



EGYPTIAN NATIONAL UNIVERSITIES

مشروع وإنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية
ALALAMEIN INTERNATIONAL UNIVERSITYAl Alamein
International University**Computer Science Program****برنامج علوم الحاسب****I. Big Data Analytics****١. تحليل البيانات الضخمة****Study Plan****الخطط 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
							19	14	705	28
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
							22	14	750	28
3	CSE111	Data Structures	3	3	0	0	6	3	180	6
	CSE131	Logic Design	3	2	2	0	7	3	195	6
	CSE191	Field Training 1 In Computer Science	2	0	0	0	2	2	60	4



EGYPTIAN NATIONAL UNIVERSITIES

مشروع وإنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY

Al Alamein
International University

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
	MAT112	Mathematics II	2	2	0	0	4	3	150	6
	MAT231	Probability & Statistics	2	2	0	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
							27	18	915	36
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
	UC4	University Requirement (4)	2	0	0	0	2	2	90	4
							29	17	945	34
5	CSE211	Web Programming	3	2	0	0	5	3	165	6
	CSE233	Operating Systems	3	2	0	0	5	3	165	6
	CSE261	Computer Networks	3	2	0	0	5	3	165	6
	CSE271	Introduction to Parallel Computing	3	3	0	0	6	3	180	6
	AIE111	Artificial Intelligence	3	3	0	0	6	3	180	6
	UC5	University Requirement (5)	2	0	0	0	2	2	90	4
							29	17	945	34
6	CSE212	Theory of Computation & Compilers	3	3	0	0	6	3	180	6
	CSE292	Field Training 2 Computer Science	2	0	0	0	2	2	60	4
	CSE322	Big Data Analytics 1	3	3	0	0	6	3	180	6
	CSE352	Systems Analysis & Design	3	2	0	0	5	3	165	6
	AIE121	Machine Learning	3	3	0	0	6	3	180	6
	UC6	University Requirement (6)	2	0	0	0	2	2	90	4



EGYPTIAN NATIONAL UNIVERSITIES

مشروع وإنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY

Al Alamein
International University

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
	UE3	Elective University (3)	2	0	0	0	2	2	90	4
							29	18	945	36
7	CSE427	Selected Topics in Big Data	3	3	0	0	6	3	180	6
	CSE493	Graduation Project 1	2	0	0	0	2	3	120	6
	AIE323	Data Mining	3	3	0	0	6	3	180	6
	E1	Elective Course (1)	3	2	2	0	7	3	195	6
	UC7	University Requirement (7)	2	0	0	0	2	2	90	4
							23	14	765	28
8	CSE363	Cloud Computing	3	3	0	0	6	3	180	6
	CSE494	Graduation Project 2	2	0	0	0	2	3	120	6
	AIE342	Advanced Methods for Data Analysis	3	3	0	0	6	3	180	6
	E1	Elective Course (1)	3	2	2	0	7	3	195	6
	E1	Elective Course (1)	3	2	2	0	7	3	195	6
							28	15	870	30
							206	127	6840	254

Elective (E1)

- ELE432 Digital Signal Processing
- CSE272 Embedded Systems
- CSE273 Parallel & Distributed Systems
- CSE281 Image Processing
- CSE312 Advanced Web Programming
- CSE313 Android Development
- CSE314 IOS Development
- CSE323 Advanced Database Systems



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Al Alamein
International University

CSE363	Cloud Computing
CSE374	Parallel Programming
CSE383	Computer Vision
CSE424	Data Warehousing
CSE425	Big Data Analytics 2
CSE426	Selected Topics in Data Science
CSE446	Information & Computer Networks Security
CSE454	Advanced Software Engineering'
CSE464	Internet of Things
CSE475	Distributed Information Systems
CSE478	High Performance Computing
CSE484	Interactive Multimedia
AIE231	Neural Networks
AIE241	Natural Language Processing
AIE314	AI-Based Programming
AIE322	Advanced Machine Learning
AIE332	Deep Learning
AIE343	Machine Learning for Text Mining
AIE424	Intelligent Decision Support Systems
AIE425	Intelligent Recommender Systems
BMD311	Introduction to Bioinformatics
BMD312	Clinical Informatics



