



## Study Plan

Degree : Bachelor Faculty : Computer & Information Sci Plan Hrs.: 160  
 Semester : 383 Department : Computer Engineering Plan Type : Major  
 Edition : 2 Gender : Male  
 Major : CENN Computer Engineering

Council Session: Deanship Session : Faculty Session : Dept Session:  
 Council Date: Deanship Date: Faculty Date: Dept Date :

## Group Type : Compulsory 1

First							
code	course name	H	G	L	H	requisite	Yrl
ENGS 100	English	6				-	-
ARAB 100	Writing Skills	2				-	-
MATH 101	Differential Calculus	3				-	-
CHEM1 01	General Chemistry (I)	4				-	-
Total							15

Second							
code	course name	H	G	L	H	requisite	Yrl
STAT 101	An Introduction to Probability & Statistics	3				-	-
CT 101	IT Skills	3				-	-
ENT 101	Entrepreneurship	1				-	-
EPH 101	Fitness and Health Education	1				-	-
CI 101	University Skills	3				-	-
ENGS 110	English	6				ENGS 100 - / P	-
Total							17

Third							
code	course name	H	G	L	H	requisite	Yrl
PHYS10 3	GENERAL PHYSICS (1)	4				-	-
MATH10 6	INTEGRAL CALCULUS	3				MATH 101 - / P	-
CSC 111	Computer Programming (1)	4				CT 101 - / P	-
MATH15 1	DISCRETE MATHEMATICS	3				MATH 101 - / P	-
Total							14

Fourth							
code	course name	H	G	L	H	requisite	Yrl
PHYS10 4	GENERAL PHYSICS (2)	4				PHYS103 - / P	-
ENGL 109	Language and Communication	2				ENGS 110 - / P	-

## Group Type : Compulsory 1

Fourth							
code	course name	H	G	L	H	requisite	Yrl
CSC 113	Computer Programming -2-	4				CSC 111 - / P	-
MATH 205	Differential & Integral Calculus	3				MATH106 - / P	-
CENX 211	Digital Logic Design (I)	4				MATH151 - / P	-
Total							17

Fifth							
code	course name	H	G	L	H	requisite	Yrl
ENGL 110	Technical Writing	2				ENGL 109 - / P	-
MATH20 4	DIFFERENTIAL EQUATIONS	3				MATH 205 - / P	-
EE 207	Electric Circuits for Computer Engineering	3				MATH 205 - / P	-
CSC 212	Data Structures	3				CSC 113 - / P	-
CENX 212	Digital Logic Design (II)	4				CENX 211 - / P	-
Total							15

Sixth							
code	course name	H	G	L	H	requisite	Yrl
CSC 227	OPERATING SYSTEMS	3				CSC 212 - / P	-
MATH24 4	Linear Algebra	3				MATH106 - / P	-
EE 310	Microelectronic Devices and Circuits	3				EE 207 - / P	-
EE 312	Basic Electronics Laboratory	1				EE 207 - / P	-
CENX31 6	Computer Architecture & Assembly Languages	3				CENX 212 - / P	-
CENX 351	Signals & Systems	4				EE 207 - / P MATH204 - / P	-
Total							17

Seventh							
code	course name	H	G	L	H	requisite	Yrl

P : Pre-requisite

G : GPA level

H : Requisite HRS

C: Co- requisite MC : Mandetory Co--requisiteNC: None Co- requisite L : Pre-course Level



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Seventh							
code	course name	H	G	L	H	requisite	Yrl
SWE 211	Introduction to Software Engineering	3				CSC 111 - / P	-
CENX 318	Embedded Systems Design	4				CENX316 - / P	-
CENX 341	Data Communication	4				CENX 351 - / P	-
CENX 352	Digital Signal Processing	3				CENX 351 - / P	-
CENX 390	Computer Engineering Seminar	1				ENGL 110 - / P	-
Total							15

## Group Type : Compulsory 1

Ninth							
code	course name	H	G	L	H	requisite	Yrl
492							
Total							8
Tenth							
code	course name	H	G	L	H	requisite	Yrl
CENX 493	Graduation Project (2)	3				CENX 492 - / P	-
Total							3

## Category :

## Group Type : Elective 1 (6)

Eighth							
code	course name	H	G	L	H	requisite	Yrl
CSC 311	DESIGN & ANALYSIS OF ALGORITHMS	3				CSC 212 - / P MATH151 - / P	-
CENX41 5	INTRODUCTION TO VLSI DESIGN	3				CENX 212 - / P EE 310 - / P	-
CENX 441	Computer Networks	4				CENX 341 - / P	-
CENX 453	Digital Control & Robotics	4				CENX 352 - / P MATH244 - / P	-
CENX 479	Practical Training	1			120	-	-
CENX 490	Engineering Design & Project Management	3				CENX316 - / P ENGL 110 - / P	-
Total							18

Ninth							
code	course name	H	G	L	H	requisite	Yrl
IC 107	Professional Ethics	2				IC 100 - / NC IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	-
CENX 442	Computer & Network Security	3				CENX 441 - / P	-
CENX	Graduation Project (1)	3		7	120	CENX 490 - / P	-

