

SN	Course Number	Course Code	Course Name	Hours				Prior requirements
				Theoretical	Practical	Training/ Exercises	Accredited	
LEVEL 1	101	CIS	Computer Skills	2	2	0	3	
	001	ENGL	English Language (1)	5	5	10	6	
	101	MTH	Introductory Mathematics	2	0	2	3	
	101	EDU	University Life Skills	2	0	0	2	
Level 2	102	CIS	Problem Solving and Programming	2	2	0	3	CIS 101
	002	ENGL	English Language (2)	5	5	10	6	ENGL 001
	102	MTH	Differential Calculus	2	0	2	3	MTH 101
	103	CHM	Chemistry	2	2	0	3	
Level 3	101	ISL	Fundamentals of Islamic Culture	2	0	0	2	
	100	ARB	Arabic Language Skills	2	0	0	2	
	203	CIS	Computer programming (1)	3	2	0	4	CIS 102
	211	CIS	Discrete Maths	3	0	1	3	MTH 102
	101	PHS	General Physics (1)	3	2	0	4	
	203	MTH	Integral Calculus	2	0	2	3	MTH 102
Level 4	101	CNE	Digital & Logic Design	3	0	1	3	CIS 211
	204	CIS	Computer programming (2)	3	2	0	4	CIS 203
	202	PHS	General Physics (2)	3	2	0	4	PHS 101
	204	MTH	Advanced Calculus	2	0	2	3	MTH 203
	285	MTH	Principles of Linear Algebra	2	0	2	3	MTH 203
Level 5	202	CNE	Advanced Digital & Logic Design	3	0	0	3	CNE 101
	203	CNE	Digital & Logic Design Lab	0	2	0	1	Co-Req CNE 202
	305	MTH	Differential Equations	2	0	2	3	MTH 204
	205	CIS	Data structures	3	2	0	4	CIS 203
	281	MTH	Statistics and Probabilities	2	0	2	3	MTH 203
	262	ELE	Electrical & Electronic Circuits	3	2	1	4	PHS 202
Level 6	107	ISL 107	Professional Ethics	2	0	0	2	---
	321	CIS 321	Software Engineering	3	0	0	3	CIS 204
	322	CIS 322	Concepts of Database Systems	3	2	0	4	CIS 205
	382	MTH 382	Numerical Methods	2	0	2	3	MTH 305
	204	CNE 204	Computer Architecture & Organization	3	0	0	3	CNE 202
	211	CNE 211	Signals and Systems	3	0	1	3	MTH 204
Level 7	342	CIS 342	Operating Systems	3	0	1	3	CIS 205
	305	CNE 305	Microprocessor Systems	3	2	0	4	CNE 204
	312	CNE 312	Data & Computer Communications	3	2	1	4	CNE 211
	313	CNE 313	Computer Networks (1)	3	0	1	3	Co-Req CNE 312
	321	CNE 321	Automatic Control Systems	3	0	1	3	CNE 211
Level 8 (Regular)	102	ARB	Writing Skills	2	0	0	2	ARB 100
	100 or 108 or 109	ISL	Studies in the Biography of the Prophet or Contemporary Issues or The Role of Women in Development	2	0	0	2	
	323	CIS	Software Project Management	3	0	1	3	CIS 322
	307	CNE	Embedded Systems	3	0	0	3	CNE 305
	308	CNE	Embedded Systems Lab	0	2	0	1	Co-Req CNE 307
	314	CNE	Computer Networks (2)	3	0	0	3	CNE 313
	315	CNE	Computer Networks Lab	0	4	0	2	Co-Req CNE 314
322	CNE	Automatic Control Systems Lab	0	2	0	1	CNE 321	
Level 8 (Cooperative)	102	ARB	Writing Skills	2	0	0	2	---
	323	CIS	Software Project Management	3	0	1	3	CIS 322
	307	CNE	Embedded Systems	3	0	0	3	CNE 305
	308	CNE	Embedded Systems Lab	0	2	0	1	Co-Req CNE 307
	314	CNE	Computer Networks (2)	3	0	0	3	CNE 313
	315	CNE	Computer Networks Lab	0	4	0	2	Co-Req CNE 314
	322	CNE	Automatic Control Systems Lab	0	2	0	1	CNE 321
426	CNE	Principles of wireless Communication Networks	3	0	0	3	CNE 313	

