



Ministry Of Higher Education and Scientific Research
AL-Mustansiriyah University/College of Education/Dep. of Computer Science
Course plan (الخطة الدراسية للمساق)



Course No.: 50901404

Course Name: Intelligent Application

Academic Year: 2018-2019

Time Division: 4hr. Theoretical 2hr. Practical. 2hr

Course Description(4 credit hours)

The definition and introduction of Intelligent Application.

Course Intended Outcomes:

Upon completion of the course, the student should be able to:

Define Intelligent Application in computer and he can process the Intelligent Application as a tool to improve an Intelligent and soft computing algorithms that generated by a computer.

Course Outline:

Week	Description depends on the Timing table (Theoretical & Practical)
1	• Introduction to Expert system
2	• Typical Architecture of Expert system and application it.
3	• Introduction Artificial neural network (ANN)
4	• Theory of Neural Networks (NN)
5	• type of learning
6	• Typical Architecture of NN
7	• Basic Activation Functions
8	• The bias
9	• Exam
10	• Learning Algorithms
11	• Hebbian Learning Rule
12	• widrow-Hoff Learning Rule
13	• exam
14	• Genetic Algorithm (GA)
15	• Exam
	The second semester
16	• Genetic Programming (GP)
17	• Evolution strategy
18	• Genetic strategy
19	• exam
20	• introduction of fuzzy logic
21	• fuzzy logic steps
22	• fuzzy sets
23	• fuzzy logic application
24	• exam
25	يبدأ التطبيق في المدارس

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26	-
27	-
28	-
29	-
30	-
31	FINAL EXAM Durations

Textbooks:

1. Simon Haykin, 2008, "Neural Networks and learning machines" (3th edition), pearson.
2. McGraw Hill, Tom Mitchell, 1997, "Machine Learning".
3. Laurene Fausett, Fundamentals of Neural Networks: Architecture, Algorithms, and Application".

Suggested references:

1. Internet

Marking:

First semester				Second semester				Final exam
1st exam	2 nd exam	practical	activity	1 st exam	2 nd exam	practical	activity	10/practical
5	5	5	3	5	5	5	3	50/Theoretical

Assignments and/or Projects:

Assignment/Project	Description	Due Date	Marking
homework	There are 2 homework in the 2 semesters	During the course	4

Instructor information:

Instructor's Name:

- Instructor's Name: Iman Hussein Raheem

NOTES:

- Office Hours: Other office hours are available by appointment.
- The content of this syllabus not be changed during the current semester.

Lecturer Signature

Chairman Signature