



جامعة نِزْوَى
University of Nizwa

COLLEGE OF ENGINEERING AND ARCHITECTURE
Department of Electrical and Computer Engineering

Diploma of Electrical Technology

Study Plan and Degree Plan

2023-2024



UNIVERSITY OF NIZWA
Department of Electrical and Computer Engineering
Diploma in Electrical Technology
Study Plan 2023 2024

C – Credit Hours, L –Lecture Contact Hours, P - Practical Contact Hours

Fall Semester					Spring Semester				
CODE	COURSE	C	L	P	CODE	COURSE	C	L	P
Year 1									
MATH 116	Pre-Calculus	4	3	2	ENGN101	Introduction to Engineering	2	2	0
ENGL150	English Language I	3	3	0	MATH 211	Calculus I	4	3	2
ARAB100	Arabic Language I	3	3	0	ENGL 152	English Language II	3	3	0
PHYS101/L	General Physics I	4	3	2	ARAB 101	Arabic Language II	3	3	0
					PHYS150/L	General Physics II	4	3	2
		14	12	4			16	14	4
CODE	COURSE	C	L	P	CODE	COURSE	C	L	P
Year 2									
ENGN103	Engineering Drawing	2	1	2	MATH312	Differential Equations for Engineers	3	3	0
HIST150	Islamic Civilization	3	3	0	COMP151/L	Introduction to Algorithm & Program	4	3	2
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	2
		14	12	4			17	15	4
Year 3									
ELEC321	Electronics II	3	3	0	ELEC341	Microprocessors and Microcontrollers	3	3	0
ELEC331	Signals and 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	2	ELEC392	Measurement and Instrumentation Lab	1	0	2
ELEC292	Analog Electronics Lab	1	0	2					
ELEC312	Electromagnetic Theory	3	0	0	MNGT100/L	Entrepreneurship Creativity and Innovation	3	2	2
		14	9	4			13	12	2
Total No. of Credit							88		



Degree Plan for Diploma in Electrical Technology

Minimum No. of Credits for the Degree Plan = 88 Credits					
University Requirements = 21 Credits					
Course Code	Course Name	Credit Hours	Contact Hours		Pre-requisites/ Co-requisites
			Theory	Practical	
ARAB100	Arabic Language I	3	3	0	-
ARAB101	Arabic Language II	3	3	0	ARAB100
COMP101/L	Computer Skills	3	2	2	COMP-A, COMP-B (Digital Literacy)
ENGL150	English Language I	3	3	0	-
ENGL152	English Language II	3	3	0	ENGL150
MNGT100/L	Entrepreneurship Creativity and Innovation	3	2	2	-
HIST150	Islamic Civilization	3	3	0	-
College Requirements = 16 Credits					
ENGN101	Introduction to Engineering	2	2	0	MATH116
COMP151/L	Introduction to Algorithm & Program	4	3	2	COMP101/L
ENGN103	Engineering Drawing	2	1	2	-
MATH116	Pre-Calculus	4	4	0	-
MATH211	Calculus I	4	3	2	MATH116
Department Requirements = 51 Credits					
Course Code	Course Name	Credit Hours	Contact Hours		Pre-requisites/ Co-requisites
			Theory	Practical	
PHYS101/L	General Physics I	4	3	2	MATH116/L
PHYS150/L	General Physics II	4	3	2	PHYS101/L
MATH212/L	Calculus II	3	3	0	MATH211/L
MATH312/L	Differential Equations for Engineers	3	3	0	MATH212/L
ELEC212	Circuit Analysis I	3	3	0	PHYS101L / co: ENGN101, PHYS150L



ELEC213	Circuit Analysis II	3	3	0	ELEC212
ELEC221	Electronics I	3	3	0	ELEC212
ELEC241	Digital Logic Design	3	3	0	ELEC212
ELEC291	Electrical Circuits Lab	1	0	2	ELEC212
ELEC281	Digital Logic Design Lab	1	0	2	ELEC241
ELEC292	Analog Electronics Lab	1	0	2	ELEC221
ELEC331	Signals and Systems	3	3	0	ELEC213
ELEC321	Electronics II	3	3	0	ELEC221
ELEC311	Measurements and Instrumentation	3	3	0	ELEC221
ELEC341	Microprocessors & Microcontrollers	3	3	0	ELEC241
ELEC393	Measurement and Instrumentation Lab	1	0	2	ELEC213
ELEC316	Power System Technology	3	3	0	ELEC331
ELEC317	Electrical Drives Technology	3	3	0	ELEC331
ELEC312	Electromagnetic Theory	3	3	0	ELEC213, MATH312/L