

Study Plan

Bachelor of Computer and Networking Engineering Technology

Semester	Course Code	Course Title	Pre/ Co Requisite	Credit Hours	
Semester 1	LNG	181	English I for Engineering & Computing	None	3
	NET	100	Fundamental of Digital Systems	None	3
	MTH	112	Calculus I	Pass Math Placement Test or MTH-012	3
	EBU	200	e-Business Fundamentals	None	3
	SWS	110	Programming I	None	3
	ENT	141	Fundamentals in Innovation and Entrepreneurship 1	None	2
	Total				17

Semester 2	MTH	120	Discrete Mathematics	Pass Math Placement Test or MTH 012	3
	LNG	182	English II for Engineering & Computing	LNG-181	3
	MKT	201	Principles of Marketing	LNG-171 or LNG-181	3
	NET	110	Computer Networks Fundamentals	ENG-101 or NET-100	3
	SWS	316	Programming II	SWS-110	3
	ENT	142	Fundamentals in Innovation and Entrepreneurship 2	ENT-141	1
	Total				16
Semester 3	SCI	210	Modern Physics	MTH-112	3
	MTH	130	Probability and Statistics	MTH-112	3

	NET	120	LAN Switching and Routing	NET-100	3
	BCS	306	Database Management Systems	BCS-201, BCS-202 or SWS-316	3
	NET	105	Microprocessors and Microcontrollers	NET-100	3
	ENT	241	Entrepreneurship I	ENT-142	2
	Total				17
Semester 4	NET	111	Operating Systems Fundamentals	ENG-210 or NET-105	3
	SWS	211	System Analysis and Design	SWS-316	3
	NET	320	Advanced LAN Switching and Routing	NET-120	3
	SWS	215	Web Development	BCS-306	3
	NET	214	Network Programming	NET-120, SWS-316	3

	ENT	242	Entrepreneurship II	ENT-241	1
	Total				16
Semester 5	NET	121	Network Operating Systems	NET-111	3
	GED	198	Islamic Culture	None	3
	NET	220	Network Security and Administration	NET-120	3
	SWS	351	Management Information Systems	GED-101 or SWS-110	3
	NET	221	Communication Technology	NET-120	3
	Total				15
Semester 6	BUS	310	Project Management	Completion of 60 Cr. H	3
	NET	222	Wireless Networks	NET-221 or COM-412	3

	SWS	405	Applied Artificial Intelligence	BCS-206, BCS-205 or SWS-316, MTH-130	3
	GED	196	Communication Skills in Arabic 1	None	3
	NET	405	Virtualization and Cloud Computing	NET-320	3
	Total				15
Semester 7	BCS	401	Ethics for Computing Professionals	None	3
	SWS	315	Mobile Application Development	SWS-215	3
		XX X	Major elective 1		3
			Humanity Elective		3
	NET	440	CNET Project-1	Completed 100 Cr.H	2

	NET	410	Enterprise Network Design	NET-222	3
	Total				17
Semester 8	NET	406	Cloud Architecture	NET-405	3
	NET	441	CNET Project-2	NET-440	2
	NET	310	Network Management	NET-222	3
	NET	420	Advanced Network Troubleshooting	NET-222	3
		XX X	Major elective 2		3
	GED	199	UAE Society	None	3
	Total				17
Internship* to be taken summer semester after completion of 90 Cr.H + CGPA 2.0 or more					3
Total Credit Hours					133

* The internship is a mandatory course of an undergraduate program with the purpose of providing students with an opportunity to have professional work experience in a setting related to the student's major. The duration of an internship is based on the program of study. However, all the undergraduate students from Business, Engineering, Computer Science, Information Technology, Architecture and Interior Design are expected to spend at least sixteen (16) weeks at an organization providing internship experience.