Ministry of Higher Education and Scientific Research University of Mosul College of Engineering Department of Electrical Engineering









Courses Description Department of Electrical Engineering Electronic and Communications 2020-2021

a) Undergraduate

Courses / College of Engineering / University of Mosul / First level for the academic year 2020-2021 / Department of Electrical Engineering

	Fall Semester / First Level										
Notes	Code	Pre- request	Units	Practical hours	Theoretical hours						
	UOMC101	-	3	-	3	English Language	Compulsory				
	UOMC102	1	3	2	2	Computer	Compulsory	University requirements			
	UOMC103	-	2	-	2	Rights and Freedoms Compulsory					
	ENGC121	-	3	-	3	Calculus I	Compulsory				
	ENGC123	1	1	3	1	Engineering Drawings	Compulsory	College requirements			
Compulsory for Dept. Students	ENGE133	-	2	-	2	Physics	Elective				
	ELCA100	1	4	2	3	Electrical Circuit Analysis I	Compulsory	Department requirements			
			18	7	15	Tota					

	1		Sprin	g Semester / Fi	rst Level				
Notes	Code	Pre-request	Units	Practical hours	Theoretical hours	Subject	Туре		
	UOMC 100	-	2	-	2	Arabic Language	Compulsory		
The student should select one subject only (no. of units =2 only)	-	-				Manufacturing Processes	Elective	University requirements	
		-	2	-	2	Environmental Pollution	Elective		
	-	-				Information Technology	Elective		
	ENGC122	Calculus I	3	-	3	Calculus II	Compulsory		
	ENGC124	Engineering Drawing	1	3	-	Auto-CAD	Compulsory	College requirements	
Compulsory for Dept. Students	ENGE132	-	3	-	3	Engineering Mechanics	Elective		
	ELCA 150	Electrical Circuit Analysis I	4	2	3	Electrical Circuit Analysis II	Compulsory	Department requirements	
	PHEC151	Physics	3	-	3	Electronic Physics	Compulsory	requirements	
			18	5	16	Total I	Hours		

Courses / College of Engineering / University of Mosul / Second Level for the academic year 2020-2021 / Department of Electrical Engineering

	Fall Semester / Second Level – E&C											
Notes	Code	Pre- request	Units	Practical hours	Theoretical hours	Subject Type						
English Subject in this level equal 1 unit because it was 3 units in first level	The name will be standardized by the course unit/college	-	1	-	1	English Language- Pre intermediate	Compulsory	University requirements				
Compulsory for Dept. Students	ENGE228	Calculus II	3	-	3	Engineering Mathematics I	Elective	College requirements				
	ACOM201	Electrical Circuit Analysis II, Calculus II	4	-	4	Analog Communications	Compulsory	Department requirements				
	ENET202	Electrical Circuit Analysis II, Calculus II	4	-	4	Electric Networks	Compulsory					
	COMP206	Computer	3	2	2	Computer Programming	Compulsory					
	ELAB210	Electrical Circuit Analysis II	1	2	-	Electrical Engineering Lab I	Compulsory					
The student should select one subject	SOC 203	Physics of Electronics	2		2	Solar Cell Systems	Elective					
only (no. of units =2 only)	ELCI214	Physics of Electronics	2	-	2	Electronic Circuits	Elective					
			18	4	16	Total Ho	urs					

Notes	Code	Pre-request	Units	Practical hours	Theoretical hours	Subject	Туре				
Compulsory for Dept. Students	ENGE 230	Calculus I	3	-	3	Engineering Mathematics II	Elective	College requirements			
	PHEC 251	Physics of Electronics	3	-	3	Analog Electronics	Compulsory				
	SIGS 252	Electrical Circuit ,Analysis I Calculus II	2	-	2	Systems & Signals	Compulsory				
	EMGT 254	Electrical Circuit ,Analysis II Calculus I	3	-	3	Electromagnetic Theory	Compulsory				
	MAPS 253	Electrical Circuit ,Analysis II Calculus II	2	-	2	& Machines Power Systems	Compulsory	Department requirements			
	DIGT208	-	2	-	2	Digital Techniques	Compulsory				
	ELAB 260	Electrical Engineering Lab I	1	2	-	Electrical Engineering Lab II	Compulsory				
The student should select one subject only (no. of units	MODS 262	Computer Programming	2	2	1	Basics of Modeling and Simulation	Elective				
=2 only)	COAP 264	Computer Programming				Computer Applications					
			18	4	16	Total H	ours				

Annual / College of Engineering / University of Mosul / Third Class for the academic year 2020-2021 / Department of Electrical Engineering

Course No.	Subject	Fi	rst Terr	n	Se	cond Te	Units No.		
0002001.00	~ #Sjeet		Pract.	App	Theo.	Pract.	App.	Omis ivo.	
EEC 301	Statistics & Engineering Economics	2	-	-	2	-	-	4	
EEC 302	Engineering Analysis	2	-	1	2	-	1	4	
EEC 303	Radiation & Propagation	2	-	1	2	-	1	4	
EEC 304	Digital Communications	3	-	1	3	-	1	6	
EEC 305	Electronics II	2	-	1	2	-	1	4	
EEC 306	Digital Electronics	2	-	1	2	-	1	4	
EEC 307	Computer Engineering	2	-	1	2	-	1	4	
EEC 308	Elective Subjects (Measurements)	2	-	1	2	-	1	4	
EEC 309	Electronics & Communications Lab.	-	6	-	-	6	-	4	
	Total			6	7	17	6	7	
			29			30		30	

Note: The student is required to complete the summer training after the end of the second semester of the third level

Annual / College of Engineering / University of Mosul / Fourth class for the academic year 2020-2021 / Department of Electrical Engineering

Course No.	Subject	F	irst Tern	n		Units		
Course 140.	Subject	Theo.	Pract.	App.	Theo.	Pract.	Арр.	No.
EEC 401	Engineering Project	1	3	ı	1	3	-	4
EEC 402	Engineering Control	3	-	1	3	-	1	6
EEC 403	Communication Engineering	3	-	-	3	1	-	6
EEC 404	Digital Signal Processing (DSP)	2	-	1	2	ı	1	4
EEC 405	Microelectronic	2	-	1	2	-	1	4
EEC 406	Computer Networks	2	-	1	2	-	1	4
EEC 407	Elective Subjects (Computer interfacing systems)	2	-	-	2	-	-	4
EEC 408	Laboratories	-	6	1	1	6	-	4
Total			9	4	15	9	4	36
	28				28	8		