

2023 MÜFREDATI MÜHENDİSLİK FAKÜLTESİ / ENERJİ SİSTEMLERİ MÜHENDİSLİĞİ (İNGİLİZCE) EĞİTİM PLANI

SINIF: 1	DÖNEM: GÜZ	Kısaltmalar: PSDS: Paketten Seçilecek Ders Sayısı PSKM: Paketten Seçilecek Kredi Miktarı							
Ders Kodu	Ders Adı (Türkçe)	Müf.No	T	P	K	AKTS	Tip	Op.	PSDS PSKM
ESAP 101	PRINCIPLES AND TRANSFORMATIONS OF ATATURK-I	2023	2	0	2	2	Z		
ESE 101	INTRODUCTION TO ENERGY ENGINEERING	2023	2	0	2	2	Z		
ESE 103	COMPUTER AIDED ENGINEERING DRAWING - I	2023	3	0	3	3	Z		
ESE 105	BASIC INFORMATION TECHNOLOGIES	2023	2	0	2	2	Z		
ESE 107	CALCULUS - I	2023	4	0	6	6	Z		
ESE 109	PHYSICS - I	2023	3	1	6	6	Z		
ESE 111	GENERAL CHEMISTRY - I	2023	3	1	5	5	Z		
ESTL 101	TURKISH LANGUAGE - I	2023	2	0	2	2	Z		
ESYD 101	FOREIGN LANGUAGE - I	2023	2	0	2	2	Z		
KREDİ TOPLAMI					30	/	30		30
SINIF: 1	DÖNEM: BAHAR	Kısaltmalar: PSDS: Paketten Seçilecek Ders Sayısı PSKM: Paketten Seçilecek Kredi Miktarı							
Ders Kodu	Ders Adı (Türkçe)	Müf.No	T	P	K	AKTS	Tip	Op.	PSDS PSKM
ESAP 102	PRINCIPLES AND TRANSFORMATIONS OF ATATURK - II	2023	2	0	2	2	Z		
ESE 102	DYNAMICS	2023	3	0	4	4	Z		
ESE 104	ENGINEERING CHEMISTRY	2023	2	0	3	3	Z		
ESE 106	ELECTRICAL CIRCUITS	2023	3	0	3	3	Z		
ESE 108	COMPUTER AIDED ENGINEERING DRAWING - II	2023	3	0	3	3	Z		
ESE 110	CAREER PLANNING	2023	1	0	2	2	Z		
ESE 114	CALCULUS - II	2023	4	0	6	6	Z		
ESM 112	LINEAR ALGEBRA	2023	2	0	3	3	Z		
ESTL 102	TURKISH LANGUAGE - II	2023	2	0	2	2	Z		
ESYD 102	FOREIGN LANGUAGE - II	2023	2	0	2	2	Z		
KREDİ TOPLAMI					30	/	60		60
SINIF: 2	DÖNEM: GÜZ	Kısaltmalar: PSDS: Paketten Seçilecek Ders Sayısı PSKM: Paketten Seçilecek Kredi Miktarı							
Ders Kodu	Ders Adı (Türkçe)	Müf.No	T	P	K	AKTS	Tip	Op.	PSDS PSKM
ESE 201	DIFFERENTIAL EQUATIONS IN ENGINEERING	2023	3	0	5	5	Z		
ESE 203	STATICS	2023	4	0	6	6	Z		
ESE 205	THERMODYNAMICS - I	2023	3	0	5	5	Z		
ESE 207	ELECTRONIC CIRCUITS	2023	3	0	3	3	Z		
ESE 209	PROBABILITY AND STATISTICS	2023	2	0	3	3	Z		
ESE 211	ENGINEERING MATHEMATICS - I	2023	2	0	3	3	Z		
ESE 213	COMPUTER PROGRAMMING	2023	3	0	3	3	Z		
ESE 215	OCCUPATIONAL HEALTH AND SAFETY - I	2023	2	0	2	2	Z		
KREDİ TOPLAMI					30	/	90		90