Regular	391	CNE	Field Training	-	*	-	1	Finish 110 CH
Cooperative	396	CNE	Begin Cooperative Work	-	**	-	0	Finish 110 CH
Level 9 (Regular)	416	CNE	Principles of wireless Communication Networks	3	0	0	3	CNE 313
	417	CNE	Networks & Information Security	3	0	1	3	CNE 315
	406	CNE	Introduction to VLSI Design	3	0	0	3	ELE 262
			Elective (1)				3	
	492	CNE	Graduation Project (1)	2	0	0	2	Finish 110 CH
Level 9 (Cooperative)	497	CNE	Cooperative Work	-	**	-	7	CNE 396
	492	CNE	Graduation Project (1)	2	0	0	2	Finish 110 CH
Level 10 (Regular)	100 or 108 or 109	ISL	Studies in the Biography of the Prophet or Contemporary Issues or The Role of Women in Development	2	0	0	2	
	102 Or 101	BUS EDU	Entrepreneurship or Volunteer Work	2	0	0	2	
			Elective (2)				3	
			Elective (3)				3	
	493	CNE	Graduation Project (2)	1	4	0	3	CNE 492
Level 10 (Cooperative)	100 or 108 or 109	ISL	Studies in the Biography of the Prophet or Contemporary Issues or The Role of Women in Development	2	0	0	2	
	100 or 108 or 109	ISL	Studies in the Biography of the Prophet or Contemporary Issues or The Role of Women in Development	2	0	0	2	
	102 or 101	BUS EDU	Entrepreneurship or Volunteer Work	2	0	0	2	
	417	CNE	Networks & Information Security	3	0	1	3	CNE 315
			Elective (1)				3	
			Elective (2)				3	
	493	CNE	Graduation Project (2)	1	4	0	3	CNE 492

* Job training distributed over 8 weeks.

** Job training distributed over 24 weeks.

Department Elective Courses (select 12 Credit Hours)

SN	Course Number	Course Code	Course Name	Hours				Prior requirements
				Theoretical	Practical	Training/ Exercises	Accredited	
	CNE	494	Selected topics in Computer Engineering	3	0	0	3	Finish 110 Credit Hours, any departmental prerequisites
	CNE	495	Selected topics in Networks	3	0	0	3	Finish 110 Credit Hours, any departmental prerequisites
	CNE	481	Heterogeneous Networks	3	0	0	3	CNE 313
	CNE	482	Optical Networks	3	0	0	3	CNE 313
	CNE	483	Wireless Sensor Networks	3	0	0	3	CNE 313
	CNE	484	Digital Image Processing	3	0	0	3	CIS 205
	CNE	485	Parallel Architecture Computing	3	0	0	3	CNE 305
	CNE	472	Network Security Practice	2	2	0	3	Co-Req. CNE 417
	CNE	473	Testing of Digital Circuits	2	2	0	3	CNE 203
	CNE	474	Pattern Recognition	2	2	0	3	Finish 90 Credit Hours
	CNE	475	Digital and Fuzzy Control	2	2	0	3	CNE 322
	CNE	476	Modern Sensors	2	2	0	3	Finish 90 Credit Hours
	CNE	477	Digital Design using VHDL	2	2	0	3	CNE 203
	CNE	478	Intelligent Systems and Robotics	2	2	0	3	Finish 90 Credit Hours
	CIS	313	Artificial Intelligence	3	0	0	3	CIS 205
	CIS	414	Design and analysis of Algorithms	3	0	1	3	CIS 205
	CIS	426	Advanced Software Engineering	3	0	0	3	CIS 321
	CIS	434	Cloud Computing	2	2	0	3	Complete 90 credit hours
	CIS	442	Applied Cryptography	2	2	0	3	Complete 90 credit hours
	CIS	462	Natural Language Processing	3	0	0	3	Complete 90 credit hours
	CIS	463	Bioinformatics	2	2	0	3	Complete 90 credit hours
	CIS	465	Expert Systems	3	0	0	3	Complete 90 credit hours

University Elective Courses (select 2 Credit Hours)

SN	Course Number	Course Code	Course Name	Hours				Prior requirements
				Theoretical	Practical	Training/ Exercises	Accredited	
1.	EDU	102	Volunteer Work	2	0	0	2	
2.	BUS	101	Entrepreneurship	2	0	0	2	