Umm Al–Qura University
College of Computers and Information Systems
Computer Science Dept.

VISION 2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

جامعة أم القرى
كلية الحاسب الآلي ونظم المعلومات
قسم علوم الحاسب الآلي

Master of Computer Science (Artificial Intelligence) Thesis-Route

Study Plan					
Level	**Course Code**	**Course Title**	**Required or Elective**	**Prerequisite Courses**	**Credit Hours**
Level 1	14016162-3	Fundamentals of Artificial Intelligence	Required	---	3
	14016163-3	Machine Learning	Required	---	3
	14016165-3	Data Mining	Required		3
	14016166-3	Optimization Methods	Required	---	3
Level 2	14016262-3	Neural Network	Required	---	3
	14016263-3	Natural Language Processing	Required	---	3
	14016264-1	MS Group Project	Required	---	1
	14016xxx-3	Elective 1	Elective	See elective list	3
	14016xxx-3	Elective 2	Elective	See elective list	3
Level 3	14016461-2	Independent Studies I	Required	---	**2**
	14016464-9	Thesis	Required	Completion of Level 1 & 2 courses	To be continue next level
Level 4	14016462-2	Independent Studies II	Required	---	2
	14016464-9	Thesis	Required	Completion of Level 1 & 2 courses	9
		TOTAL			**38**
• *List of elective courses is given separately*					

Include additional levels or courses if needed

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Elective Courses

Serial Number	Course ID	Course Name	Pre-Requisite
1	14016473-3	Research Methodology in CS	---
2	14016474-3	Reinforcement Learning	---
3	14016475-3	Data Visualization	---
4	14016476-3	Pattern Recognition	---
5	14016477-3	Social Media Analytics	---
6	14016478-3	Introduction to Robotics	---
7	14016481-3	Distributed Systems	---
8	14016482-3	Advanced Topics in Artificial Intelligence	---
9	14016483-3	Automatic Speech Recognition	---
10	14016484-3	Deep Learning	---
11	14016485-3	Evolutionary Computation	---
12	14016486-3	IoT Systems	---
13	14016487-3	Computer Vision	---
14	14016488-3	Advanced Topics in Information Security	---
15	14016489-3	Advanced Topics in Cloud Computing	---

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