

مصفوفة ربط مخرجات تعلم البرنامج مع المساقات (يوضع علامة * للمساقات التي تحقق كل مخرج)

IRBID NATIONAL UNIVERSITY		PLOs									
FACULTY	Faculty of Science and Technology Information	المعرفة Knowledge			المهارات Skills			الكفايات Competencies			
Department	Data Science & Artificial Intelligence	K1 understanding of mathematical and statistical foundations, algorithm design, and relevant scientific design.	K2 Exhibit a comprehensive application across various concepts, principles, and their application.	K3 Demonstrate an in-depth comprehension of core AI and DS concepts, principles, and their application.	S1 Analyze and address complex problems in AI and DS by applying interdisciplinary computing principles to identify effective solutions tailored to complex issues.	S2 Utilize AI and DS algorithms along with software development principles to engineer intelligent solutions.	S3 Design, implement, and critically evaluate AI and DS solutions to fulfill specific intelligent computing requirements.	C1 Communicate effectively and professionally in varied contexts translating complex AI and DS concepts into comprehensible terms.	C2 Collaborate and lead within a team environment, contributing to activities aligned with AI and DS disciplines, and managing dynamics.	C3 Uphold professional integrity and ethical standards in AI and DS practices, making informed decisions that consider legal environment, contributing to activities aligned with AI and DS disciplines, and managing dynamics.	
program	Data Science & Artificial Intelligence										
	اسم المساق	رقم المساق	K1	K2	K3	S1	S2	S3	C1	C2	C3
1	Introduction to Algorithms	401115	*	*	*	*	*	*	*		
2	Algorithm Design and Analysis	409231	*	*	*	*	*	*	*		
3	Artificial Intelligence	409120	*	*	*	*	*		*	*	*
4	Data Science Principles	409101	*	*	*	*	*	*	*	*	
5	Big Data	409441	*	*		*	*		*		
6	Data Mining	409321	*	*	*	*	*	*	*	*	
7	Data Engineering	409341	*	*	*	*	*		*		*
8	Data Engineering Lab	409341	*	*	*	*	*		*		*
9	Artificial Intelligence Programming	409112	*	*	*	*	*	*	*	*	
10	Data Science Programming	409223	*	*	*	*	*	*	*	*	
11	Database	409255		*	*		*	*	*		
12	Machine Learning	409221	*	*	*	*	*	*	*	*	
13	Knowledge based Systems	409211	*	*		*	*		*	*	*
14	Neural Networks	409222	*	*	*	*	*	*	*	*	
15	Natural Language Processing	409432	*	*	*	*	*	*	*		
16	Deep Learning	409322	*	*	*	*	*	*	*		
17	Deep Learning Lab	409322	*	*	*	*	*	*	*		
18	Knowledge Representation and Reasoning	409210	*	*	*	*	*		*		
19	Practical Training	409471	*	*	*	*	*	*	*	*	
20	Graduation Project	409472	*	*	*	*	*		*	*	*