

Suggested Advisory Study Plan For a Bachelor Degree in :



جامعة البتراء

(2024-2025)

version: 6

جامعة البترا

كلية : تكنولوجيا المعلومات

الخطة الدراسية الاسترشادية المقترحة لدرجة البكالوريوس في :

تكنولوجيا المعلومات / أمن المعلومات

Information Technology\Information Security

First Year (29 Credit Hours)					Second Semester					Total CH
First Semester					Second Semester					
Course No	Course Title	Prerequisite	L	CH	Course No	Course Title	Prerequisite	L	CH	
103101	Calculus (1)			3	103250	Discrete Mathematics (1)	103101		3	
601104	Information Technology Fundamentals		+	3	601111	Programming Language (1)	601104	+	3	
603101	Introduction to Web Design	P.T / 9601099	+	3	605150	Cybersecurity Fundamentals	601104		3	
9400100	National Education			3	605161	Introduction to Data Communication & Networking	601104		3	
9400108	Life Skills			2	9400123	Communication Skills in English (1)	9402099 / P.T		3	
Total				14	Total				15	29
Second Year (34 Credit Hours)										
First Semester					Second Semester					
Course No	Course Title	Prerequisite	L	CH	Course No	Course Title	Prerequisite	L	CH	
103231	Principles of statistics	103101		3	103241	Linear Algebra (1)	103101		3	
601222	Data structures and algorithms	601111+103250	*	3	402201	Communication Skills for IT	9400123		3	
601212	Programming Language (2)	601111	+	3	601281	Database (1)	601222	*	3	
605250	Linux Security Fundamentals	605150+605161	+	3	605262	Local & Wide Area Networks	605161	+	3	
605264	Information & Network Security	605161+605150	+	3	9400107	Leadership and social responsibility			2	
9300105	Enterprenureship and Innovation			2	9400113	Communication Skills in Arabic (1)	9401099 / P.T.		3	
Total				17	Total				17	63
Third Year (36 Credit Hours)										
First Semester					Second Semester					
Course No	Course Title	Prerequisite	L	CH	Course No	Course Title	Prerequisite	L	CH	
603316	Internet Applications Programming	603101+601281	+	3	603392	Software Engineering	603391		3	
605335	Ethical Hacking	605264+605250	+	3	605341	Digital Forensic Investigation	605335	+	3	
603391	Systems Analysis & Design	601281		3	605349	Data Analytics	605264	+	3	
605343	Cryptography Theory	605264		3	605365	Network Monitoring & Documenting	605264 + 605262	+	3	
605346	Information & Network Security Programming	601222 + 601212	+	3	606360	Artificial Intelligence	601222		3	
9xxxxxxx	University Elective (1)			3	6xxxxxx	Department Elective (1)			3	
Total				18	Total				18	99
Fourth Year (34 Credit Hours)										
First Semester					Second Semester					
Course No	Course Title	Prerequisite	L	CH	Course No	Course Title	Prerequisite	L	CH	
601432	Operating Systems	601281		3	603460	Professional Ethics for IT	603391		1	
605400	Field Training	Dept. Approval +603392		3	605461	Software Development Security	605460 + 603392	+		
605460	Vulnerability Assessments	605365+605335	+	3	605485	Graduation Project(2)	605480	+	3	
605480	Graduation Project (1)	402201 +603392		3	9400109	Military Science			3	
9607000	Community service	9400107		0	6xxxxxx	Department Elective (3)			3	
6xxxxxxx	Department Elective (2)			3		Free Requirement			3	
9xxxxxxx	University Elective (2)			3						
Total				18	Total				13	133
Total Hours (133 Credit Hours)										