

Advanced Diploma (Cyber and Information Security)

TOTAL CREDITS = 36

Course Code	Course Title	Credit Hours	University/ College/ Specialization Requirement	Prerequisite	Semester
CSNW3204	Cloud Computing Fundamentals	3	Specialization	None	Semester 1
CSSY3106	Network Security and Management	3	Specialization	CSCN1104 – Computer Networking Fundamentals	
STAT3101	Probability and Statistics	3	College	MATH1202 – Calculus I	
UNEN3104	English III (Public Speaking)	3	University		
CSPM3201	Project Management and Acquisition	3	College	CSSE2101 – Introduction to Software Engineering OR CSIS2101 – Systems Analysis & Design	
	Major Elective I	3	Specialization		
CSRM3202	Research Methodology	3	College	STAT3101 – Probability and Statistics	Semester 2
CSSY3201	Advanced Topics in Information Security		Specialization	CSSY2101 – Advanced Information Security	
CSSY3105	Authentication and Access Control	3	Specialization	CSSY1208 – Introduction to Information Security	
CSSY3202	Web Application Security	3	Specialization	CSWD2101 – Web Development II	
CSSY3203	Ethical Hacking	3	Specialization	CSSY2101 – Advanced Information Security	
	Introduction to Information Security	3	Specialization		

B-Tech (Cyber and Information Security)

TOTAL CREDITS = 36

Course Code	Course Title	Credit Hours	University/ College/ Specialization Requirement	Prerequisite	Semester
CSSY4101	B-Tech Course Project I	3	Specialization	CSPM3201 – Project Management and Acquisition	Semester 1
CSSY4102	Advanced Cryptography	3	Specialization	CSSY2201 – Introduction to Cryptography	
CSSY4103	Security Operations Centre (SOC)	3	Specialization	CSNW3102 – Network Programming	
CSSY4104	Digital Forensics	3	Specialization	CSSY2101 – Advanced Information Security	
	Major Elective III	3	Specialization		
	Major Elective IV	3	Specialization		
CSSY4201	B-Tech Course Project II	3	Specialization	CSSY4101 – B-Tech Course Project I	Semester 2
CSSY4202	IT Control and Audit		Specialization	CSSY2101 – Advanced Information Security	
UNAB4105	Arabic Language Skills	3	University		
CSSY4203	Malware Analysis and Reverse Engineering	3	Specialization	CSSY3203 – Ethical Hacking	
	Major Elective V	3	Specialization		
	Major Elective VI	3	Specialization		

Adv. Diploma & B-Tech Elective Pool

Course Code	Course Title	Credit Hour	University/ College/ Specialization Requirement	Prerequisite
CSNW3102	Network programming	3	Specialization	CSPG1205 – Introduction to Programming
CSNW3101	Advanced Routing and Switching	3	Specialization	CSNW2102 – Introduction to Routing and Switching
CSDS3203	Introduction to Artificial Intelligence	3	Specialization	CSSE2203 – Data Structures and Algorithms Co-Requisite STAT3101 – Probability and Statistics
CSSE2203	Data Structures and Algorithms	3	Specialization	CSPG1205 – Introduction to Programming
CSDS4111	Introduction to Blockchain	3	Specialization	None
CSDS3205	Data Visualization	3	Specialization	None
CSSE4101	Computer Graphics and Games Development	3	Specialization	CSPG1205 – Introduction to Programming
CSSE3205	Fundamentals of Robotics	3	Specialization	CSPG1205 – Introduction to Programming
CSIS3507	Fundamental of Digital marketing	3	Specialization	None
BSSM4104	Strategic Management	3	Specialization	None

University Elective courses across all levels:

course	Course title	Credit hours	University/ College/ Specialization Requirement	Prerequisite
UNCS2215	Communication Skills	3	University	
UNPR2217	Preparing for Work	3	University	
UNWE2216	Working Ethics	3	University	
UNIS2206	Islamic Studies	3	University	
UNOC2207	Oman Civilization and Man	3	University	
UNCT2210	Critical Thinking	3	University	
UNCL2211	Chinese Language	3	University	
UNFL2213	French Language	3	University	
UNGL2215	German Language	3	University	