Course Description

This course description provides a concise summary of the main course features and the learning outcomes expected of the student, demonstrating whether the student has made the most of the available learning opportunities. It must be

1. Educational Institution	university Shatt al-Arab
2. Department/Scientific Center	to divide science computer
3. Course Name/Code	Artificial Intelligence
4. Available Attendance Formats	weekly/theoretical and practical
5. Semester/Academic Year	the chapter the first/2025-2024
6. Number of Study Hours (Total)	60 hours
7. Date this Description Was Prepared	August 5, 2025

8. Course objectives
1. Introducing the student to the basic concepts of artificial intelligence.

2. Enabling the student to understand the representation of knowledge and its types.

3. Defining the concept of clarity and the rules of deduction and induction.

4. Study of problem spaces and research methods used in artificial intelligence.

5. Prolog .logic programming language to implement artificial intelligence concepts

9 .Outputs The decision and methods education and learning and evaluation .

-AObjectives cognitive
1. knowledge The student For some concepts Basic around Intelligence artificial
2. Recognition on acting knowledge And variety Its representations
3. Recognition on concept Clarity And some rules Conclusion And induction
4. Recognition on Question spaces and research methods used in Intelligence artificial
5. Recognition How to use the Prolock programming language

Methods education and learning

B- Evaluation methods
. Participate in the classroom   . presentation Activities   - Tests Quarterly And final and activities

C-Objectives emotional and the value C-1 Development capacity The student For work on performance Duties And deliver it in The appointment The determinant C-2 Logical thinking To find solutions to problems Intelligence artificial and methods Programming By use language Logic C -3 Developing the student's ability to dialogue and discuss
Methods education and learning
- administration Lecture on about feel Important the time   - Assignment The student Some Activities and duties Collective   - Allocate a percentage from degree For activities Collective
Methods Evaluation
- Participation The actor in hall The lesson and the laboratory practical guide commitment The student And bear it Responsibility   - Commitment On time The Renewer in evaluation Duties and research   - Express Tests Quarterly And the final on Commitment And collection Cognitive And the Mahari

D- Skills Public and rehabilitation Movable (Skills Other Related With possibility Employment and development Personal) .
  1. Development capacity The student on Dealing with means Technology
  2. development capacity The student on Dealing with Internet
  3. development capacity The student on Dealing with means Multiple
  4. Developing the student's ability to dialogue and discuss

.10 Structure The decision					
week	watches	Required learning outcomes	Topic/Unit name	road education	road Evaluantio
first	4	Introduction to Artificial Intelligence And general concepts about Programming	introduction in Intelligence Artificial + Entrance to Programming Structured	theoretical and my work	General questions and discussion
second	4	Introduction to Artificial Intelligence And general	Features, objectives, Applications and issues AI + Definition The variable and	theoretical and my work	General questions

		concepts about Programming	the types Statements and variables in language		and discussion
third	4	acting knowledge and study Transactions in Prolog	Knowledge base concept and methods Her acting + Logical and mathematical operations	theoretical and my work	General questions and discussion
Fourth	4	acting knowledge and application logical relations	study Types Representation of knowledge in AI + Examples of relationship programming logical	theoretical and my work	General questions, discussion or exam that I
Fifth	4	study Proof Theories and application Relationships Sports	study Proof Theories in AI + Examples on programming Relationships Sports	theoretical and my work	General questions and discussion
Sixth	4	study Proof Theories and application Relationships Sports	application Proof Theories on A set of examples + application language Prolog for solving mathematical problems and series	theoretical and my work	General questions Discussion and exam that I
Seventh	4	Clarity And some rules induction	study Methods Conclusion Mathematical induction + application language Prolog for solving mathematical problems and series	theoretical and my work	General questions and discussion and exam monthly
eighth	4	Question spaces and methods Search and the structure The year For lists Prolog	Blind search and search Exploratory + Entrance to Lists	theoretical and my work	General questions and discussion
Ninth	4	blind search and programming Lists	Blind search and search Exploratory + Entrance to Lists	theoretical and my work	General questions and discussion
tenth	4	Search Excavation and deletion and addition operations in lists	research rise the hill, Search The best First + Operations Programming Deletion And the addition	theoretical and my work	General questions and discussion
eleventh	4	Search Excavation and various programs in the lists	research Branching out A* Selection and Research Programs Different using Lists	theoretical and my work	General questions Discussion and exam that I

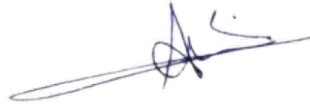|						
twelfth	4	Artificial intelligence issues and the concept of belonging.	solution Issues Using AI methods Programming the relationship of belonging member	theoretical and my work	General questions and discussion
thirteenth	4	Issues Intelligence Artificial intelligence and applications Belonging relationship	solution Issues Using AI methods Programs Different using member	theoretical and my work	General questions Discussion and exam that I
fourteenth	4	Systems Expert and the concept of list merging relationship	Concepts and components Basic, building Knowledge Hall and Deduction Method + programming relationship to merge append Lists	theoretical and my work	General questions and discussion
fifteenth	4	Systems Expert and Applications append	Determinants in expert systems and some of its applications + Programs Different using append	theoretical and my work	General questions and monthly exam

11. Structure Infrastructure	
1. Required Books	1. Stuart Russel, Peter Norvig , "Artificial Intelligence: A Modern Approach", 3th edition, Prentice-Hall, 2009.
2. Main References (Sources)	1. E. Czarniak, D. McDermott, "Introduction to Artificial Intelligence," 4th ed., Addison-Wesley, 2000. 2. Ivan Bratko, "Programming Prolog for Artificial Intelligence," 4th ed., Pearson Education, 2011. George F. Luger, "Artificial Intelligence: Frameworks and Strategies for Solving Complex Problems," 6th ed., Addison-Wesley, 2008.
3. Recommended Books and References (Scientific Journals, Reports, etc.)	https://www.journals.elsevier.com/artificial-intelligence
4. Electronic References, Websites	https://download-internet-pdf-ebooks.com/88-1-library-books

.12 Plan development The decision Academic
•   visit Laboratories Educational.   • visit Laboratories educational Private With devices Smart   •   to update Sources References Private According to the decision In a way regular according to For developments Modern in Specialization

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