



Adiyaman Üniversitesi
FACULTY OF ENGINEERING
Elektrik-Elektronik Mühendisliği
Elektrik-Elektronik Mühendisliği

1.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
AlIT101	ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION I	2+0+0	Compulsory	2
EEM103	Introduction to Electrical And Electronics Engineering	2+2+0	Compulsory	5
EEM109	Algorithms and Computer Programming I	2+2+0	Compulsory	5
FIZ101	Physics I	2+0+2	Compulsory	4
KIM101	Chemistry	2+0+2	Compulsory	4
MAT101	Mathematics I	3+1+0	Compulsory	5
TD101	TURKISH LANGUAGE I	2+0+0	Compulsory	2
YD101	FOREIGN LANGUAGE I	2+0+0	Compulsory	3
Total ECTS				30

2.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
AlIT102	Ataturk's Principles and History of Turkish Revolution II	2+0+0	Compulsory	2
EEM112	Algorithms and Computer Programming II	2+2+0	Compulsory	6
EEM114	Computer Aided Design	2+1+0	Compulsory	5
FIZ102	Physics II	2+0+2	Compulsory	4
MAT102	Mathematics II	3+1+0	Compulsory	5
MAT104	Linear Algebra	2+0+0	Compulsory	3
TD102	Turkish Language II	2+0+0	Compulsory	2
YD102	English Language II	2+0+0	Compulsory	3
Total ECTS				30

3.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
EEM201	Circuit Analysis I	4+0+0	Compulsory	6
EEM203	Introduction To Logic Circuits	3+0+0	Compulsory	4
EEM205	Material Knowledge For Electrical Engineering	3+0+0	Compulsory	3
EEM209	Circuit Analysis Laboratory I	0+0+2	Compulsory	3
EEM211	Logic Circuits Laboratory	0+0+2	Compulsory	2
EEM213	Vocational Elective Course I	3+0+0	Compulsory	3
EEM215	Complex Analysis	3+0+0	Compulsory	4
MUH201	Statistics for Engineers	2+0+0	Compulsory	3
SOSSEC1	Social Elective Course 1	2+0+0	Elective	2
Total ECTS				30

SOS201	COMMUNICATION	2+0+0	Elective	2
SOS203	ENVIRONMENTAL MANAGEMENT SYSTEMS	2+0+0	Elective	2
SOS205	ECONOMY FOR ENGINEERING	2+0+0	Elective	2
SOS207	CRITICAL ANALYTIC THINKING	2+0+0	Elective	2
SOS209	HISTORY OF SCIENCE	2+0+0	Elective	2

4.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
EEM200	Internship 1	0+0+0	Compulsory	0
EEM210	Circuit Analysis Laboratory II	0+0+2	Compulsory	2
EEM212	Circuit Analysis II	4+0+0	Compulsory	5
EEM214	Vocational Elective Course II	3+0+0	Compulsory	3
EEM216	Probability Theory For Engineering	3+0+0	Compulsory	3
EEM218	Electromagnetic Field Theory	4+0+0	Compulsory	4
EEM220	Numerical Analysis in Electrical and Electronics Engineering	3+1+0	Compulsory	4
MAT202	Differential Equations	3+0+0	Compulsory	4
MUH204	Occupational Health and Safety	2+0+0	Compulsory	3
SOSSEC2	Social Elective Course 2	2+0+0	Elective	2
Total ECTS				30

SOS202	PUBLIC RELATIONS	2+0+0	Elective	2
SOS204	FIRST AID	2+0+0	Elective	2
SOS206	ENVIRONMENTAL POLLUTION AND CONTROL	2+0+0	Elective	2
SOS208	ARTIFICIAL INTELLIGENCE METHODS	2+0+0	Elective	2

SOS210	RESEARCH AND INVESTIGATION TECHNIQUES	2+0+0	Elective	2
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5.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
EEM301	Analog Electronics	3+0+0	Compulsory	5
EEM303	Electrical Machines I	3+0+0	Compulsory	4
EEM311	Analog Electronics Laboratory	0+0+2	Compulsory	2
EEM313	Electrical Machines Laboratory I	0+0+2	Compulsory	2
EEM315	Signals And Systems	3+0+0	Compulsory	3
EEM317	Introduction To Microprocessors	3+2+0	Compulsory	4
EEM319	Electromagnetic Wave Theory	4+0+0	Compulsory	4
EEMSEC1	VOCATIONAL ELECTIVE COURSE (1 COURSE)	2+1+0	Elective	4
SOSSEC3	Social Elective Courses 3	2+0+0	Elective	2
Total ECTS				30

