



Study Plans - English

Major	: Cyber Science & Data Security / Bachelor	Plan Semester	: 20251
Faculty	: Faculty of Engineering & Technology	Section	: Cyber Science & Data Security
Plan Hrs	: 127	Plan Type	: Major
Min Semester	: 4	Semester(s) Training	: Not Found
Max Semester	: 12	Semester(s) Training Hrs	:
		Edition	: 1
		Study Type	: Morning
		Thesis Type	: Nothing

Category : University Requirements Hrs : (17) Hrs

Group : Compulsory Hrs : (17) Hrs

course	Course Name	Hrs	Prerequisite Courses	Prerequisit Hrs
UR00101	Arabic Language	3		
UR00111	English Language I	3		
UR00112	English Language II	3		
UR00124	Fundamentals of Artificial Intelligence	3		
UR00125	First Aid & Life Support	2		
UR00126	Palestinian Studies	2		
UR00141	Leadership and Communication Skills	1		

Category : College Requirements Hrs : (22) Hrs

Group : Compulsory Hrs : (22) Hrs

course	Course Name	Hrs	Prerequisite Courses	Prerequisit Hrs
ETBS101	Calculus I	3		
ETBS102	Calculus II	3		
ETBS111	General Physics I	3		
ETBS112	General Physics II	3		
ETBS113	.Physics Lab	1		
ETCS101	Computer programming I	3		
ETCS102	Computer programming II	3		
ETCS210	Linear Algebra	3		

Category : Compulsory Major Requirements Hrs : (88) Hrs

Group : Compulsory Hrs : (76) Hrs

course	Course Name	Hrs	Prerequisite Courses	Prerequisit Hrs
ETCD303	Software Security and Development Lifecycle	3		
ETCD312	AI for Cyber Defense and Threat Detection	3		
ETCD401	Machine Learning for Security Applications	3		

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Category Compulsory Major Requirements

Hrs : (88) Hrs

Group Compulsory

Hrs : (76) Hrs

course	Course Name	Hrs	Prerequisite Courses	Prerequisit Hrs
ETCD421	Cybersecurity for Cloud Environments	3		
ETCDS323	Data Science and Risk Analytics	3		
ETCS201	Discrete Mathematics	3		
ETCS212	Statistics & Probability	3		
ETCS222	Numerical analysis	3		
ETCS223	Graph Theory	3		
ETCS227	Data Structures	3		
ETCS229	Database systems	3		
ETCS301	Design and analysis of Algorithms	3		
ETCS302	Objected Oriented Programming	3		
ETCS313	Operating Systems	3		
ETCS314	Computer Networks	3		
ETCS325	Mobile Applications	3		
ETCS327	Foundations of Cybersecurity	3		
ETCS333	Web Security	3		
ETCS401	Introduction to Machine Learning	3		
ETCS402	Cryptography & Computer Security	3		
ETCS403	Machine Learning for Cybersecurity	3		
ETCS405	Ethical Hacking and Penetration Testing	3		
ETCS411	Machine Learning for Cybersecurity	3		
ETCS433	Field Training	0		
ETCS434	Blockchain Technology & Security	3		
ETCS490	Graduation Project I	1		
ETCS491	Graduation Project II	3		

Group : Elective

Hrs : (12) Hrs

course	Course Name	Hrs	Prerequisite Courses	Prerequisit Hrs
ETCD403	Digital Forensics and Incident Response	3		
ETCD404	Privacy Engineering and Data Protection	3		
ETCD405	Software Reverse Engineering	3		
ETCD406	Image Processing for Cybersecurity Application	3		
ETCD407	Information Systems Security Assessment	3		
ETCD408	Risk Management in Cybersecurity	3		
ETCD409	Special Topics	3		