SINIF: 2	DÖNEM: BAHAR	Kısaltmalar: PSDS: Paketten Seçilecek Ders Sayısı PSKM: Paketten Seçilecek Kredi Miktarı							
Ders Kodu	Ders Adı (Türkçe)	Müf.No	T	P	K	AKTS	Tip	Op.	PSDS PSKM
ESE 202	ENGINEERING MATHEMATICS - II	2023	4	0	6	6	Z		
ESE 204	ENGINEERING MECHANICS	2023	4	0	6	6	Z		
ESE 206	THERMODYNAMICS - II	2023	3	0	5	5	Z		
ESE 208	NUMERICAL METHODS IN ENGINEERING	2023	2	0	3	3	Z		
ESE 210	ENERGY SOURCES	2023	2	0	2	2	Z		
ESE 212	SIGNALS AND SYSTEMS	2023	2	0	3	3	Z		
ESE 214	STATISTICAL APPLICATIONS IN ENGINEERING	2023	2	0	3	3	Z		
ESE 216	OCCUPATIONAL HEALTH AND SAFETY - II	2023	2	0	2	2	Z		
KREDİ TOPLAMI					30	/	120		120
SINIF: 3	DÖNEM: GÜZ	Kısaltmalar: PSDS: Paketten Seçilecek Ders Sayısı PSKM: Paketten Seçilecek Kredi Miktarı							
Ders Kodu	Ders Adı (Türkçe)	Müf.No	T	P	K	AKTS	Tip	Op.	PSDS PSKM
ESE 301	HEAT TRANSFER - I	2023	3	0	5	5	Z		

ESE 303	FLUID MECHANICS - I	2023	3	0	4	4	Z		
ESE 305	ELECTROMECHANICAL ENERGY CONVERSION	2023	2	0	3	3	Z		
ESE 307	LOGIC CIRCUITS	2023	2	0	3	3	Z		
ESE 309	SOLAR ENERGY SYSTEMS	2023	3	0	3	3	Z		
ESE 311	WIND ENERGY SYSTEMS	2023	2	0	3	3	Z		
ESE 313	DESIGN AND MODELLING TECHNIQUES	2023	2	0	3	3	Z		
ESE 315	NUCLEAR ENERGY SYSTEMS	2023	2	0	3	3	Z		
ESEIN 01	INTERNSHIP APPLICATIONS - I	2023	0	2	3	3	Z		
KREDİ TOPLAMI							30 / 150	150	
SINIF: 3	DÖNEM: BAHAR	Kısaltmalar: PSDS: Paketten Seçilecek Ders Sayısı PSKM: Paketten Seçilecek Kredi Miktarı							
Ders Kodu	Ders Adı (Türkçe)	Müf.No	T	P	K	AKTS	Tip	Op.	PSDS PSKM
ESE 302	HEAT TRANSFER - II	2023	3	0	5	5	Z		
ESE 304	FLUID MECHANICS - II	2023	3	0	5	5	Z		
ESE 306	ENERGY STORAGE SYSTEMS	2023	2	0	3	3	Z		
ESE 308	AUTOMATIC CONTROL SYSTEMS	2023	2	0	3	3	Z		
ESE 310	POWER ELECTRONICS	2023	3	0	4	4	Z		
ESE 312	CONVENIONAL ENERGY SYSTEMS	2023	3	0	4	4	Z		
ESE 314	HYDROPOWER SYSTEMS	2023	2	0	3	3	Z		
ESE 316	ELECTRICITY TRANSMISSION AND DISTRIBUTION	2023	2	0	3	3	Z		
KREDİ TOPLAMI							30 / 180	180	
SINIF: 4	DÖNEM: GÜZ	Kısaltmalar: PSDS: Paketten Seçilecek Ders Sayısı PSKM: Paketten Seçilecek Kredi Miktarı							
Ders Kodu	Ders Adı (Türkçe)	Müf.No	T	P	K	AKTS	Tip	Op.	PSDS PSKM
ESE 401	ENERGY ECONOMICS AND POLICY	2023	3	0	5	5	Z		
ESE 403	ENERGY LAW	2023	2	0	3	3	Z		
