



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY

Al Alamein
International University**Computer Engineering Program****برنامج هندسة الحاسب****I. Embedded Systems****أ. النظم المدمجة****Study Plan****الخطط 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
	MAT123	Mechanics	2	2	0	0	4	3	150	6
	MEC011	Engineering Drawing (1)	2	0	3	0	5	3	135	4
	PHY212	Introduction to Engineering Physics	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
							24	17	855	32
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
	UC2	University Requirement (2)	2	0	0	0	2	2	90	4
	UC3	University Requirement (3)	2	0	0	0	2	2	90	4
							22	16	855	32
	MAT212	Linear Algebra	2	0	2	0	4	3	150	6



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3	CSE111	Data Structures	2	3	0	0	5	3	180	6
	CSE113	Electric & Electronic Circuits	1	3	2	0	6	3	180	6
	CSE131	Logic Design	2	2	2	0	6	3	195	6
	UC4	University Requirement (4)	2	0	0	0	2	2	90	4
	UC5	University Requirement (5)	2	0	0	0	2	2	90	4
							25	16	885	32
4	MAT231	Probability & Statistics II	2	2	1	0	5	3	195	6
	MAT312	Differential Equations	2	0	2	0	4	3	150	6
	CSE132	Computer Architecture & Organization	2	2	1	0	5	3	165	6
	AIE111	Artificial Intelligence	2	2	1	0	5	3	180	6
	E1	Elective Course (1)	2	2	1	0	5	3	180	6
							24	15	870	30
5	E2	Elective Course (2)	2	2	1	0	5	3	180	6
	CSE221	Database Systems	2	2	1	0	5	3	180	6
	CSE233	Operating Systems	2	2	1	0	5	3	165	6
	AIE121	Machine Learning	2	2	1	0	5	3	180	6
	CSE291	Field Training 1 in Computer Engineering	2	0	0	0	2	2	60	4
	UE1	Elective University (1)	2	0	0	0	2	2	90	4
							24	16	855	32
6	CSE112	Design & Analysis of Algorithms	3	0	3	0	6	4	195	8
	CSE211	Web Programming	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



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
	CSE234	Embedded Systems	2	2	1	0	5	3	180	6
							26	16	885	32
7	ELE432	Digital Signal Processing	2	1	1	0	4	3	150	6
	CSE242	Cryptography	2	1	2	0	5	3	180	6
	CSE281	Image Processing	2	2	1	0	5	3	180	6
	CSE344	Introduction to Cyber Security	2	2	1	0	5	3	180	6
	CSE363	Cloud Computing	2	2	1	0	5	3	180	6
	UE2	Elective University (2)	2	0	0	0	2	2	90	4
							26	17	960	34
8	CSE272	Parallel & Distributed Systems	2	2	1	0	5	3	150	6
	CSE335	Real Time & Embedded Systems Design	2	2	1	0	5	3	180	6
	CSE446	Information & Computer Networks Security	2	2	1	0	5	3	180	6
	CSE464	Internet of things	2	2	1	0	5	3	180	6
	CSE392	Field Training 2 in Computer Engineering	2	0	0	0	2	2	60	4
	UC6	University Requirement (6)	2	0	0	0	2	2	90	4
							24	16	840	32
9	E3	Elective Course (3)	2	2	1	0	5	3	180	6
	E4	Elective Course (4)	2	2	1	0	5	3	180	6
	CSE436	Selected Topics in Embedded Systems	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



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
							22	14	810	28
10	E5	Elective Course (5)	2	2	1	0	5	3	180	6
	E6	Elective Course (6)	2	2	1	0	5	3	180	6
	CSE466	Selected Topics in IoT	2	2	1	0	5	3	180	6
	CSE494	Graduation Project 2	2	3	0	0	5	3	180	6
	UE3	Elective University (3)	2	0	0	0	2	2	90	4
							22	14	810	28
							239	157	8625	312



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Elective (E1)

CHE142	Engineering Chemistry
MAT121	Dynamics
MAT122	Statics
MAT315	Numerical Analysis
PHY211	Physics II

Elective (E2)

ELE115	Electrical Circuits & Measurements
ELE215	Electronics & Digital Circuits
ELE232	Fundamentals of Communication Systems
ELE233	Automatic Control Systems
ELE338	Wireless Communication Networks

Elective (E3)

CSE241	Security of Information Systems
CSE311	Design of Compilers
CSE271	Introduction to Parallel Computing
AIE231	Neural Networks

Elective (E4)

CSE322	Big Data Analytics 1
CSE323	Advanced Database Systems
CSE373	Parallel Programming
CSE383	Computer Vision



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Elective (E5)

AIE322	Advanced Machine Learning
AIE323	Data Mining
AIE332	Deep Learning
AIE351	Robotics Design

Elective (E6)

CSE425	Big Data Analytics 2
CSE426	Selected Topics in Data Science
CSE465	Selected Topics in Cloud Computing
CSE474	Distributed Information Systems
CSE475	High Performance Computing