

**DEPARTMENT OF ELECTRICITY AND ENERGY
ELECTRICITY PROGRAM
COURSES**

ACADEMIC YEAR I I. SEMESTER

Course Code	Course Name	Credit	ECTS
0690220026	Mathematics-I	3	4
0690220027	Direct Current Circuits	4	5
0690220028	Measurement Technique	4	5
0690220029	Basic Electronics	4	5
0690220089	Failure Analysis	2	3
0690220140	Introduction to the Facility	3	5
ISGGÜV1	Occupational Health and Safety-I	1	1
AYD101	Academic Writing	2	2

ACADEMIC YEAR I II. SEMESTER

Course Code	Course Name	Credit	ECTS
0690220056	Mathematics-II	2	3
0690220057	Alternative Current Circuits	4	4
0690220059	Transformer and Direct Current Machines	4	3
0690220063	Computer Aided Design	1,5	2
0690220128	Electrical Power Plants	2	2
0690220129	Transmission And Distribution of Electrical Power	2	2
0690220139	Internship	0	8
ISGGÜV2	Occupational Health and Safety-II	1	1
KRP102	Career Planning	1	2
	Optional Course 1	3	3

II. Semester Optional Course 1

Course Code	Course Name	Credit	ECTS
0690220060	Electronic Circuit Design	3	3
0690220094	Electromechanical Command Systems	3	3
0690220142	Home Appliances	3	3

ACADEMIC YEAR II III. SEMESTER

Course Code	Course Name	Credit	ECTS
AİT101	Atatürk's Principles and Turkish Revolution History-I	2	2
TDL101	Turkish Language-I	2	2
YBD101	Foreign Language-I	2	2
0690220058	Computer Aided Project-I	3	3
0690220088	Digital Electronics	3	3
0690220090	Power Electronics-I	3	4
0690220092	Asynchronous and Synchronous Machines	4	4
0690220093	Winding Technique	3,5	4
0690220132	Programmable Controllers	2,5	4
	Optional Course 2	2	2

III. Semester Optional Course 2

Course Code	Course Name	Credit	ECTS
0690220144	Environmental Protection	2	2
0690220146	Sign Language	2	2
0690220147	Sportive Activities-I	2	2
0690220162	Communication	2	2
0690220163	Introduction to University Life	2	2
0690220165	Information Technologies	1,5	2
0690220169	Applied Mathematics	2	2
AKT101	Academic Turkish-I	2	2
GNLÇLŞ	Volunteering Studies	2	2
TKNBAG	Technology Addiction	2	2

ACADEMIC YEAR II IV. SEMESTER

Course Code	Course Name	Credit	ECTS
AİT102	Atatürk's Principles and Turkish Revolution History-II	2	2
TDL102	Turkish Language-II	2	2
YBD102	Foreign Language-II	2	2
0690220170	System Analysis and Design	3	6
	Optional Course 3	3	3
	Optional Course 4	3	3
	Optional Course 5	3	3
	Optional Course 6	3	3
	Optional Course 7	3	4
	Optional Course 8	2	2

IV. Semester Optional Course 3

Course Code	Course Name	Credit	ECTS
0690220091	Computer Aided Project-II	3	3
0690220131	Special Installation	3	3
0690220137	Power Electronics-II	3	3
0690220168	Computer Programming	3	3
0690220171	Workplace Training and Applications 1	3	3

IV. Semester Optional Course 4

Course Code	Course Name	Credit	ECTS
0690220133	Scada Systems	3	3
0690220141	Cooling Technique	3	3
0690220172	Workplace Training and Applications 2	3	3

IV. Semester Optional Course 5

Course Code	Course Name	Credit	ECTS
0690220126	Sensors and Transducers	3	3
0690220148	Panel Design and Installation	3	3
0690220173	Workplace Training and Applications 3	3	3

IV. Semester Optional Course 6

Course Code	Course Name	Credit	ECTS
0690220127	Quality Assurance and Standards	3	3
0690220149	Professional Ethics	3	3
0690220174	Workplace Training and Applications 4	3	3
0690220145	Applied Entrepreneurship	3,5	3

IV. Semester Optional Course 7

Course Code	Course Name	Credit	ECTS
0690220130	Special Designed Motors	3	4
0690220152	Hydraulic Pneumatic Systems	3	4
0690220175	Workplace Training and Applications 5	3	4

IV. Semester Optional Course 8

Course Code	Course Name	Credit	ECTS
0690220143	Busines Management	2	2
0690220153	Cultural Events	2	2
0690220154	Financial Literacy	2	2
0690220155	Sportive Activities-II	2	2
0690220164	Social Responsibility	2	2
0690220176	Workplace Training and Applications 6	2	2
AKT102	Academic Turkish-II	2	2