EGYPTIAN NATIONAL UNIVERSITIES

مشروع وإنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية
ALALAMEIN INTERNATIONAL UNIVERSITY



Al Alamein
International University

Computer Science Program

برنامج علوم الحاسب

II. Computer Vision

II. الرؤية بالحاسب

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
							19	14	705	28
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
							22	14	750	28
3	CSE111	Data Structures	3	3	0	0	6	3	180	6
	CSE131	Logic Design	3	2	2	0	7	3	195	6
	CSE191	Field Training 1 In Computer Science	2	0	0	0	2	2	60	4



EGYPTIAN NATIONAL UNIVERSITIES

مشروع وإنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY

Al Alamein
International University

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
	MAT112	Mathematics II	2	2	0	0	4	3	150	6
	MAT231	Probability & Statistics	2	2	0	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
							27	18	915	36
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
	UC4	University Requirement (4)	2	0	0	0	2	2	90	4
							29	17	945	34
5	CSE211	Web Programming	3	2	0	0	5	3	165	6
	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
	AIE111	Artificial Intelligence	3	3	0	0	6	3	180	6
	UC5	University Requirement (5)	2	0	0	0	2	2	90	4
							29	17	945	34
6	CSE212	Theory of Computation & Compilers	3	3	0	0	6	3	180	6
	CSE292	Field Training 2 Computer Science	2	0	0	0	2	2	60	4
	CSE352	Systems Analysis & Design	3	2	0	0	5	3	165	6
	CSE382	Computer Graphics	3	3	0	0	6	3	180	6
	AIE121	Machine Learning	3	3	0	0	6	3	180	6
	UC6	University Requirement (6)	2	0	0	0	2	2	90	4



EGYPTIAN NATIONAL UNIVERSITIES

مشروع وإنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY

Al Alamein
International University

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
	UE3	Elective University (3)	2	0	0	0	2	2	90	4
							29	18	945	36
7	CSE484	Interactive Multimedia	3	2	0	0	5	3	165	6
	CSE493	Graduation Project 1	2	0	0	0	2	3	120	6
	E1	Elective Course (1)	3	2	2	0	7	3	195	6
	E1	Elective Course (1)	3	2	2	0	7	3	195	6
	UC7	University Requirement (7)	2	0	0	0	2	2	90	4
							23	14	765	28
8	CSE363	Cloud Computing	3	3	0	0	6	3	180	6
	CSE383	Computer Vision	3	3	0	0	6	3	180	6
	CSE494	Graduation Project 2	2	0	0	0	2	3	120	6
	AIE323	Data Mining	3	3	0	0	6	3	180	6
	E1	Elective Course (1)	3	2	2	0	7	3	195	6
							27	15	855	30
							205	127	6825	254

Elective (E1)

- ELE432 Digital Signal Processing
- CSE272 Embedded Systems
- CSE273 Parallel & Distributed Systems
- CSE322 Big Data Analytics 1
- CSE344 Cyber Security
- CSE363 Cloud Computing
- CSE446 Information & Computer Networks Security
- CSE464 Internet of Things



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Al Alamein
International University

CSE475	Distributed Information Systems
CSE478	High Performance Computing
CSE485	Computer Games Theory
CSE486	Selected Topics in Computer Vision
CSE487	Mixed & Augmented Reality
CSE488	Visualization & Animation
AIE231	Neural Networks
AIE241	Natural Language Processing
AIE314	AI-Based Programming
AIE322	Advanced Machine Learning
AIE332	Deep Learning
AIE342	Advanced Methods for Data Analysis
AIE343	Machine Learning for Text Mining
BMD431	Medical Image Informatics