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G : GPA level

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Group Type : Elective 1 ( 6 )

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code	course name	H	G	L	H	requisite	Yrl
IC 100	Studies in the prophet biography	2				IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	-
QURN 100	Quran Kareem	2				IC 100 - / NC IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	-
IC 101	Principles of Islamic Culture	2				IC 100 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	-
IC 102	Family in Islam	2				IC 100 - / NC IC 101 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	-
IC 103	Economic System in Islam	2				IC 100 - / NC IC 101 - / NC IC 102 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC	-

code	course name	H	G	L	H	requisite	Yrl
IC 104	Islamic Political System	2				IC 109 - / NC QURN 100 - / NC IC 100 - / NC IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	-
IC 105	Human Rights	2				IC 100 - / NC IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	-
IC 106	Medical Jurisprudence	2				IC 100 - / NC IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	-
IC 108	Current Issues	2				IC 100 - / NC IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 109 - / NC QURN 100 - / NC	-
IC 109	Development Role of Women	2				IC 100 - / NC IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC	-

P : Pre-requisite

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Category :

Group Type : Elective 1 ( 6 )

Group Type : Elective 2 ( 3 )

code	course name	H	G	L	H	requisite	Yrl
						IC 106 - / NC IC 107 - / NC IC 108 - / NC QURN 100 - / NC	
<b>Total</b>							<b>20</b>

Category :

Group Type : Elective 1 ( 12 )

code	course name	H	G	L	H	requisite	Yrl
CENX 402	Introduction to Random Processes	3				CENX 351 - / P MATH244 - / P	-
CENX 413	Computer Architecture (II)	3				CENX316 - / P	-
CENX 414	Programmable Logic Devices	3				CENX 212 - / P	-
CENX416	Introduction to Computer Arithmetic	3				CENX316 - / P	-
CENX 443	Wireless & Sensor Networks	3				CENX 441 - / P	-
CENX445	NETWORK PROTOCOLS & ALGORITHMS	3				CENX 441 - / P	-
CENX 446	Network Design & Management	3				CENX 441 - / P	-
CENX 454	Intelligent Systems	3				CENX 453 - / P	-
CENX459	ROBOTICS	3				CENX 453 - / P	-
CENX 460	Digital Speech Processing	3				CENX 352 - / P	-
CENX 465	Digital Image Processing	3				CENX 352 - / P	-
CENX491	SPECIAL TOPICS IN COMPUTER ENGINEERING	3				CENX 318 - / P CENX 351 - / P CENX 441 - / P	-
<b>Total</b>							<b>36</b>



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Group Type : Elective 2 (3)

Group Type : Elective 2 (3)

code	course name	H	G	L	H	requisite	Yrl
EE 203	Engineering Electromagnetics (1)	3				CENX 341 - / P	-
EE 204	Engineering Electromagnetics (2)	3				CENX 341 - / P	-
IS 230	INTRODUCTION TO DATABASE SYSTEMS	3				CSC 212 - / P	-
SWE 312	Software Requirements Engineering	3				CSC 113 - / P SWE 211 - / P	-
SWE 321	Software Design & Architecture	3				CSC 113 - / P SWE 211 - / P	-
IS 335	DATABASE MANAGEMENT SYSTEMS	3				CSC 212 - / P	-
CSC 361	ARTIFICIAL INTELLIGENCE	3				CSC 212 - / P	-
CSC 380	Fundamentals Of Database Systems	3				CSC 212 - / P	-
IS 385	Enterprise Resource Planning Systems	3				CSC 212 - / P	-
EE 407	Electronic Communication Circuits	3				CENX 341 - / P	-
CSC 412	Simulation and Modeling	3				CSC 111 - / P	-
EE 422	Digital Communications	3				CENX 341 - / P	-
EE 423	WAVE PROPAGATION AND ANTENNAS	3				CENX 341 - / P	-
EE 425	Satellite Communications	3				CENX 341 - / P	-
CSC 429	COMPUTER SECURITY	3				CENX 441 - / P	-
CSC 453	Parallel Processing	3				CSC 227 - / P	-
EE 454	Advanced Control Systems	3				CENX 453 - / P	-
CSC 456	Distributed Systems	3				CENX 441 - / P	-
EE 456	Automatic Control Applications	3				CENX 453 - / P	-
CSC 457	INTERNET TECHNOLOGIES	3				CENX 441 - / P	-
EE 458	Advanced Logic Design	3				CENX 318 - / P	-
CSC 462	Machine Learning	3				CSC 311 - / P	-

code	course name	H	G	L	H	requisite	Yrl
EE 463	Wireless Communications	3				CENX 341 - / P	-
EE 464	Optical Communications	3				CENX 341 - / P	-
SWE 486	Cloud Computing & Big Data	3				CENX 441 - / P	-
Total							75

P : Pre-requisite

G : GPA level

H : Requisite HRS

C: Co- requisite MC : Mandetory Co--requisiteNC: None Co- requisite L : Pre-course Level