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









Courses Description Department of Electrical Engineering Power and Machines 2018-2019

Academic Program Description form

University Name: University of Mosul

Faculty / Institute: College of Engineering

Scientific Department: Electrical Engineering

Academic or Professional Program Name: B.Sc. Electrical Engineering / Electronics and Communication B.Sc. Electrical Engineering / Power and Machines

Final Certificate Name: B.Sc. in Electrical Engineering

Academic System: Courses System + Bologna Process

Description Preparation Date: March, 2024

File Completion Date: March, 2024

Signat	ure:
Head o	of Department Name:
	hammad Tarig Yaseen
Date:	March, 2024
	Dept. Of Electrical Eng-

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Signature:	yn	TE

Scientific Associate Name:

Dr. Ayman T.Hameed

Date: March, 2024

The file is checked by: Department of Quality Assurance and University Performance

Director of Quality Assurance and University Performance Department:

Date:

Signature:



a) Undergraduate

Annual/ College of Engineering / University of Mosul / First class for the academic year 2018-2019 / Department of Electrical Engineering

Course No.	Subject -	First Term			Se	cond Ter	Units No.	
Course 140.		Theo.	Pract.	App	Theo.	Pract.	App.	Units No.
EE 101	Human Rights and Democracy	1	-	-	1	-	-	2
EE102	Digital Techniques	2	-	1	2	-	1	4
EE 103	Engineering Drawing	-	3	-	-	3	-	2
EE 104	Computer Science	2	2	-	2	2	-	6
EE 105	Principle of Mechanical Eng.	3	-	-	3	-	-	6
EE 106	Mathematics	3	-	1	3	-	1	6
EE 107	Electronics Physics	2	-	1	2	-	1	4
EE 108	Basics of Electrical Eng.	3	-	1	3	-	1	6
EE 109	Laboratories	-	3	-	-	3	-	2
EE 110		1	-	-	1	-	-	
	Total		17	8	4	17	8	4
			29	-		29		

Annual/ College of Engineering / University of Mosul / Second class for the academic year 2018-2019 / Department of Electrical Engineering / Power & Machines

Course No.	Subject -	Fi	First Term			cond Te	erm	Units No.
		Theo.	Pract.	App.	Theo.	Pract.	App.	Units No.
EEP 201	Management & Industrial Safety	2	-	-	2	-	-	4
EEP 202	Mathematics II	3	-	1	3	-	1	6
EEP 203	Computer Programming	2	2	-	2	2	-	6
EEP 204	Electronics I	2	-	1	2	-	1	4
EEP 205	Electric Networks	2	-	1	2	-	1	4
EEP 206	Electrical Machines	2	-	1	2	-	1	6
EEP 207	Electromagnetic Fields	2	-	1	2	-	1	4
EEP 208	Laboratories	-	3	-	-	3	-	2
EEP 209	Elective Subjects (Distribution Systems)	2	-	-	2	-	-	4
	Total		18	5	5	18	5	5
			28			28		

Annual/ College of Engineering / University of Mosul / Third class for the academic year 2018-2019 / Department of Electrical Engineering / Power & Machines

Course No.	Subject	First Term			See	cond Te	erm	Units No.
Course 110.	Bubjeet	Theo.	Pract.	App.	Theo.	Pract.	App.	Units No.
EEP 301	Statistics & Engineering Economics	2	-	-	2	-	-	4
EEP 302	Engineering Analysis	2	I	1	2	-	1	4
EEP 303	Power Electronics	3	-	1	3	-	1	б
EEP 304	Electrical Machines	2	-	1	2	-	1	4
EEP 305	Electrical Powers	2	-	1	2	-	1	4
EEP 306	Measurements	2	-	1	2	-	1	4
EEP 307	Electronic and Communication System	2	-	1	2	-	1	4
EEP 308	Elective Subjects. (Microprocessor and Interfacing Systems)	2	-	-	2	-	-	4
EEP 309	Power & Machines Lab.	-	6	-	-	6	-	4
	Total		6	6	17	6	6	38
			29			29		