EGYPTIAN NATIONAL UNIVERSITIES

مشروع وإنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية
ALALAMEIN INTERNATIONAL UNIVERSITYAl Alamein
International University**Computer Science Program****برنامج علوم الحاسب****III. Software Engineering****.III هندسة البرمجيات****Study Plan****الخطط 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
							19	14	705	28
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
							22	14	750	28
3	CSE111	Data Structures	3	3	0	0	6	3	180	6
	CSE131	Logic Design	3	2	2	0	7	3	195	6
	CSE191	Field Training 1 In Computer Science	2	0	0	0	2	2	60	4



Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
	MAT112	Mathematics II	2	2	0	0	4	3	150	6
	MAT231	Probability & Statistics	2	2	0	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
							27	18	915	36
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
	UC4	University Requirement (4)	2	0	0	0	2	2	90	4
							29	17	945	34
5	CSE211	Web Programming	3	2	0	0	5	3	165	6
	CSE233	Operating Systems	3	2	0	0	5	3	165	6
	CSE241	Security of Information Systems	3	2	0	0	5	3	165	6
	CSE261	Computer Networks	3	2	0	0	5	3	165	6
	AIE111	Artificial Intelligence	3	3	0	0	6	3	180	6
	UC5	University Requirement (5)	2	0	0	0	2	2	90	4
							28	17	930	34
6	CSE212	Theory of Computation & Compilers	3	3	0	0	6	3	180	6
	CSE292	Field Training 2 Computer Science	2	0	0	0	2	2	60	4
	CSE323	Advanced Database Systems	3	3	0	0	6	3	180	6
	CSE352	Systems Analysis & Design	3	2	0	0	5	3	165	6
	AIE121	Machine Learning	3	3	0	0	6	3	180	6
	UC6	University Requirement (6)	2	0	0	0	2	2	90	4



EGYPTIAN NATIONAL UNIVERSITIES

مشروع وإنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY

Al Alamein
International University

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
	UE3	Elective University (3)	2	0	0	0	2	2	90	4
							29	18	945	36
7	CSE454	Advanced Software Engineering'	3	3	0	0	6	3	180	6
	CSE475	Distributed Information Systems	3	3	0	0	6	3	180	6
	CSE493	Graduation Project 1	2	0	0	0	2	3	120	6
	E1	Elective Course (1)	3	2	2	0	7	3	195	6
	UC7	University Requirement (7)	2	0	0	0	2	2	90	4
							23	14	765	28
8	CSE363	Cloud Computing	3	3	0	0	6	3	180	6
	CSE494	Graduation Project 2	2	0	0	0	2	3	120	6
	AIE323	Data Mining	3	3	0	0	6	3	180	6
	E1	Elective Course (1)	3	2	2	0	7	3	195	6
	E1	Elective Course (1)	3	2	2	0	7	3	195	6
							28	15	870	30
							205	127	6825	254

Elective (E1)

- ELE432 Digital Signal Processing
- CSE271 Introduction to Parallel Computing
- CSE272 Embedded Systems
- CSE281 Image Processing
- CSE312 Advanced Web Programming
- CSE313 Android Development
- CSE314 IOS Development
- CSE322 Big Data Analytics 1



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Al Alamein
International University

CSE344	Cyber Security
CSE363	Cloud Computing
CSE424	Data Warehousing
CSE426	Selected Topics in Data Science
CSE453	Building Information Systems
CSE455	Selected Topics in Software Engineering
CSE464	Internet of Things
CSE478	High Performance Computing
AIE231	Neural Networks
AIE241	Natural Language Processing
AIE314	AI-Based Programming
AIE322	Advanced Machine Learning
AIE332	Deep Learning
AIE342	Advanced Methods for Data Analysis
AIE343	Machine Learning for Text Mining
AIE424	Intelligent Decision Support Systems
AIE425	Intelligent Recommender Systems
BMD311	Introduction to Bioinformatics
BMD312	Clinical Informatics
BMD452	Biomedical Text Processing