

General Directorate of
Education

الإدارة العامة للتعليم

:Date 2026-02-02

Degree Plan For
Bachelor

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Department : Computer and Information TechnologyMajor Name : Information TechnologyMajor Code : 1-3-106Edition: 1Effective Sem. : 471College Requirement : **122 CR. Hours****1 Compulsory Courses** 104 CR. Hours

YR SEM	Course Code	Course Title	Crd. Hrs	Cont. Hrs	Lec.	Lab	Prerequisite
11	CIT 110	Computer Fundamentals	3	5	2	3	
11	CIT 111	Introduction to Web Design	2	4	1	3	
11	CIT 112	Introduction to Virtualization	2	4	1	3	
11	CIT 124	Soft Skills	3	3	3	0	
11	ENGL 119	Academic Writing	3	3	3	0	
11	MATH 106	Math for Information Technology	3	3	3	0	
12	CIT 120	Computer Networks I	3	5	2	3	CIT 110
12	CIT 121	PC Hardware Technology	3	5	2	3	CIT 112
12	CIT 122	Database Concepts	3	5	2	3	CIT 110
12	CIT 123	Programming Concepts	3	5	2	3	MATH 106
12	ENGL 129	Professional Communication	3	3	3	0	ENGL 119
21	CIT 230	Computer Networks II	3	5	2	3	CIT 120
21	CIT 231	PC Configuration & Troubleshooting	2	4	0	4	CIT 112, CIT 121
21	CIT 232	Network Operating Systems	3	5	2	3	CIT 112, CIT 120
21	CIT 233	Enterprise Resource Planning	3	4	2	2	ENGL 119
21	CIT 234	Computer Ethics	2	2	2	0	ENGL 129
21	ENGL 213	Technical Writing	3	3	3	0	ENGL 129
22	CIT 240	Disaster Recovery	3	5	2	3	CIT 231
22	CIT 241	End-User Support	3	5	2	3	CIT 231
22	CIT 242	System Administration	3	5	2	3	CIT 232
22	CIT 243	Computer and Network Security	3	5	2	3	CIT 230, CIT 232
22	CIT 246	Project Management	3	3	3	0	
31	CS 120	Programming I	3	5	2	3	CIT 123
31	CS 230	Digital Logic Design	4	6	3	3	MATH 106
31	CS 232	Discrete Structures I	3	3	3	0	MATH 106
31	CS 354	Database Systems	3	5	2	3	CIT 122
31	CS 410	Intro. to Data Science and Artificial Intelligence	3	5	2	3	CIT 123
32	CS 231	Programming II	4	6	3	3	CS 120
32	CS 242	Computer Architecture and Organization	4	6	3	3	CS 230
32	CS 362	Web Engineering and Development	3	5	2	3	CIT 111, CS 354
41	CS 353	Software Engineering	3	4	3	1	CS 354
41	CS 472	Programming Languages	3	3	3	0	CS 231, CS 362
41	CS 474	Mobile Application Development	3	5	2	3	CS 362
42	BUS 482	Business Principles and Practices	3	3	3	0	
42	IT 400	Graduation Project	3		0	0	CS 353

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YR SEM	Course Code	Course Title	Crd. Hrs	Cont. Hrs	Lec.	Lab	Prerequisite
32	CS 372	Cloud Computing	3	4	3	1	CS 354
41	CC 460	Cloud Systems Architecture	3		0	0	CS 372
41	CC 461	Cloud Security	3		0	0	CS 372
42	CC 462	Cloud System Administration	3		0	0	CS 372
42	CC 463	Advanced Cloud Computing	3		0	0	CS 372
42	CC 464	Cloud Operations and Development	3		0	0	CS 372
42	CC 465	Cloud-Native Application Development	3		0	0	CS 372

2 Package Courses 18 CR. Hours

YR SEM	Course Code	Course Title	Crd. Hrs	Cont. Hrs	Lec.	Lab	Prerequisite
32	CS 366	Introduction to Artificial Intelligence	3	3	3	0	CS 232
41	AI 481	Deep Learning	3		0	0	CS 366
41	CS 480	Machine Learning	3	3	3	0	CS 366
42	AI 482	Natural Language Processing	3		0	0	CS 366
42	AI 483	Generative AI Models	3		0	0	CS 366
42	AI 484	Computer Vision	3		0	0	CS 366
42	AI 485	AI Ethics and Policy	3		0	0	CS 366

3 Package Courses 18 CR. Hours

YR SEM	Course Code	Course Title	Crd. Hrs	Cont. Hrs	Lec.	Lab	Prerequisite
32	CS 365	Cybersecurity	3	4	3	1	CIT 243
41	SEC 420	Network Security	3		0	0	CS 365
41	SEC 421	Wireless Sensor Networks	3		0	0	CS 365
42	SEC 422	Cyber Forensics	3		0	0	CS 365
42	SEC 423	Advanced Cybersecurity Concepts	3		0	0	CS 365
42	SEC 424	Cybersecurity Policy & Risk Management	3		0	0	CS 365
42	SEC 425	Incident Response and Ethical Hacking	3		0	0	CS 365

4 Package Courses 18 CR. Hours

YR SEM	Course Code	Course Title	Crd. Hrs	Cont. Hrs	Lec.	Lab	Prerequisite
32	IOT 330	Internet of Things Fundamentals	3		0	0	CIT 243
41	IOT 440	IoT Network Design	3		0	0	IOT 330
41	IOT 441	Industrial IoT	3		0	0	IOT 330
42	IOT 442	IoT Security and Privacy	3		0	0	IOT 330
42	IOT 443	Embedded Systems for IoT	3		0	0	IOT 330

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YR SEM	Course Code	Course Title	Crd. Hrs	Cont. Hrs	Lec.	Lab	Prerequisite
42	IOT 444	Advanced IoT Applications and Analytics	3		0	0	IOT 330
42	IOT 445	IoT Edge Computing	3		0	0	IOT 330