

Degree Plan

Degree : Bachelor

Faculty : College of Engineering in Al-I

Plan hrs : 170

Semester : 451

Dept : Electrical Engineering

Plan Type : Minor

Edition : 7

Major : EE74 Electrical Engineering

Gender : Male

Minor : eepw74 Electrical Power Engineering

Group : إجبارية (147)

First					
code	Course Name	Hr.	requisite	Year	Activities Desc
CHS 101	HEALTH AND FITNESS	2	-	-	lecture (2)
PHYS 107	INTRODUCTION TO PHYSICS 1	3	-	-	lecture (2), practical (2)
ENGL 109	ENGLISH LANGUAGE 1	6	-	-	(2), lecture (2), practical (8)
CT 130	COMPUTER SKILLS	3	-	-	lecture (2), practical (2)
MATH130	INTRODUCTION TO MATHEMATICS	3	-	-	lecture (2), training (2)
Total					17

Second					
RAD 101	ENTREPRENEURSHIP	2	-	-	lecture (2)
ACT 105	ACADEMIC AND LIFE SKILLS	3	-	-	lecture (2), practical (2)
ENGL 110	ENGLISH LANGUAGE 2	4	-	-	(3), lecture (2), practical (4), (3)
ENGL 128	ENGLISH LANGUAGE FOR ENGINEERING PURPOSES	2	-	-	lecture (1), practical (2)
MATH 135	MATHEMATICS 2	4	-	-	lecture (2), training (4)
Total					15

Third					
IC 101	INTRODUCTION TO ISLAMIC CULTURE	2	-	-	lecture (2)
CHEM101	GENERAL CHEMISTRY I	4	-	-	lecture (3), practical (2), exercise (1)
PHYS103	GENERAL PHYSICS 1	4	-	-	lecture (3), practical (2), exercise (1)
MATH105	DIFFERENTIAL CALCULUS	3	-	-	lecture (3), exercise (1)
GE 106	INTRODUCTION TO ENGINEERING	2	-	-	lecture (1), practical (2)
GE 212	COMPUTER PROGRAMMING	3	-	-	lecture (2), practical (2)
Total					18

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Forth

code	Course Name	Hr.	requisite	Year	Activities Desc
ARAB101	LANGUAGE SKILLS	2	-	-	lecture (2)
PHYS104	GENERAL PHYSICS 2	4	PHYS103 - S	-	lecture (3), practical (2), exercise (1)
MATH 106	INTEGRAL CALCULUS	3	MATH105 - S	-	lecture (3), exercise (1)
MATH 107	VECTORS AND MATRICES	3	MATH105 - S	-	lecture (3), exercise (1)
GE 107	ENGINEERING DRAWING AND DESIGN	3	-	-	lecture (1), practical (4)
ENGL 116	WRITING IN ENGLISH	3	-	-	lecture (3)
Total					18

Fifth

ENGL 107	TECHNICAL EDITING	3	-	-	lecture (3)
EE 201	FUNDAMENTALS OF POWER SYSTEMS	3	PHYS104 - S MATH 106 - S	-	lecture (3), exercise (1)
MATH 203	CALCULUS	3	MATH 106 - S MATH 107 - S	-	lecture (3), exercise (1)
EE 205	ELECTRIC CIRCUIT LABORATORY	1	EE 201 - M	-	practical (2)
EE 208	LOGIC DESIGN	3	-	-	lecture (3), exercise (1)
EE 210	LOGIC DESIGN LABORATORY	1	EE 208 - M	-	practical (2)
EE 213	ENGINEERING ELECTROMAGNETICS 1	3	PHYS104 - S MATH 203 - M	-	lecture (3), exercise (1)
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Sixth

code	Course Name	Hr.	requisite	Year	Activities Desc
IC 102	ISLAM AND THE BUILDING OF COMMUNITY	2	-	-	lecture (2)
IC 103	THE ISLAMIC ECONOMIC SYSTEM	2	-	-	lecture (2)
MATH204	DIFFERENTIAL EQUATIONS	3	MATH 203 - S	-	lecture (3), exercise (1)
EE 212	ELECTRONIC CIRCUITS ANALYSIS	2	MATH 107 - S EE 201 - S	-	lecture (2), exercise (1)
EE 215	ENGINEERING ELECTROMAGNETICS 2	3	EE 213 - S	-	lecture (3), exercise (1)
MATH 254	NUMERICAL METHODS	3	MATH 107 - S GE 212 - S	-	lecture (3), exercise (1)
EE 353	INTRODUCTION TO MICROPROCESSORS	3	EE 208 - S	-	lecture (2), practical (2), exercise (1)
Total					18

