The University of Jordan School of Engineering Department of Mechatronics Engineering

1st Semester - 2019/2020



Course Learning Outcomes and Relation to ABET Student Outcomes:

Upon successful completion of this course, a student should:

1.	Know how to design an artificial intelligence-based controller.	[-]
2.	Know the different types of artificial intelligence tools.	[-]
3.	Improve presentation skills, report writing skills, teamwork skills and problem-	
	solving skills due to the work on the projects in this course.	[7]
4.	Understand the principle of operation of artificial neural networks, fuzzy logic	
	and genetic algorithms.	[-]
5.	Know how to use Matlab and Simulink to develop and conduct appropriate	
	experimentation, analyze, and interpret data related to fuzzy logic, artificial	[-]
	neural networks and genetic algorithms.	

Course Topics: Hrs Introduction to Artificial Intelligence (AI) Neural Networks Fuzzy Logic Genetic Algorithms Applications in modeling and control

Ground Rules: Attendance: •

Students are expected to attend EVERY CLASS SESSION and they are responsible for all material, announcements, schedule changes, etc., discussed in class. The university policy regarding the attendance will be strictly adhered to.

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Make up Examinations

There will be no make up exams for any exam that will be taken during the course. Exceptions to this rule is restricted only to the following cases:

- 1. Death of only first order relatives (father, mother, sister, or brother).
- 2. Hospital entry (in-patient) during thr time of the examination.

Any other cases will be given the zero mark in the corresponding exam.

Special Notes

- 1. Seating plan will be as given in the attendance sheet.
- 2. Students creativity is welcomed and will receive additional marks

Assessments: Exams, Quizzes, Projects, and Assignments.

Grading policy:

Projects		15 %
Quizzes		5 %
Midterm Exam		30 %
Final Exam		50 %
	Total	100%

Last Updated: September, 2019