



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الاهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY

Al Alamein  
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	CSE014	Structured Programming	3	3	0	0	6	3	180	6
	PHY211	Physics II	2	2	0	0	4	3	150	6
	MAT114	Analytical Geometry & Calculus I	3	2	0	0	5	4	195	8
	UC1	University Requirement (1)	2	0	0	0	2	2	90	4
	UE1	Elective University (1)	2	0	0	0	2	2	90	4
	UE2	Elective University (2)	2	0	0	0	2	2	90	4
							21	16	795	32
2	CSE015	Object Oriented Programming	3	3	0	0	6	3	180	6
	CSE113	Electric & Electronic Circuits	1	3	2	0	6	3	180	6
	MAT131	Statistics	1	2	0	0	3	2	105	4
	MAT313	Differential Equations & Numerical Analysis	3	2	0	0	5	4	195	8
	UC2	University Requirement (2)	2	0	0	0	2	2	90	4
	UC3	University Requirement (3)	2	0	0	0	2	2	90	4
							24	16	840	32
3	CSE111	Data Structures	3	3	0	0	6	3	180	6
	CSE131	Logic Design	3	2	2	0	7	3	195	6



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
	AIE111	Artificial Intelligence	3	3	0	0	6	3	180	6
	AIE191	Field Training 1 In AI Science	2	0	0	0	2	2	60	4
	MAT112	Mathematics II	2	2	0	0	4	3	150	6
	MAT231	Probability & Statistics	2	2	0	0	4	3	150	6
	UC4	University Requirement (4)	2	0	0	0	2	2	90	4
							<b>31</b>	<b>19</b>	<b>1005</b>	<b>38</b>
4	CSE112	Design & Analysis of Algorithms	3	3	0	0	6	3	180	6
	CSE132	Computer Architecture & Organization	3	2	0	0	5	3	165	6
	CSE221	Database Systems	3	3	0	0	6	3	180	6
	CSE251	Software Engineering	3	3	0	0	6	3	180	6
	CSE315	Discrete Mathematics	2	0	2	0	4	3	150	6
	AIE121	Machine Learning	3	3	0	0	6	3	180	6
							<b>33</b>	<b>18</b>	<b>1035</b>	<b>36</b>
5	CSE233	Operating Systems	3	2	0	0	5	3	165	6
	CSE261	Computer Networks	3	2	0	0	5	3	165	6
	CSE281	Image Processing	3	3	0	0	6	3	180	6
	AIE241	Natural Language Processing	3	3	0	0	6	3	180	6
	AIE323	Data Mining	3	3	0	0	6	3	180	6
	UE3	Elective University (3)	2	0	0	0	2	2	90	4
							<b>30</b>	<b>17</b>	<b>960</b>	<b>34</b>
6	AIE212	Knowledge-Based Systems	3	3	0	0	6	3	180	6
	AIE213	Optimization Techniques	3	0	3	0	6	3	180	6
	AIE231	Neural Networks	3	3	0	0	6	3	180	6
	AIE292	Field Training 2 In AI Science	2	0	0	0	2	3	90	6
	AIE343	Machine Learning for Text Mining	3	3	0	0	6	3	180	6



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
	E1	Elective Course (1)	3	3	0	0	6	3	180	6
	UC5	University Requirement (5)	2	0	0	0	2	2	90	4
								<b>34</b>	<b>20</b>	<b>1080</b>
7	AIE322	Advanced Machine Learning	3	3	0	0	6	3	180	6
	AIE425	Intelligent Recommender Systems	3	3	0	0	6	3	180	6
	AIE493	Graduation Project 1	2	0	0	0	2	3	120	6
	E1	Elective Course (1)	3	3	0	0	6	3	180	6
	UC6	University Requirement (6)	2	0	0	0	2	2	90	4
							<b>22</b>	<b>14</b>	<b>750</b>	<b>28</b>
8	CSE363	Cloud Computing	3	3	0	0	6	3	180	6
	AIE424	Intelligent Decision Support Systems	3	3	0	0	6	3	180	6
	AIE494	Graduation Project 2	2	0	0	0	2	3	120	6
	E1	Elective Course (1)	3	3	0	0	6	3	180	6
	UC7	University Requirement (7)	2	0	0	0	2	2	90	4
							<b>22</b>	<b>14</b>	<b>750</b>	<b>28</b>
							<b>217</b>	<b>134</b>	<b>7215</b>	<b>262</b>

### Elective (E1)

- ELE432 Digital Signal Processing
- CSE212 Theory of Computation & Compilers
- CSE272 Embedded Systems
- CSE322 Big Data Analytics 1
- CSE382 Computer Graphics
- CSE383 Computer Vision
- CSE464 Internet of Things



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CSE478	High Performance Computing
CSE485	Computer Games Theory
CSE487	Mixed & Augmented Reality
CSE488	Visualization & Animation
AIE314	AI-Based Programming
AIE315	Computational Logic
AIE316	Evolutionary Algorithms
AIE332	Deep Learning
AIE342	Advanced Methods for Data Analysis
AIE351	Robotics Design
AIE417	Selected Topics in Artificial Intelligence 1
AIE418	Selected Topics in Artificial Intelligence 2
AIE426	Decision Making Under Uncertainty
AIE427	Statistical Pattern Recognition
AIE444	Question Answering Systems
AIE457	Mobile Robot Development