"Study plan for the Cybersecurity Department" Courses distribution plan at academic levels

First Year			First Semester				
N	Code	Course Title	pre-requisite	Credit Hours			
				C.H	L	P	T
1	COM101	Communication Skills	-	2	2	0	0
2	ARB101	Arabic Language I	-	2	2	0	0
3	ENG101	English Language I	-	2	2	0	0
4	CSB101	Computer Skills	-	2	1	2	0
5	MTH111	Mathematics I	-	3	2	0	2
6	CSB111	Fundamentals of Computing	-	3	2	0	2
7	CSB112	Programming Fundamentals	CSB111	3	2	2	0
Total Credit Hours				17	13	4	4

First Year			Second Semester				
N	Code	Course Title	pre-requisite	Credit Hours			
				C.H	L	P	T
1	ISL101	Islamic Culture	-	2	2	0	0
2	ARB102	Arabic Language II	ARB101	2	2	0	0
3	ENG102	English Language II	ENG101	2	2	0	0
4	CSB113	Computer programming	CSB112	3	2	2	0
5	MTH121	Mathematics II	MTH111	3	2	0	2
6	MTH122	Mathematics Structure	MTH111	3	2	0	2
7	CYB161	Cybersecurity Fundamentals	CSB111	3	3	0	0
Total Credit Hours				18	15	2	4

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Second Year				Third Semester			
N	Code	Course Title	pre-requisite	Credit Hours			
				C.H	L	P	T
1	ENG212	English Technical	ENG102	2	2	0	0
2	ISB211	Systems Analysis and Design	CSB111, CSB212	3	2	2	0
3	CSB212	Databases Fundamentals	CSB111	3	2	2	0
4	CSB271	Logical design	MTH122, CSB111	3	2	0	2
5	STA213	Probability and Statistics	MTH121	3	2	2	0
6	CSB231	Data Structures and Algorithms	CSB113	3	2	2	0
Total Credit Hours				17	12	8	2

Second Year				Fourth Semester			
N	Code	Course Title	pre-requisite	Credit Hours			
				C.H	L	P	T
1	CSB251	Data communication and networks	CYB161, CSB271	3	2	2	0
2	CSB272	Computer architecture and organization	CSB271	3	2	2	0
3	CSB214	Object Oriented Programming	CSB113	3	2	2	0
4	CYB262	Law, Privacy and Ethics in Cyber Security	CYB161	2	2	0	0
5	CYB263	Cryptography	CYB161	3	2	2	0
6	ITB215	Fundamentals of Web Design	CSB113	3	2	2	0
Total Credit Hours				17	12	10	0

Third Year				Fifth Semester			
N	Code	Course Title	pre-requisite	Credit Hours			
				C.H	L	P	T
1	CYB341	Information security protocols	CYB263, CSB251	3	2	2	0
2	CYB364	Secured software development	ISB211, CYB262	3	2	2	0
3	CSB316	Operating Systems	CSB272	3	2	2	0
4	ITB332	Web Application Development	ITB215	3	2	2	0
5	ITB333	Visual Programming	CSB214	3	2	2	0
6	CSB352	Computer Network	CSB251	3	2	2	0
Total Credit Hours				18	12	12	0

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Third Year				Sixth Semester				
N	Code	Course Title	pre-requisite	Credit Hours				
				C.H	L	P	T	
1	ITB353	Network management and monitoring	CSB352	3	2	2	0	
2	ITB342	Information Security Management	CYB341, CYB262	3	3	0	0	
3	CYB354	Network Security	CSB352, CYB341	3	2	2	0	
4	CYB365	Ethical hacking	CYB161, CYB341, ITB332	3	2	2	0	
5	CSB355	Wireless and mobile computing & security	CSB352, ITB333	3	2	2	0	
6		Elective I		3	3	0	0	
Total Credit Hours				**18**	**14**	**8**	**0**	

Summer training for a period of no less than 3 weeks

Fourth Year				Seventh Semester				
N	Code	Course Title	pre-requisite	Credit Hours				
				C.H	L	P	T	
1	ITB456	Cloud Computing and security	ITB353, CYB341	3	2	2	0	
2	CYB466	Cyber-crime and digital forensics	CYB365, CYB354, CSB336	3	2	2	0	
3	RES491	Research Methodology	STA213	3	3	0	0	
4	CYB492	Graduation Project I	What is suggested by the department	2	1	0	2	
5		Elective (2)		3	3	0	0	
Total Credit Hours				**14**	**11**	**4**	**2**	

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N	Code	Course Title	pre-requisite	C.H	L	P	T
Fourth Year			**Eighth Semester**	**Credit Hours**			
1	CYB467	Selected Topics in Cyber Security	CYB467	3	3	0	0
2	CYB443	Risk Assessment and management	ITB342, CYB466	3	3	0	0
3	CYB493	Graduation Project II	What is suggested by the department	3	1	4	0
4		Elective (3)		3	3	0	0
Total Credit Hours				**12**	**10**	**4**	**0**

Elective Courses: (9) Credit Hours selected from the following list:

N	Code	Course Title	pre-requisite	C.H	L	P	T
				Credit Hours			
1	CSBx4x	Biometric		3	0	0	0
2	CSBx5x	Data Science		3	0	0	0
3	CSBx6x	Internet of things and its security		3	0	0	0
4	CSBxxx	Artificial intelligence		3	0	0	0
5	ITBx5x	E-commerce and its security		3	0	0	0
6	CYBx4x	Database management and its security		3	0	0	0
7	CSBx7x	Reverse Engineering		3	0	0	0
8	CSBx8x	Distributed computing and its security		3	0	0	0
9	CSBx9x	Current trends in Cyber Security		3	0	0	0
10	CYBx7x	Cyber Warfare		3	0	0	0
Total Credit Hours				**30**	**0**	**0**	**0**

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