

<b>Matrix of Correlation Between Program Learning Outcomes and Courses – Procedure of Preparing and Updating Course Plan / Department of Artificial Intelligence</b>	<b>QF01/0414-3.0</b>
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Faculty	Science and IT	Department	Artificial Intelligence	Program	Bachelor in Artificial Intelligence
Plan Number	2021 – 2022	Date of Approval	-7-28 2021	Number of Program Courses	44

**Learning Outcomes** (MK= Main Knowledge, MS= Main Skills, MC= Main Competences)

Main knowledge	
MK1	To have sufficient understanding of mathematical problems and algorithms as well as the internal design of the computer and its operating system.
MK2	To acquire the knowledge in programming methods, programming languages, and the ways to build computer programs and smart applications such as the Internet of Things.
MK3	To obtain deep understanding of the basics of data science, data security, database, big data, as well as their mining and retrieval.
MK4	To be acquainted with a comprehensive knowledge in the basics of artificial intelligence such as machine learning, deep learning, cognitive and knowledge-based systems and their applications.
Basic skills	
MS1	To be able to solve mathematical problems and design algorithms.
MS2	To be able to develop computer programs and smart applications.
MS3	Can build, analyze, process, filter, collect, and retrieve data from various sources.
MS4	Can apply advanced artificial intelligence concepts such as machine learning, artificial neural networks, computer vision, and robotics.
General competencies	

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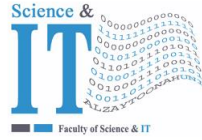
MC1	To employ theoretical concepts and provide smart and innovative software solutions to real-life problems.
MC2	To have a high level of commitment to the ethics related to data science and artificial intelligence
MC3	To Produce and implement smart computer applications that are commensurate with the requirements and needs of the labor market in a way that serves the local community.
MC4	To Work collaboratively to apply the acquired knowledge, develop communication skills, and work in the team spirit via building smart projects.

MC4	MC3	MC2	MC1	MS4	MS3	MS2	MS1	MK4	MK3	MK2	MK1	Course Name	Course Number
			X		X				X			Basics of Data Science	0142230
												Basics of Artificial Intelligence	0142231
			X			X				X		Data Sciences and Artificial Intelligence Programming (1)	0142220
			X		X				X			Computation Systems for Data Science and Artificial Intelligence	0142210
			X				X				X	Statistics and Probabilities for Data Science and Artificial Intelligence	0142211
	X			X				X				Machine Learning	0142232

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MC4	MC3	MC2	MC1	MS4	MS3	MS2	MS1	MK4	MK3	MK2	MK1	Course Name	Course Number
			X		X				X			Databases	0142251
			X			X				X		Data Sciences and Artificial Intelligence Programming (2)	0142321
	X				X				X			Big Data	0142433
	X			X				X				Cognitive and Knowledge Science	0142340
			X		X				X			Data Mining	0142334
			X		X		X					Operations Research	0142314
			X		X				X			Principles of Information Retrieval	0142335
	X				X				X			Principles of Natural Language Processing	0142441
			X	X				X				Artificial Neural Networks and Deep Learning	0142442
		X	X			X						Computer Vision	0142443
X	X			X								Project Construction Methodology	0142470
X	X			X								Robotics	0142351



جامعة الزيتونة الأردنية  
 AI-Zaytoonah University of Jordan  
 كلية العلوم وتكنولوجيا المعلومات  
 Faculty of Science and Information  
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X		X		X									Machine Learning Applications	0142436
X	X			X									Training	0142490
X	X			X									Graduation Project	0142472

Approved by Course Plan Committee	Dr. Bilal Hawashin	In Meeting Number	2
Approved in the Department Council Meeting Number		Date of Meeting	
Signature of the Department Chair		Signature of the Dean	