

**DIPLOMA PROGRAM**  
**ELECTRICAL TECHNOLOGY**  
**2014-2015**

# CURRICULUM FOR DIPLOMA IN ELECTRICAL TECHNOLOGY

UNIVERSITY OF NIZWA										
Diploma in Electrical Technology										
C - Credit Hours, L - Credit Lecture, P - Credit Practical										
Fall Semester					Spring Semester					
CODE	COURSE	C	L	P	CODE	COURSE	C	L	P	
<b>Year 1</b>										
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	
PHYS101/L	General Physics I	4	3	1	ARAB 101	Arabic Language II	3	3	0	
					PHYS150/L	General Physics II	4	3	1	
		<b>14</b>	<b>12</b>	<b>1</b>			<b>16</b>	<b>14</b>	<b>2</b>	
<b>CODE</b>	<b>COURSE</b>	<b>C</b>	<b>L</b>	<b>P</b>	<b>CODE</b>	<b>COURSE</b>	<b>C</b>	<b>L</b>	<b>P</b>	
<b>Year 2</b>										
ENGN103	Engineering Drawing	2	1	1	MATH312	Differential Equations for Engineers	3	3	0	
ENGL155	Communication Skills	3	3	0	COMP151/L	Introduction to Algorithm & Program	4	3	1	
MATH212	Calculus II	3	3	0	ELEC241	Digital Logic Design	3	3	0	
ELEC212	Circuit Analysis I	3	3	0	ELEC213	Circuit Analysis II	3	3	0	
COMP101/L	Computer Skills	3	3	0	ELEC221	Electronics I	3	3	0	
					ELEC291	Electrical Circuits Lab	1	0	1	
		<b>14</b>	<b>13</b>	<b>1</b>			<b>17</b>	<b>15</b>	<b>2</b>	
<b>Year 3</b>										
ELEC321	Electronics II	3	3	0	ELEC341	Microprocessors and Microcontrollers	3	3	0	
ELEC331	Signals & Systems	3	3	0	ELEC316	Power System Technology	3	3	0	
ELEC311	Measurements and Instrumentation	3	3	0	ELEC317	Electrical Drives Technology	3	3	0	
ELEC281	Digital Logic Design Lab	1	0	1	ELEC392	Measurement and Instrumentation Lab	1	0	1	
ELEC292	Analog Electronics Lab	1	0	1	HIST150	Islamic Civilization	3	3	0	
ELEC312	Electromagnetic Theory	3	0	0						
		<b>14</b>	<b>9</b>	<b>3</b>			<b>13</b>	<b>12</b>	<b>1</b>	
<b>Total No. of Credit</b>							<b>88</b>			

## List of Courses

No.	Course Code	Course Name	Credit	Pre-Requisite
<b>University Requirements = 21 Credits</b>				
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
<b>College Requirements = 16Credits</b>				
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

<b>Department Requirement: Core Courses= 51Credits</b>					
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.	ELEC212	Circuit Analysis I	3(3+0)	PHYS101/L	PHYS150/L
6.	ELEC213	Circuit Analysis II	3(3+0)	ELEC212	None
7.	ELEC221	Electronics I	3(3+0)	ELEC212	None
8.	ELEC241	Digital Logic Design	3(3+0)	ELEC212	None
9.	ELEC291	Electrical Circuits Lab	1(0+1)*	ELEC212	None
10.	ELEC281	Digital Logic Design Lab	1(0+1)*	ELEC241	None
11.	ELEC292	Analog Electronics Lab	1(0+1)*	ELEC221	None
12.	ELEC331	Signals & Systems	3(3+0)	ELEC212	None
13.	ELEC321	Electronics II	3(3+0)	ELEC221	None
14.	ELEC311	Measurements and Instrumentation	3(3+0)	ELEC221	None
15.	ELEC341	Microprocessors & Microcontrollers	3(3+0)	ELEC241	None
16.	ELEC392	Measurement and Instrumentation Lab	1(0+1)*	ELEC311	None
17.	ELEC316	Power System Technology	3(3+0)	ELEC331	None
18.	ELEC317	Electrical Drives Technology	3(3+0)	ELEC331	None
19.	ELEC312	Electromagnetic Theory	3(3+0)	ELEC213, MATH312/L	None