COLLEGE OF ENGINEERING AND ARCHITECTURE
Department of Electrical and Computer Engineering

Diploma of Computer Technology

Study Plan and Degree Plan
2023-2024

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

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

First Semester					Second 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
COMP101/L	Computer Skills	3	3	0	ARAB 101	Arabic Language II	3	3	0
PHYS101/L	General Physics I	4	3	2	PHYS150/L	General Physics II	4	3	2
		17	**15**	**4**			**16**	**14**	**4**
CODE	**COURSE**	**C**	**L**	**P**	**CODE**	**COURSE**	**C**	**L**	**P**
Year 2									
COMP151/L	Introduction to Algorithm & Program	4	3	2	MATH312/L	Differential equation for engineers	3	3	0
HIST150	Islamic Civilization	3	3	0	ELEC241	Digital Logic Design	3	3	0
MATH212	Calculus II	3	3	0	COMP222/L	Object Oriented Programming	3	2	2
ELEC212	Circuit Analysis I	3	3	0	ENGN103	Engineering Drawings	2	1	2
					ELEC221	Electronics I	3	3	0
					ELEC291	Electrical Circuits Lab	1	0	2
		13	**12**	**2**			**15**	**12**	**6**
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	2	ELEC392	Digital Electronics Lab	1	0	2
ELEC292	Analog Electronics Lab	1	0	2	ELEC482	Microprocessor And Interfacing Lab	1	0	2
ELEC281	Digital Logic Design lab	1	0	2	MNGT100/L	Entrepreneurship Creativity and Innovation	3	2	2
		13	**10**	**6**			**14**	**8**	**6**

Total No. of Credit	88

Degree Plan for Diploma in Computer Technology 2023/2024

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
HIST150	Islamic Civilization	3	3	0	-
MNGT100/L	Entrepreneurship Creativity and Innovation	3	2	2	-
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 Equation for Engineers	3	3	0	MATH212/L
COMP222/L	Object Oriented Programming	3	2	2	COMP151/L
COMP255/L	Data Structure and Algorithm Design	3	2	2	COMP222/L
ELEC212	Circuit Analysis I	3	3	0	PHYS101L / co: ENGN101, PHYS150L
ELEC221	Electronics I	3	3	0	ELEC212
ELEC241	Digital Logic Design	3	3	0	ELEC212
ELEC291	Electrical Circuits Lab	1	0	2	ELEC212
ELEC292	Analog Electronics Lab	1	0	2	ELEC221
ELEC281	Digital Logic Design Lab	1	0	2	ELEC241

ELEC341	Microprocessors and Microcontrollers	3	3	0	ELEC241
ELEC322	Digital Electronics	3	3	0	ELEC221
ELEC342	Computer Network Technology	2	2	0	ELEC241 & COMP222
ELEC352	Database Management Systems	3	3	0	COMP255
ELEC392	Digital Electronics Lab	1	0	2	ELEC322
ELEC444	Computer Interfacing	3	3	0	ELEC341
ELEC443	Computer Architecture and Organization	3	3	0	ELEC341
ELEC482	Microprocessor and Interfacing Lab	1	0	2	ELEC341/ co: ELEC444