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 2018-2019 / Department of Electrical Engineering / Power & Machines

Course No.	Subject	First Term			Second Term			Units No.
		Theo.	Pract	App.	Theo	Pract	App.	Units NO.
EEP 401	Power System Analysis	2	-	2	2	-	2	4
EEP402	Protection & Operation of PS	2	-	1	2	1	1	4
EEP 403	Advanced Electrical Machines	3	-	1	3	-	1	6
EEP 404	High Voltage Systems	2	-	-	2	-	-	4
EEP 405	Final Year Project	1	3	-	1	3	-	4
EEP 406	Power & Machines Lab.	-	6	-	-	6	-	4
EEP 407	Control Engineering	3	-	1	3	-	1	6
EEP 408	(Generation Systems) Elective Subjects	2	-	-	2	-	-	4
Total		15	9	5	15	9	5	36
			29			29		

b) Postgraduate

	Subject	Туре	Hours	Units	Code
	Antennas and Wave (Elective)	Semesters	2	2	EEE644
[Microelectronics (Elective)	Semesters	2	2	EEE 653
[Digital Signal Processing (Compulsory)	Semesters	2	2	EEE652
[Engineering Analysis (Compulsory)	Semesters	2	2	EEE 640
[Modern Control Theory (Compulsory)	Semesters	2	2	EEE 647
Γ	Modeling and Simulation(Compulsory)	Semesters	2	2	EEP 670
Γ	Power Electronics (Compulsory)	Semesters	2	2	EEP 667
	A.C. Machines (Elective)	Semesters	2	2	EEP669
Master	Power System Analysis (Elective)	Semesters	2	2	EEP683
Mas	Antennas and Wave (Elective)	Semesters	2	2	EEE646
	Microwave Devices (Elective)	Semesters	2	2	
Γ	Computer Networks (Elective)	Semesters	2	2	EEE661
	Programmable Controllers(Compulsory)	Semesters	2	2	EEE680
Γ	English Language II (Compulsory)	Semesters	2	2	
Γ	Scientific Research Methods (Compulsory)	Semesters	1	1	EEE 690
Γ	Electrical Drive (Elective)	Semesters	2	2	EEP 672
Γ	Advanced High Voltage (Elective)	Semesters	2	2	EEP 671
	Power System Protection (Elective)	Semesters	2	2	

	Subject	Туре	Hours	Units	Code
	Advanced Communication Systems (Elective)	Semesters	2	2	EED709
	CMOS Integrated Circuits (Elective)	Semesters	2	2	
	Advanced Antenna Theory (Elective)	Semesters	2	2	EED708
	Advanced Control Systems (Compulsory)	Semesters	2	2	EED710
	Advanced DSP (Compulsory)	Semesters	2	2	
	Advanced Topics in Electrical (Compulsory)	Semesters	2	2	EED720
	Advanced Electrical Drives (Elective)	Semesters	2	2	EED714
	Flexible A C Transmission System (FACTS) (Elective)	Semesters	2	2	EED706
	Power Systems Stability (Elective)	Semesters	2	2	EED712
DhD	Wave Propagation (Elective)	Semesters	2	2	EED718
H	Computer Network Security (Elective)	Semesters	2	2	EED717
	Advanced Microprocessors (Elective)	Semesters	2	2	
	English Language II (Compulsory)	Semesters	2	2	
	Research Methodology (Compulsory)	Semesters	1	1	
	& Advanced Modeling Simulation (Compulsory)	Semesters	2	2	EED701
	Smart Grids and Renewable Energy (Compulsory)	Semesters	2	2	EED711
	Advanced Alternating Machines (Elective)	Semesters	2	2	EE768
	Advanced High Voltage DC (Elective)	Semesters	2	2	
	: Modern Protection Systems (Elective)		2	2	EED704

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