



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY

Al Alamein
International University

Benchmark

المرجعية

- The bylaws of computer science faculties that offer Biomedical Informatics program in James Madison University - Information Technology Program at Arizona State University.

- تم الاطلاع والرجوع للوائح كليات الحاسبات التي تقدم برنامج تكنولوجيا المعلومات في جامعة جيمس ماديسون - برنامج تكنولوجيا المعلومات بجامعة ولاية أريزونا.

Information Technology Program

برنامج تكنولوجيا المعلومات

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
	BIS251	Business Information Systems	3	1	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



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
							21	16	810	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
	UC3	University Requirement (3)	2	0	0	0	2	2	90	4
	UE1	Elective University (1)	2	0	0	0	2	2	90	4
							22	16	855	32
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
	UC4	University Requirement (4)	2	0	0	0	2	2	90	4
	UE2	Elective University (2)	2	0	0	0	2	2	90	4
							24	16	900	32
4	MAT315	Numerical Analysis	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
	CSE241	Security of Information Systems	2	2	1	0	5	3	150	6
	CSE192	Field Training 1 in Information Technology	2	0	0	0	2	2	60	4
							26	17	870	34
	CSE232	Operating Systems Administration	2	2	1	0	5	3	180	6



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
5	CSE251	Software Engineering	2	2	1	0	5	3	180	6
	BIS356	Information Technology Governance	3	0	0	0	3	3	135	6
	CSE262	Introduction to Telecommunications, Networking and Security	2	2	1	0	5	3	180	6
	AIE122	Basics of Machine Learning and Data Science	2	2	1	0	5	3	180	6
	UC5	University Requirement (5)	2	0	0	0	2	2	90	4
							25	17	945	34
6	CSE321	Societal and Ethical Issues in Information Technology	2	2	1	0	5	3	180	6
	CSE324	IT Management and Operations	2	2	1	0	5	3	180	6
	CSE344	Introduction to Cyber Security	2	2	1	0	5	3	180	6
	E1	Elective Course (1)	2	2	1	0	5	3	180	6
	CSE293	Field Training 2 in Information Technology	2	0	0	0	2	2	60	4
	UC6	University Requirement (6)	2	0	0	0	2	2	90	4
							24	16	870	32
7	CSE325	Database Systems Administration	2	2	1	0	5	3	180	6
	CSE363	Cloud Computing	2	2	1	0	5	3	180	6
	CSE361	Networks Virtualization and Administration	2	2	1	0	5	3	180	6
	CSE493	Graduation Project 1	2	3	0	0	5	3	180	6
	UC6	University Requirement (6)	2	0	0	0	2	2	90	4
	E2	Elective Course (2)	2	2	1	0	5	3	180	6
							27	17	990	34
8	CSE353	Interaction Design	2	2	1	0	5	3	180	6
	CSE463	Advanced Networking	2	2	1	0	5	3	180	6
	CSE494	Graduation Project 2	2	3	0	0	5	3	180	6



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
	E3	Elective Course (3)	2	2	1	0	5	3	180	6
	E4	Elective Course (4)	2	2	1	0	5	3	180	6
	UE3	Elective University (3)	2	0	0	0	2	2	90	4
							27	17	990	34
							196	132	7230	264



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Elective (E1)

CSE112	Design & Analysis of Algorithms
CSE312	Advanced Web Programming
CSE313	Mobile Programming
CSE314	Android and iOS Development
AIE111	Artificial Intelligence

Elective (E2)

CSE351	Software Project Management
CSE362	Industrial Networks
CSE426	Selected Topics in Data Science
CSE427	Selected Topics in Big Data
AIE121	Machine Learning

Elective (E3)

CSE322	Big Data Analytics 1
CSE446	Information & Computer Networks Security
CSE447	Selected Topics in Computer Security
CSE448	Cyber Forensics
CSE464	Internet of things
CSE467	Client/Server Technologies & Applications
CSE468	Web Server Administration

Elective (E4)

AIE212	Knowledge-Based Systems
ELE232	Fundamentals of Communication Systems
BIS452	Integrated Information Systems
CSE465	Selected Topics in Cloud Computing
CSE466	Selected Topics in IoT