Study Plan of Bachelor of Science in Information Technology: Networking track

Program	Awarded Degree	Concentration
Computer Science (IT)	Bachelor of Science in Information Technology	Networking

First Semester

Code	Course Name	Cr.	Pre.
CP 101	Introduction to Computing	3	
CP 110	Programming I	3	
ISL 101	Islamic Studies	3	
MATH 101	Calculus I	4	
STAT 101	General Statistics	3	
	Total	16	

Second Semester

Code	Course Name	Cr.	Pre.
ARAB 101	Arabic Language	3	
CP 115	Programming II	3	CP 110
CP 120	Digital Logic Design	3	
MATH 102	Calculus II	4	MATH 101
STAT 102	Probability Theory	3	STAT 101
	Total	16	

Third Semester

Code	Course Name	Cr.	Pre.
CHEM 101	General Chemistry I	4	
CP 210	Data Structures I	3	CP 115
CP 220	Computer Organization & Architecture	3	CP 120
MATH 212	Discrete Math	3	MATH 101
STAT 250	Applied Probability & Random Processes	3	STAT 102
	Total	16	

Fourth Semester

Code	Course Name	Cr.	Pre.
CP 225	Operating Systems	3	CP 220
CP 230	Systems Analysis and Design	3	CP 210
CP 240	Databases	3	CP 210
ENGL 201	Technical Writing	3	
PHYS 101	General Physics	4	
	Total	16	

Fifth Semester

Code	Course Name	Cr.	Pre.
IT 325	System Administration	3	CP 225
IT 310	Advanced Programing	3	CP 210
IT 350	Computer Networks	3	CP 225
IT 370	Introduction to Cybersecurity	3	CP 225
IT 380	Human-Computer Interaction	3	CP 230
	Free I	3	
	Total	18	

Sixth Semester

Code	Course Name	Cr.	Pre.
IT 340	Database Administration	3	CP 240
IT 355	Networks Administration	3	IT 350
IT 335	Project Management	3	CP 230
	Concentration Course I	3	
	Concentration Course II	3	
	Free II	3	
	Total	18	

Summer Semester

CS 390 - Summer (Workplace) Training – Credit: 1 Training: 200 Hours – Prerequisite: Department Approval.

Seventh Semester

Eighth Semester

Course Code	Course Name	Cr.	Pre.
IT 498	Senior Project (I)	1	IT 390
IT 401	Professional Computing Issues	3	IT 390
	Concentration Course III	3	
	Concentration Course IV	3	
	Elective I	3	
	Free III	3	
Total		**16**	

Course code	Course Name	Cr.	Pre.
IT 491	Needs Assessment &Technology Evaluation	3	IT 390
IT 499	Senior Project (II)	3	IT 498
	Concentration Course V	3	
	Elective II	3	
	Elective III	3	
Total		**15**	

CS Concentration Courses

Course Code	Course Name	Credit Hours	Prerequisite
Networking Concentration			
IT 356	Advanced Computer Networks	3	IT 350
IT 358	Wireless and Mobile Communication	3	IT 350
IT 451	Cloud Computing	3	IT 350
IT 456	Internet of Things	3	IT 350
IT 458	Software Defined Networks	3	IT 350
Total		**15**	

CS Elective Courses

Course Code	Course Name	Credit Hours	Prerequisite
IT 495	Special/Selected Topics	3	Dept. Approval
IT 485	User-Centered System Design	3	Dept. Approval
IT 492	E-Business Technology	3	Dept. Approval
Total		**9**	

Free Courses

Course Code	Course Name	Cr.	Pre.
EI - 101	Emotional Intelligence	3	
ENG 204	Critical Thinking	3	
ETH 101	Social Ethics	3	
GD 286	Photography 1	3	
MKT 333	Public Relations	3	
NPS - 101	Negotiation and Problem Solving	3	
PSY 101	Introduction to Psychology	3	
SPD 101	Soft Skills and Personality Development	3	