

Libyan International Medical University
School of Engineering and Technology
Artificial Intelligence Program

الخطة الدراسية لبرنامج الذكاء الاصطناعي

First Semester				
Course Title	Course No.	New Course No.	Pre-Req.	Credit
IT Foundations (PBL)	61151	2SW101	-----	3
Programming I	61152	2SW102	-----	4
Mathematics I	61155	2GT101	-----	3
English Language I	61150	2GU115	-----	3
Arabic Language	61157	2GU110	-----	2
Semester Credit Hours				15

Second Semester				
Course Title	Course No.	New Course No.	Pre-Req.	Credit
Programming II	61252	2SW103	Programming I	4
Mathematics II	61255	2GT102	Mathematics I	3
English Languages II	61250	2GU116	English I	3
Int. to Computer Networking (PBL)	61257	2NC101	IT Foundations	3
Probability and Statistics	61256	2GU121		3
Semester Credit Hours				16

Third Semester				
Course Title	Course No.	New Course No.	Pre-Req.	Credit
Int. Artificial Intelligence	62170	2AI201	IT Foundations	3
Digital Logic	61254	2TC232	IT Foundations	3
Communication Skills	62156	2GU118	20 Cr. Hrs	2
Programming III	62151	2SW262	Programming II	4
Linear Algebra	62209	2GE221	Mathematics II	3
Physics	62252	2GT202	-----	3
Semester Credit Hours				18

Fourth Semester				
Course Title	Course No.	New Course No.	Pre-Req.	Credit
Data Structures and Algorithms	62250	2SW263	Programming III	3
System Analysis & Design	63143	2AI202	Programming II	3
Mathematics and Statistics for AI	62271	2AI203	Probability and Statistics	3
Computer Architecture	62251	2AI204	Digital and logic design	3

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Introduction to Data Science	62272	2AI205	Int. Artificial Intelligence	3
Critical Thinking	63160	2GU400	-----	2
Semester Credit Hours				17

Fifth Semester				
Course Title	Course No.	New Course No.	Pre-Req.	Credit
Int. to Database Systems	62153	2SW270	Data Structures and Algorithms	3
Legal & Ethical Issues I	63150	2GT451	IT Foundations	1
Technical Writing	63112	2GE212	English II	3
Digital Signal Processing Systems	63210	2TC363	Physics	3
Operating System	64139	2AI306	Computer Architecture	3
Digital Image Processing	63173	2AI307	Linear Algebra	3
Machine Learning	63174	2AI308	Int. Artificial Intelligence	3
Semester Credit Hours				19

Sixth Semester				
Course Title	Course No.	New Course No.	Pre-Req.	Credit
Legal & Ethical Issues II	63151	2GT452	Legal & Ethical Issues I	1
Research Methods	63253	2GU415	75 Cr. Hrs	2
Security Principles and Practices.	63221	2NC204	Int. to Computer Networking	3
Data Engineering and Analysis	63275	2AI309	Introduction to Data Science + Mathematics and Statistics for AI	3
Deep Learning	63276	2AI310	Machine Learning	3

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Introduction to Embedded Systems	63277	2AI311	Operating System	3
Internship	64141	2AI312	75 Cr. Hrs	----
Semester Credit Hours				15

Seventh Semester				
Course Title	Course No.	New Course No.	Pre-Req.	Credit
Legal & Ethical Issues III	64156	2GT453	Legal & Ethical Issues II	1
IT Project Management	64277	2SW414	None	3
Graduation Project I	64142	2AI413	95 Cr. Hrs	2
Introduction to Robotics	64178	2AI414	Introduction to Embedded Systems	3
Computer Vision & Machine Learning	64179	2AI415	Digital Image Processing + Deep Learning	3
Data Mining and Warehouse	64414	2AI416	Data Engineering and Analysis	3
Student Selected Course				3
Semester Credit Hours				18

Eighth Semester				
Course Title	Course No.	New Course No.	Pre-Req.	Credit
Natural Language Processing	64281	2AI417	Deep Learning	3
Graduation Project II	64280	2AI418	Graduation Project I	4
Student Selected Course				3
Student Selected Course				3
Elective Course				---
Semester Credit Hours				13

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	Student selected Courses			
Course Title	Course No.	New Course No.	Pre-Req.	Credit
Logic and Knowledge Representation	64440	2AI419	Int. Artificial Intelligence	3
Big Data	64413	2AI420	Introduction to Data Science + Data Engineering and Analysis	3
Human AI Interaction	64441	2AI421	Int. Artificial Intelligence	3
Fuzzy Logic Systems	64442	2AI422	Int. Artificial Intelligence	3
Reasoning and Decision Making	64443	2AI423	Introduction to Data Science	3
Internet of Things: Foundations and Design	64444	2AI424	Int. Artificial Intelligence	3
Data Exploration and Visualization	64445	2AI425	Data Engineering and Analysis + Data Mining and Warehouse	3
Expert Systems	64446	2AI426	Machine Learning	3
Reinforcement Learning	-----	2AI427	Deep Learning	3