EEM393	Object Oriented Software	2+1+0	Elective	4
EEM395	Web Based Programming	2+1+0	Elective	4
SOS301	PATENT AND INDUSTRIAL DESIGN	2+0+0	Elective	2
SOS303	ENVIRONMENT and ECOLOGY	2+0+0	Elective	2
SOS305	HISTORY of ART	2+0+0	Elective	2
SOS307	SIGN LANGUAGE	2+0+0	Elective	2
SOS309	OPERATIONS RESEARCH	2+0+0	Elective	2
SOS311	ADMINISTRATION OF TECHNOLOGY AND INNOVATION	2+0+0	Elective	2

6.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
EEM300	Internship 2	0+0+0	Compulsory	0
EEM302	Digital Electronics	3+0+0	Compulsory	4
EEM304	Electrical Machines II	3+0+0	Compulsory	4
EEM306	Control Systems	3+0+0	Compulsory	4
EEM308	Digital Electronics Laboratory	0+0+2	Compulsory	2
EEM312	Power Electronics	3+1+0	Compulsory	4
EEM314	Electrical Machines Laboratory II	0+0+2	Compulsory	2
EEM328	Microcontrollers And Applications	3+2+0	Compulsory	4
EEMSEC2	VOCATIONAL ELECTIVE COURSE (1 COURSE)	3+0+0	Elective	4
SOSSEC4	Social Elective Courses 4	2+0+0	Elective	2
Total ECTS				30

EEM330	Electric Power Quality	3+0+0	Elective	4
EEM332	Safety in Electric Plants	3+0+0	Elective	4
SOS302	ENTREPRENEURSHIP	2+0+0	Elective	2
SOS304	AHI COMMUNITY AND PROFESSIONAL ETHICS	2+0+0	Elective	2
SOS306	PRODUCTION PLANNING	2+0+0	Elective	2
SOS308	ERGONOMY	2+0+0	Elective	2
SOS310	CLIMATE CHANGE AND SUSTAINABLE ADMINISTRATION	2+0+0	Elective	2
SOS312	CAREER PLANNING AND DEVELOPMENT	2+0+0	Elective	2
SOS314	INTERNATIONAL RELATIONS	2+0+0	Elective	2

7.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
EEM401	Senior Design Project	0+2+0	Compulsory	2
EEM467	Programmable Logic Controllers	3+0+0	Compulsory	4
EEM469	Electrical Energy Generation	3+0+0	Compulsory	3
EEM471	Electrical Power Transmission And Distribution	3+0+0	Compulsory	3
EEMSEC3	VOCATIONAL ELECTIVE COURSE (4 COURSE)	3+0+0	Elective	16
SOSSEC5	Social Elective Courses 5	2+0+0	Elective	2
Total ECTS				30

EEM421	Embedded Systems	3+0+0	Elective	4
EEM423	Medical Electronics	3+0+0	Elective	4
EEM425	Optoelectronics	3+0+0	Elective	4
EEM427	Illumination Technic	3+0+0	Elective	4
EEM429	Air Conditioning And Cooling	3+0+0	Elective	4
EEM431	Introduction Artificial Neural Networks	3+0+0	Elective	4
EEM433	Design Of Analog Integrated Circuits	3+0+0	Elective	4
EEM435	Microwave Circuits	3+0+0	Elective	4
EEM437	Electromagnetic Compatibility	3+0+0	Elective	4
EEM439	High Voltage Techniques	3+0+0	Elective	4
EEM441	Basis Of Biomedical Engineering	3+0+0	Elective	4

EEM445	Digital Signal Processing	3+0+0	Elective	4
EEM447	Digital Communication	3+0+0	Elective	4
EEM449	Electrical Installation Project	3+0+0	Elective	4
EEM451	Non-Linear Circuits And Systems	3+0+0	Elective	4
EEM455	Introduction To Programmable Logic Components	3+0+0	Elective	4
EEM457	Data Communication	3+0+0	Elective	4
EEM461	Wireless Communication	3+0+0	Elective	4
EEM465	Power System Analysis	3+0+0	Elective	4
SOS401	OCCUPATIONAL LAW	2+0+0	Elective	2
SOS403	INTELLECTUAL AND INDUSTRIAL PROPERTY	2+0+0	Elective	2
SOS405	POWER SAVINGS IN INDUSTRY	2+0+0	Elective	2
SOS407	BUSINESS ADMINISTRATION AND MANAGEMENT	2+0+0	Elective	2
SOS409	PLANT ORGANIZATION AND PLANNING	2+0+0	Elective	2
SOS411	PRODUCTIVITY MEASUREMENT AND ANALYSIS	2+0+0	Elective	2
SOS413	RISK MANAGEMENT	2+0+0	Elective	2
SOS415	ENERGY AND ENVIRONMENT	2+0+0	Elective	2

8.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
EEM404	Engineering Adaptation	0+2+0	Compulsory	15
EEM406	Special Topics in Electrical-Electronics Enegineering	2+0+0	Compulsory	5
EEM408	Database Programming for Internet	2+0+0	Compulsory	5
EEM410	Industrial Electronics	2+0+0	Compulsory	5
			Total ECTS	30