

## MSc. in Cybersecurity

(الخطة الدراسية لبرنامج (ماجستير العلوم في الأمن السيبراني)

### 1. Program Courses (Thesis Track):

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours
Level 1	CYBS60101	Fundamental of Cybersecurity	Required	None	3
	CYBS60102	Intro to Cryptography	Required	None	3
	CS60103	Advanced Analysis and Design of Algorithms	Required	None	3
Level 2	CYBS60201	Advanced Programming in Cybersecurity	Required	Advanced Analysis & Design of Algorithms CS60103	3
	CYBS60202	Operating System Security	Required	None	3
	CYBS60203	Network Security	Required	None	3
Level 3	CS60301	Research Methods in Computer Science	Required	None	3
		Elective I from Group A	Elective		3
		Elective II from Group B	Elective		3
Level 4	THES60002	Thesis	Required	Success in all courses of the first and second semesters	6



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## 2. Program Courses (Research Project Track):

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours
Level 1	CYBS60101	Fundamental of Cybersecurity	Required	None	3
	CYBS60102	Intro to Cryptography	Required	None	3
	CS60103	Advanced. Analysis & Design of Algorithms	Required	None	3
Level 2	CYBS60201	Advanced Programming in Cybersecurity	Required	Advanced Analysis & Design of Algorithms CS60103	3
	CYBS60202	Operating System Security	Required	None	3
	CYBS60203	Network Security	Required	None	3
Level 3	CS60301	Research Methods in Computer Science	Required	None	3
		Elective I from Group A	Elective		3
		Elective II from Group A	Elective		3
Level 4		Elective III from Group B	Elective		3
		Elective IV from Group C	Elective		3
	PROJ60002	Research Project	Required	None	3



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Elective Course List :

No.	Course Name	Course Code	Pre-requisite Courses	Credit Hours
<b>Group A</b>				
1	Digital Forensics	<b>CYBS60312</b>	None	3
2	Malware Analysis and Engineering	<b>CYBS60308</b>	Advanced Programming in Cybersecurity <b>CYBS60201</b>	3
3	Machine Learning In Cybersecurity	<b>CYBS60305</b>	None	3
4	Network Forensics	<b>CYBS60306</b>	None	3
5	Selected Topics in Cybersecurity	<b>CYBS60315</b>		3
<b>Group B</b>				
6	Database Security	<b>CYBS60302</b>	None	3
7	Wireless And Mobile Security	<b>CYBS60307</b>	Network Security <b>CYBS60203</b>	3
8	Software Security	<b>CYBS60303</b>	None	3
9	Blockchain Technology	<b>CYBS60309</b>	None	3
10	Distributed Systems Security	<b>CYBS60304</b>	None	3
<b>Group C</b>				
9	Cybersecurity Governance and Compliance	<b>CYBS60310</b>	None	3
10	Risk Management in Cybersecurity	<b>CYBS60311</b>	None	3
11	Privacy and Data Protection	<b>CYBS60313</b>	Intro to Cryptography <b>CYBS60102</b>	3
12	Cybersecurity Auditing	<b>CYBS60314</b>	None	3

