



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALAMEIN INTERNATIONAL UNIVERSITY

**Computer Science Program****برنامج علوم الحاسب****III. Software Engineering****III. هندسة البرمجيات****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



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3	MAT212	Linear Algebra	2	2	0	0	4	3	150	6
	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
	CSE211	Web Programming	2	2	1	0	5	3	165	6
	CSE221	Database Systems	2	2	1	0	5	3	180	6
	CSE191	Field Training 1 in Computer Science	2	0	0	0	2	2	60	4
	CSE251	Software Engineering	2	2	1	0	5	3	180	6
							26	17	900	34
5	CSE233	Operating Systems	2	2	1	0	5	3	165	6
	E1	Elective Course (1)	2	2	1	0	5	3	180	6
	CSE261	Computer Networks	2	2	1	0	5	3	165	6
	AIE121	Machine Learning	2	2	1	0	5	3	180	6
	CSE352	Systems Analysis & Design	2	2	1	0	5	3	165	6
	UC5	University Requirement (5)	2	0	0	0	2	2	90	4
							27	17	945	34
	CSE112	Design & Analysis of Algorithms	3	0	3	0	6	4	195	8



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
6	CSE241	Security of Information Systems	2	2	1	0	5	3	150	6
	CSE323	Advanced Database Systems	2	2	1	0	5	3	180	6
	E2	Elective Course (2)	2	2	1	0	5	3	180	6
	CSE292	Field Training 2 in Computer Science	2	0	0	0	2	2	60	4
	UC6	University Requirement (6)	2	0	0	0	2	2	90	4
							25	17	855	34
7	CSE363	Cloud Computing	2	2	1	0	5	3	180	6
	CSE454	Advanced Software Engineering	2	2	1	0	5	3	180	6
	AIE323	Data Mining	2	2	1	0	5	3	180	6
	CSE493	Graduation Project 1	2	3	0	0	5	3	180	6
	UC7	University Requirement (7)	2	0	0	0	2	2	90	4
	E3	Elective Course (3)	2	2	1	0	5	3	180	6
							27	17	990	34
8	CSE411	Theory of Computation & Compilers	2	2	1	0	5	3	180	6
	CSE474	Distributed Information Systems	2	2	1	0	5	3	180	6
	CSE494	Graduation Project 2	2	3	0	0	5	3	180	6
	E4	Elective Course (4)	2	2	1	0	5	3	180	6
	E5	Elective Course (5)	2	2	1	0	5	3	180	6
	UE3	Elective University (3)	2	0	0	0	2	2	90	4
							27	17	990	34
							200	133	7305	266



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### Elective (E1)

CSE234	Embedded Systems
CSE271	Introduction to Parallel Computing
CSE281	Image Processing
CSE313	Mobile Programming

### Elective (E2)

CSE322	Big Data Analytics 1
AIE212	Knowledge-Based Systems
AIE231	Neural Networks
AIE241	Natural Language Processing

### Elective (E3)

CSE312	Advanced Web Programming
CSE464	Internet of things
AIE343	Machine Learning for Text Mining
AIE424	Intelligent Decision Support Systems
AIE425	Intelligent Recommender Systems

### Elective (E4)

CSE426	Selected Topics in Data Science
CSE424	Data Warehousing
CSE453	Building Information Systems
CSE455	Selected Topics in Software Engineering

### Elective (E5)

AIE332	Deep Learning
AIE342	Advanced Methods for Data Analysis
AIE314	AI-Based Programming
AIE322	Advanced Machine Learning