

DIPLOMA PROGRAMS
COMPUTER TECHNOLOGY
2014-2015

CURRICULUM FOR DIPLOMA IN COMPUTER TECHNOLOGY

UNIVERSITY OF NIZWA										
Diploma in Computer Technology										
- Credit Hours, L - Credit Lecture, P - Credit Practical										
First Semester					Second Semester					
CODE	COURSE	C	L	P	CODE	COURSE	C	L	P	
Year 1										
MATH 116	Pre Calculus	4	3	1	ENGN101	Introduction to Engineering	2	2	0	
ENGL150	English Language I	3	3	0	MATH 211	Calculus I	4	3	1	
ARAB100	Arabic Language I	3	3	0	ENGL 152	English Language II	3	3	0	
COMP101/L	Computer Skills	3	3	0	ARAB 101	Arabic Language II	3	3	0	
PHYS101/L	General Physics I	4	3	1	PHYS150/L	General Physics II	4	3	1	
		17	15	2			16	14	2	
CODE	COURSE	C	L	P	CODE	COURSE	C	L	P	
Year 2										
COMP151/L	Introduction to Algorithm & Program	4	3	1	MATH312	Differential Equations for Engineers	3	3	0	
ENGL155	Communication Skills	3	3	0	ELEC241	Digital Logic Design	3	3	0	
MATH212	Calculus II	3	3	0	COMP222/L	Object Oriented Programming	3	2	1	
ELEC212	Circuit Analysis I	3	3	0	ENGN103	Engineering Drawings	2	1	1	
HIST150	Islamic Civilization	3	3	0	ELEC221	Electronics I	3	3	0	
					ELEC291	Electrical Circuits Lab	1	0	1	
		16	15	1			15	12	3	
CODE	COURSE	C	L	P	CODE	COURSE	C	L	P	
Year 3										
ELEC341	Microprocessors and Microcontrollers	3	3	0	ELEC443	Computer Architecture and Organization	3	3	0	
ELEC342	Computer Network Technology	2	2	0	ELEC352	Database Management Systems	3	0	0	
ELEC322	Digital Electronics	3	3	0	ELEC444	Computer Interfacing	3	3	0	
COMP255/L	Data Structure & Algorithm Design	3	2	1	ELEC392	Digital Electronics Lab	1	0	1	
ELEC292	Analog Electronics Lab	1	0	1	ELEC482	Microprocessor And Interfacing Lab	1	0	1	
ELEC281	Digital Logic Design lab	1	0	1						
		13	10	3			11	8	3	
Total No. of Credit							88			

List of Courses

No.	Course Code	Course Name	Credit	Pre-Requisite
University Requirements = 21 Credits				
1	ARAB100	Arabic Language I	3(3+0)	None
2	ARAB101	Arabic Language II	3(3+0)	ARAB100
3	ENGL150	English Language I	3(3+0)	None
4	ENGL152	English Language II	3(3+0)	ENGL150
5	COMP101/L	Computer Skills	3(3+0)	CompA & CompB
6	HIST150	Islamic Civilization	3(3+0)	None
7	ENGL155	Communication Skills	3(3+0)	ENGL152
College Requirements = 16Credits				
1	ENGN101	Introduction to Engineering	2(2+0)	MATH116
2	ENGN103	Engineering Drawings	2(1+1)	None
3	MATH116	Pre Calculus	4(3+1)	None
4	MATH211	Calculus I	4(3+1)	MATH 116
5	COMP151/L	Introduction to Algorithm & Program	4(3+1)	COMP101/L

Department Requirement: Core Courses= 51 Credits					
No.	Code	Course	Credit	Pre-Requisite	Co-Requisite
1.	PHYS101/L	General Physics I	4(3+1)	MATH116/L	None
2.	PHYS150/L	General Physics II	4(3+1)	PHYS101/L	None
3.	MATH212/L	Calculus II	3(3+0)	MATH211/L	None
4.	MATH312/L	Differential Equations for Engineers	3(3+0)	MATH212/L	None
5.	COMP222/L	Object Oriented Programming	3(2+1)	COMP151/L	None
6.	COMP255/L	Data Structure and Algorithm Design	3(2+1)	COMP222/L	None
7.	ELEC212	Circuit Analysis I	3(3+0)	PHYS101/L	PHYS150/L
8.	ELEC221	Electronics I	3(3+0)	ELEC212	None
9.	ELEC241	Digital Logic Design	3(3+0)	ELEC212	None
10.	ELEC291	Electrical Circuits Lab	1(0+1)*	ELEC212	None
11.	ELEC292	Analog Electronics Lab	1(0+1)*	ELEC221	None
12.	ELEC281	Digital Logic Design Lab	1(3+0)	ELEC241	None
13.	ELEC341	Microprocessors and Microcontrollers	3(3+0)	ELEC241	None
14.	ELEC322	Digital Electronics	3(3+0)	ELEC221	None
15.	ELEC342	Computer Network Technology	2(2+0)	ELEC241 & COMP222	None
16.	ELEC352	Database Management Systems	3(3+0)	COMP255	None
17.	ELEC392	Digital Electronics Lab	1(0+1)*	ELEC322	None
18.	ELEC444	Computer Interfacing	3(3+0)	ELEC341	None
19.	ELEC443	Computer Architecture and Organization	3(3+0)	ELEC341	None
20.	ELEC482	Microprocessor and Interfacing Lab	1(0+1)	ELEC341	ELEC444