Seventh

ARAB103	ARABIC EDITING	2	-	-	lecture (2)
IC 104	BASICS OF ISLAMIC POLITICAL SYSTEM	2	-	-	lecture (2)
EE 301	SIGNALS AND SYSTEMS ANALYSIS	3	EE 212 - S	-	lecture (3), exercise (1)
EE 309	ELECTRONICS 1	3	EE 212 - S	-	lecture (3), exercise (1)
EE 312	BASIC ELECTRONICS LABORATORY	1	EE 309 - M	-	practical (2)
STAT324	PROBABILITY AND ENGINEERING STATISTICS	3	MATH 106 - S	-	lecture (3), exercise (1)
EE 340	FUNDAMENTALS OF POWER SYSTEMS	3	EE 212 - S	-	lecture (3), exercise (1)
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Eighth

code	Course Name	Hr.	requisite	Year	Activities Desc
EE 314	MEASUREMENTS AND INSTRUMENTATIONS	3	EE 212 - S	-	lecture (3), exercise (1)
EE 318	INDUSTRIAL ELECTRONICS	2	EE 309 - S	-	lecture (2), exercise (1)
EE 320	COMMUNICATIONS PRINCIPLES	3	EE 301 - S	-	lecture (3), exercise (1)
EE 330	ELECTROMECHANICAL ENERGY CONVERSION I	3	EE 213 - S EE 212 - S	-	lecture (3), exercise (1)
EE 331	ELECTROMECHANICAL ENERGY CONVERSION LAB 1	1	EE 330 - M	-	practical (2)
EE 351	AUTOMATIC CONTROL	3	EE 301 - S EE 314 - M	-	lecture (2), practical (2), exercise (1)
EE 471	RENEWABLE ENERGY ENGINEERING	2	EE 340 - S EE 309 - S	-	lecture (2), exercise (1)
Total					17

Ninth

GE 404	ENGINEERING PROJECTS MANAGEMENT	2	EE 309 - S	-	lecture (2), exercise (1)
EE 496	GRADUATION PROJECT	1	-	-	project (4)
EE 499	COOPERATIVE SUMMER TRAINING	0	-	-	training (0)
Total					4

Tenth

GE 403	ENGINEERING ECONOMY	2	-	-	lecture (2), exercise (1)
GE 490	ETHICS AND PROFESSIONAL PRACTICE	2	-	-	lecture (2), exercise (1)
EE 497	GRADUATION PROJECT	2	EE 496 - S	-	project (4)
Total					6



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Group : إختيارية (23)

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EE 420	DIGITAL SIGNAL PROCESSING	3	EE 301 - S	-	lecture (3), exercise (1)
EE 431	ELECTROMECHANICAL ENERGY CONVERSION 2	2	EE 330 - S	-	lecture (2), exercise (1)
EE 433	ELECTROMECHANICAL ENERGY CONVERSION LABORATORY 2	1	EE 431 - M	-	practical (2)
EE 435	ELECTRIC DRIVES	3	EE 330 - S EE 318 - S	-	lecture (3)
EE 436	ELECTRICAL MACHINE DYNAMICS AND STABILITY	3	EE 330 - S	-	lecture (3)
EE 441	POWER SYSTEM ANALYSIS	3	EE 340 - S	-	lecture (3), exercise (1)
EE 444	POWER SYSTEM PLANNING	3	EE 340 - S	-	lecture (3)
EE 445	ELECTRICAL POWER LABORATORY	2	EE 441 - M	-	practical (4)
EE 446	HIGH VOLTAGE ENGINEERING	3	EE 340 - S	-	lecture (3), exercise (1)
Total					20
EE 443	POWER SYSTEM OPERATION AND CONTROL	3	EE 441 - S	-	lecture (3)
EE 447	ELECTRICITY MARKET AND ENERGY TRANSACTIONS	3	EE 441 - S	-	lecture (3)
EE 448	POWER DISTRIBUTION SYSTEMS	3	EE 340 - S	-	lecture (3)
EE 449	POWER SYSTEM PROTECTION	3	EE 441 - S	-	lecture (3), exercise (1)
EE 475	POWER SYSTEM GROUNDING	3	EE 340 - S	-	lecture (3)
EE 479	SELECTED TOPICS IN ELECTRICAL POWER ENGINEERING	3	-	-	lecture (3)
Total					18