes and Indicative Contents

Module Objectives	The aim of this module is to provide an introduction to Artificial Intelligence (AI) and its various applications. Students will gain a comprehensive understanding of the fundamental concepts, techniques, and algorithms used in AI, as well as the ethical considerations associated with its use. The module will also explore the impact of AI on society, economy, and various industries.
Module Learning Outcomes	By the end of this module, students are expected to: <ol style="list-style-type: none"> 1. Understand the basic concepts and principles of Artificial Intelligence. 2. Gain knowledge of various AI techniques and algorithms. 3. Develop an understanding of the ethical implications of AI. 4. Analyze the impact of AI on different aspects of society and industry. 5. Apply AI techniques to solve real-world problems.
Indicative Contents	<p>Introduction to Artificial Intelligence Definition, brief history, and scope of AI. Different types of AI systems.</p> <p>Problem Solving and Search Algorithms Problem formulation and representation. Uninformed search algorithms (e.g., breadth-first search, depth-first)</p> <p>Machine Learning Ethical and Social Implications</p>

Learning and Teaching Strategies

Strategies	<p>Conceptual Understanding:</p> <p>Hands-on Practice</p> <p>Code Review and Feedback</p> <p>Problem-Solving Exercises</p>
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Student Workload (SWL)			
Structured SWL (h/sem)	48	Structured SWL (h/w)	3
Unstructured SWL (h/sem)	102	Unstructured SWL (h/w)	6.8
Total SWL (h/sem)	150		

Module Evaluation					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	6	10% (10)	2,3,4,6,8,11	LO #1, LO #2
	Assignments	5	10% (10)	3,5,7,8,9	LO #2, LO #3, LO #4
	Seminar.	1	10% (10)	12	All Learning Outcomes (LO #1 – LO #5)
	Report	1	10% (10)	13	LO #4, LO #5
Summative assessment	Midterm Exam	2hr	10% (10)	7	All Learning Outcomes (LO #1 – LO #5)
	Final Exam	3hr	50% (50)	16	All Learning Outcomes (LO #1 – LO #5)
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Historical overview of AI, AI Introduction
Week 2	Programing and AI important
Week 3	AI Types
Week 4	Problem Solving: Introduction to problem-solving techniques and algorithms
Week 5	AI Applications Overview: A survey of AI applications in various domains such as healthcare, finance, and gaming.
Week 6	search algorithms like depth-first search and breadth-first search.
Week 7	Mid-term Exam
Week 8	Machine Learning Basics: A brief introduction to the fundamentals of machine learning
Week 9	Supervised learning
Week 10	unsupervised learning
Week 11	Expert systems
Week 12	Knowledge base
Week 13	Rule based approaches
Week 14	AI Ethics Awareness: An introduction to ethical considerations in AI, including fairness, bias, and responsible AI development.
Week 15	Preparatory week before the final Exam

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Book Title: "Artificial Intelligence: A Guide to Intelligent Systems" Author: Michael Negnevitsky	No
Recommended Texts	Russell, S., & Norvig, P. "Artificial Intelligence: A Modern Approach" (4th ed.). Pearson.	No
Websites	https://ai.stanford.edu/	

Grading Scheme				
Group	Grade	Mark	Marks %	Definition
Success Group (50 - 100)	A - Excellent	Excellent	90 - 100	Outstanding Performance
	B - Very Good	Very Good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Fair / Average	60 - 69	Fair but with major shortcomings
	E - Sufficient	Pass / Acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	Fail (Pending)	(45-49)	More work required but credit awarded
	F – Fail	Fail	(0-44)	Considerable amount of work required
Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				