



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



## Artificial Intelligence Science Program

برنامج علوم الذكاء الاصطناعي

### Study Plan

الخطة الدراسية

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
1	MAT111	Mathematics I	3	0	1	0	4	3	150	6
	PHY211	Physics II	2	2	0	0	4	3	150	6
	CSE014	Structured Programming	2	3	0	0	5	3	180	6
	UC1	University Requirement (1)	2	0	0	0	2	2	90	4
	UC2	University Requirement (2)	2	0	0	0	2	2	90	4
	UE1	Elective University (1)	2	0	0	0	2	2	90	4
							19	15	750	30
2	MAT112	Mathematics II	3	0	1	0	4	3	150	6
	MAT131	Probability & Statistics I	2	1	2	0	5	3	195	6
	CSE015	Object Oriented Programming	2	3	0	0	5	3	180	6
	CSE315	Discrete Mathematics	2	0	2	0	4	3	150	6
	UC3	University Requirement (3)	2	0	0	0	2	2	90	4
	UE2	Elective University (2)	2	0	0	0	2	2	90	4
							22	16	855	32
	MAT212	Linear Algebra	2	2	0	0	4	3	150	6



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
3	MAT231	Probability & Statistics II	2	2	1	0	5	3	195	6
	CSE111	Data Structures	2	3	0	0	5	3	180	6
	CSE131	Logic Design	2	2	2	0	6	3	195	6
	AIE111	Artificial Intelligence	2	2	1	0	5	3	180	6
	UC4	University Requirement (4)	2	0	0	0	2	2	90	4
							27	17	990	34
4	MAT312	Differential Equations	2	0	2	0	4	3	150	6
	CSE132	Computer Architecture & Organization	2	2	1	0	5	3	165	6
	CSE221	Database Systems	2	2	1	0	5	3	180	6
	CSE281	Image Processing	2	2	1	0	5	3	180	6
	AIE121	Machine Learning	2	2	1	0	5	3	180	6
	AIE191	Field Training 1 in AI Science	2	0	0	0	2	2	60	4
							26	17	915	34
5	CSE233	Operating Systems	2	2	1	0	5	3	165	6
	CSE251	Software Engineering	2	2	1	0	5	3	180	6
	CSE261	Computer Networks	2	2	1	0	5	3	165	6
	AIE231	Neural Networks	2	2	1	0	5	3	180	6
	AIE323	Data Mining	2	2	1	0	5	3	180	6
	UC5	University Requirement (5)	2	0	0	0	2	2	90	4
							27	17	960	34
6	CSE112	Design & Analysis of Algorithms	3	0	3	0	6	4	195	8
	AIE212	Knowledge-Based Systems	2	2	1	0	5	3	180	6



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
	AIE213	Optimization Techniques	3	0	3	0	6	3	180	6
	AIE241	Natural Language Processing	2	2	1	0	5	3	180	6
	AIE292	Field Training 2 in AI Science	2	0	0	0	2	2	60	4
	E1	Elective Course (1)	2	2	1	0	5	3	180	6
							29	18	975	36
7	CSE363	Cloud Computing	2	2	1	0	5	3	180	6
	AIE322	Advanced Machine Learning	2	2	1	0	5	3	180	6
	AIE332	Deep Learning	2	2	1	0	5	3	180	6
	AIE493	Graduation Project 1	2	3	0	0	5	3	180	6
	E2	Elective Course (2)	2	2	1	0	5	3	180	6
	UC6	University Requirement (6)	2	0	0	0	2	2	90	4
							27	17	990	34
8	AIE425	Intelligent Recommender Systems	2	2	1	0	5	3	180	6
	AIE314	AI-Based Programming	2	2	1	0	5	3	180	6
	AIE494	Graduation Project 2	2	3	0	0	5	3	180	6
	E3	Elective Course (3)	2	2	1	0	5	3	180	6
	UC7	University Requirement (7)	2	0	0	0	2	2	90	4
	UE3	Elective University (3)	2	0	0	0	2	2	90	4
							24	16	900	32
							201	133	7335	266



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### Elective (E1)

CSE211	Web Programming
CSE234	Embedded Systems
CSE271	Introduction to Parallel Computing
CSE322	Big Data Analytics 1
CSE344	Introduction to Cyber Security
CSE382	Computer Graphics
CSE383	Computer Vision
CSE411	Theory of Computation & Compilers

### Elective (E2)

CSE464	Internet of things
CSE475	High Performance Computing
CSE485	Computer Games Theory
AIE417	Selected Topics in Artificial Intelligence 1
AIE315	Computational Logic
AIE316	Evolutionary Algorithms
AIE342	Advanced Methods for Data Analysis
AIE343	Machine Learning for Text Mining
AIE351	Robotics Design

### Elective (E3)

CSE487	Mixed & Augmented Reality
CSE488	Visualization & Animation
AIE418	Selected Topics in Artificial Intelligence 2
AIE424	Intelligent Decision Support Systems
AIE426	Decision Making Under Uncertainty
AIE427	Statistical Pattern Recognition
AIE444	Question Answering Systems
AIE457	Mobile Robot Development