



Bachelor of Cybersecurity and Digital Forensics Curriculum V6

First Level										
Semester One					Semester Two					
No	Course Name	Credit	T	P	No	Course Name	Credit	T	P	
1	Introduction to Cyber Security	3	3	0	7	Data and Information Security	3	2	1	
2	Computer Fundamentals	2	1	1	8	Computer Networks	3	2	1	
3	Programming Principles and Techniques	4	2	2	9	Web Design and security	3	2	1	
4	Calculus	3	3	0	10	Discrete Mathematics	3	3	0	
5	English 1	2	2	0	11	English 2	2	2	0	
6	Islamic Culture	2	2	0	12	National Culture	2	2	0	
Total		16	14	2	Total		16	13	3	
Second Level										
Semester One					Semester Two					
No	Course Name	Credit	T	P	No	Course Name	Credit	T	P	
13	Operating Systems	3	2	1	19	Cyber Security Programming	3	2	1	
14	Network security	3	2	1	20	Operating System Administration	3	2	1	
15	OOP	3	2	1	21	Wireless Security	3	2	1	
16	Database Systems	3	2	1	22	Cryptography	3	2	1	
17	Probability and Statistics	3	3	0	23	Data structure and Algorithm	3	2	1	
18	Arabic 1	2	2	0	24	Arabic 2	2	2	0	
Total		17	13	4	Total		17	12	5	
Third Level										
Semester One					Semester Two					
No	Course Name	Credit	T	P	No	Course Name	Credit	T	P	
25	Operating System Security and Hacking	3	2	1	31	Ethical hacking	3	2	1	
26	Security Architecture	3	2	1	32	Digital Forensic Investigation	3	2	1	
27	Cyber Forensics	3	2	1	33	Software engineering	3	2	1	
28	Elective 1	3	2	1	34	Elective 2	3	2	1	
29	Artificial Intelligence	3	2	1	35	Security Risk Assessment and Counter Measures	3	2	1	
30	Arab Israeli Conflict	2	2	0	36	Communication Skills	2	2	0	
Total		17	12	5	Total		17	12	5	
No	Summer Semester									
37	Industrial Training	0								
Fourth Level										
Semester One					Semester Two					
No	Course Name	Credit	T	P	No	Course Name	Credit	T	P	
38	Information Security Management System	3	2	1	43	Data and Image Forensics	3	2	1	
39	IT Project Management	3	2	1	44	Network and Social Media Forensics	3	2	1	
40	Elective 3	3	2	1	45	Computing Ethics	3	3	0	
41	Graduation Project 1	3	0	3	46	Elective 4	3	2	1	
42	Operating System Forensic	3	2	1	47	Graduation Project 2	3	0	3	
Total		15	8	7	Total		15	9	6	



Elective Courses

Domain	Subject Name	Credit	Th	P
Security	Network Management Security	3	2	1
	Special topics in cyber security	3	2	1
	IOT and Cloud computing *	3	2	1
	Enterprise cybersecurity	3	2	1
Systems	Blockchain technology and application	3	2	1
	Embedded system **	3	2	1
	Database Security	3	2	1
	Data Science	3	2	1
	System Analysis and Design	3	2	1
Network	IOT and Cloud computing *	3	2	1
Programming	Mobile Programming	3	2	1
	Embedded system **	3	2	1

Aptech Certificates Mapping

No	Aptech Certificate	Certificate Awarding Time
1	Security Administrator	After Completing Year 1
2	Security Specialist	After Completing Year 2
3	Ethical Hacker	After Completing Year 3
4	Forensics Investigator / Cyber Crime Investigator	After Completing Year 4