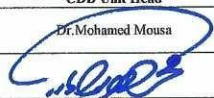
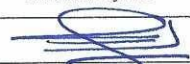




Study Plan 2023-24
Bachelor of Science in Electrical Engineering
DEPARTMENT OF ELECTRICAL ENGINEERING



1st Year / 1st Sem								1st Year / 2nd Sem							
Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite	Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite
CHEM	101	General Chemistry I	3	3	4			PHY	102	General Physics II	3	3	4	MA 102	PHY 101
PHY	101	General Physics I	3	3	4	MA 101		MA	102	Calculus II	4	0	4		MA 101
MA	101	Calculus I	4	0	4			ESP	102	Introduction to Report Writing	3	0	3		ESP 101
ESP	101	Introduction to Academic Discourse	3	0	3			ARB	102	Objective Writing	2	0	2		ARB 101
ARB	101	Practical Grammar	2	0	2			ISL	101	Belief and Its Consequences	2	0	2		
PE	101	Health and Physical Education	1	0	1			CSE	101	Introduction to Programming	1	3	2		
			16	6	18						15	6	17		
2nd Year / 1st Sem								2nd Year / 2nd Sem							
Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite	Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite
MA	201	Calculus III	3	0	3		MA 102	MA	203	Elements of Differential Equations	3	0	3		MA 102
MA	202	Probability and Statistics for Engineers	3	0	3		MA 102	CSE	201	Introduction to Data Science	3	0	3		CSE 101, MA 202
ESP	201	Academic and Professional Communication	3	0	3		ESP 102	ARB	201	Literary Styles	2	0	2		ARB 102
ISL	201	Professional Ethics	2	0	2		ISL 101	EE	202	Electronics I	3	0	3		EE 201, CSE 221
CSE	221	Digital Logic Design	3	0	3		PHY 102	EE	203	Electronics I Lab	0	3	1	EE 202	
EE	201	Electrical Circuits I	3	0	3		PHY 102, MA 102	EE	204	Signals and Systems	3	0	3		EE 201
								EE	205	Electric Circuits II	2	0	2		EE 201
								EE	206	Electric Circuits II Lab	0	3	1	EE 205	
			17	0	17						16	6	18		
3rd Year / 1st Sem								3rd Year / 2nd Sem							
Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite	Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite
CSE	301	Introduction to Artificial Intelligence	3	0	3		CSE 201	MA	301	Numerical Methods for Engineers	3	0	3		CSE 101, MA 201
ISL	301	Human Right in Islam	2	0	2		ISL 201	MS	301	Business and Entrepreneurship	2	0	2		ESP 201
PHY	321	Electricity and Magnetism	3	0	3		MA 201, MA 203, PHY 102	EE	306	Fundamentals of Electrical Engineering Design	3	0	3		EE 202
EE	301	Electronics II	3	0	3		EE 202	EE	307	Communications Engineering	3	0	3		EE 202
EE	302	Electrical Energy Engineering	3	0	3		EE 205	EE	308	Communications Engineering Lab	0	3	1	EE 307	
EE	303	Electrical Energy Engineering Lab	0	3	1	EE 302		EE	309	Digital Systems Engineering	3	0	3		CSE 101, CSE 221
EE	304	Control Engineering	3	0	3		EE 204	EE	310	Digital Systems Engineering Lab	0	3	1	EE 309	
EE	305	Control Engineering Lab	0	3	1	EE 304		EE	300	Design Project I	1	3	2		ESP 201, EE 301, EE 302, EE 304
			17	6	19						15	9	18		
4th Year / 1st Sem								4th Year / 2nd Sem							
Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite	Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite
EE	401	Electromagnetic Waves and Applications	3	0	3		PHY 321	EE	490	Internship	0	0	6		122 Credits Completion
EE	402	Electromagnetic Waves and Applications Lab	0	3	1	EE 401									
EE	4xx	Electrical Engineering Elective I	3	0	3		EE 300								
EE	4xx	Electrical Engineering Elective II	3	0	3		EE 300								
EE	4xx	Electrical Engineering Elective III	3	0	3		EE 300								
EE	400	Design Project II	1	3	2		MS 301, EE 306, EE 300								
			13	6	15						0	0	6		
Electives								Electives							
Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite	Course	Code	Course Title	TH	LH	CH	Co- requisite	Pre-requisite
EE	403	Digital Image Processing	3	0	3		EE 300	EE	408	Power System Analysis	3	0	3		EE 300
EE	404	Introduction to Nanotechnology	3	0	3		EE 300	EE	409	Modeling of Electric Machines	3	0	3		EE 300
EE	405	System-on Chip (SoC) Design	3	0	3		EE 300	EE	410	Power Electronics	3	0	3		EE 300
EE	406	Distributed Control System and SCADA	3	0	3		EE 300	EE	411	Power System Planning and Operation	3	0	3		EE 300
EE	407	Industrial Communication Systems	3	0	3		EE 300	EE	412	Renewable Energy	3	0	3		EE 300
		Head of Department	CDD Unit Head		DMD Academic Affairs		Managing Director (MD)		College Council						
Name		Dr. Ayman Alhejji	Dr. Mohamed Mousa		Dr. Mansour Aljohani		Dr. Raed Althomali								
Signature															
Date		21/6/2023	21/6/2023		21-6-2023		21/6/2023								

