

## MSc. in Artificial Intelligence

الخطة الدراسية لبرنامج (ماجستير العلوم في الذكاء الاصطناعي)

### Program Courses (Thesis Track):

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours
Level 1	ARI60101	Fundamentals of AI	Required	None	3
	CS60102	Advanced Statistics and Probability	Required	None	3
	CS60103	Advanced Analysis & Design of Algorithms	Required	None	3
Level 2	ARI60201	Graph Theory	Required	None	3
	ARI60202	Autonomous Agent and Multi Agent Systems	Required	None	3
	ARI60203	Advanced Programming in AI	Required	CS60103	3
Level 3	CS60301	Research Methods in Computer Science	Required	None	3
		Elective I from Group A	Elective		3
		Elective II from Group B	Elective		3
Level 4	THES60002	Thesis	Required	Success in all courses of the first and second semesters	6



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**Program Courses (Research Project Track):**

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours
Level 1	ARI60101	Fundamentals of AI	Required	None	3
	CS60102	Advanced Statistics and Probability	Required	None	3
	CS60103	Advanced Analysis & Design of Algorithms	Required	None	3
Level 2	ARI60201	Graph Theory	Required	None	3
	ARI60202	Autonomous Agent and Multi Agent Systems	Required	None	3
	ARI60203	Advanced Programming in AI	Required	CS60103	3
Level 3	CS60301	Research Methods in Computer Science	Required	None	3
		Elective I from Group A	Elective		3
		Elective II from Group A	Elective		3
Level 4		Elective III from Group B	Elective		3
		Elective IV from Group C	Elective		3
	PROJ60002	Research Project	Required	Success in all courses of the first , second and third semesters	3



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**List of Elective Courses :**

No.	Course name	Course code	Prerequisite(s)	Credit hours
<b>Group A</b>				
1	Machine Learning	<b>ARI60312</b>	Advanced Statistics & Probability <b>CS60102</b>	3
2	Pattern Recognition	<b>ARI60305</b>	None	3
3	Computational Intelligence	<b>ARI60311</b>	None	3
<b>Group B</b>				
4	Data Science	<b>ARI60308</b>	Advanced Statistics & Probability <b>CS60102</b>	3
5	Advanced Image Processing	<b>ARI60302</b>	Advanced Analysis & Design of Algorithms <b>CS60103</b>	3
6	Advanced Natural Language Processing	<b>ARI60304</b>	None	3
7	Advanced Robotics	<b>ARI60303</b>	None	3
<b>Group C</b>				
8	Augmented & Virtual Reality	<b>ARI60309</b>	None	3
9	Deep Learning	<b>ARI60306</b>	Machine Learning <b>ARI60312</b>	3
10	Intelligent Transportation Systems	<b>ARI60310</b>	None	3
11	Optimization Techniques	<b>ARI60307</b>	None	3