ESE 405	HYBRID ENERGY SYSTEMS	2023	2	0	3	3	Z		
ESE 407	ENERGY SYSTEMS LABORATORY	2023	0	2	4	4	Z		
ESEIN 02	INTERNSHIP APPLICATIONS - II	2023	0	2	3	3	Z		
ESEE 01	ELECTIVE COURSE FALL - I	2023	2	0	3	3	S		4
ESEE 001	FUEL CELLS	2023	2	0	3	3	S		
ESEE 003	INTRODUCTION TO COMPUTATIONAL FLUID DYNAMICS	2023	2	0	3	3	S		
ESEE 005	HEAT EXCHANGERS	2023	2	0	3	3	S		
ESEE 007	SIMULATION AND ANALYSIS	2023	2	0	3	3	S		
ESEE 009	GAS TURNIBES	2023	2	0	3	3	S		
ESEE 011	ELECTRICAL MACHINES	2023	2	0	3	3	S		
ESEE 013	HEAT INSULATION	2023	2	0	3	3	S		
ESEE 015	COMPOSITE MATERIALS	2023	2	0	3	3	S		
ESEE 017	ENGINEERING ECONOMICS	2023	2	0	3	3	S		
ESEE 019	HIBRID AND ELECTRICAL CAR TECHNOLOGY	2023	2	0	3	3	S		
ESEE 021	INDUSTRIAL ELECTRONICS	2023	2	0	3	3	S		
ESEE 023	WIND ENERGY METEOROLOGY	2023	2	0	3	3	S		
ESEE 025	STEAM BOILERS	2023	2	0	3	3	S		
ESEE 027	NEW TECHNOLOGIES IN MOTOR VEHICLES	2023	2	0	3	3	S		
ESEE 029	NUCLEAR HYDROGEN PRODUCTION	2023	2	0	3	3	S		
ESEE 031	TURBO MACHINES	2023	2	0	3	3	S		
ESEE 033	LIGHTING TECHNIQUE	2023	2	0	3	3	S		
ESEE 035	MICROPROCESSORS	2023	2	0	3	3	S		
ESEE 037	CORROSION AND PREVENTION	2023	2	0	3	3	S		
ESEE 039	POWER TRANSMISSION MECHANISMS	2023	2	0	3	3	S		
ESEE 041	HEATING AND AIR VENTILATION	2023	2	0	3	3	S		
ESEE 043	AIR CONDITIONING	2023	2	0	3	3	S		
ESEE 045	MANAGEMENT AND PLANNING	2023	2	0	3	3	S		
ESEE 047	ENVIRONMENTAL POLICIES	2023	2	0	3	3	S		
ESEE 049	REINFORCED CONCRETE	2023	2	0	3	3	S		

ESEE 051	LINEAR PROGRAMMING	2023	2	0	3	3	S		
ESEE 053	NATURAL GAS SYSTEMS	2023	2	0	3	3	S		
ESEE 055	PROGRAMMABLE LOGIC CONTROLLERS	2023	2	0	3	3	S		
ESEE 057	ENTREPRENEURSHIP	2023	2	0	3	3	S		
ESEE 059	ENERGY MATERIALS SCIENCE	2023	2	0	3	3	S		
ESEE 061	TECHNOLOGY AND INOVATION MANAGEMENT	2023	2	0	3	3	S		
ESEE 002	EXPERIMENTAL FLUID DYNAMICS	2023	2	0	3	3	S		
ESEE 004	FUELS AND COMBUSTION	2023	2	0	3	3	S		
ESEE 006	BIOFUEL TECHNOLOGY	2023	2	0	3	3	S		
ESEE 008	ENERGY EFFICIENCY AND MANAGEMENT IN INDUSTRY	2023	2	0	3	3	S		
ESEE 010	SOLAR ENERGY APPLICATIONS	2023	2	0	3	3	S		
ESEE 012	PETROL TECHNOLOGIES	2023	2	0	3	3	S		
ESEE 014	QUALITY AND ENVIRONMENT MANAGEMENT SYSTEMS	2023	2	0	3	3	S		
ESEE 016	DESIGN AND OPTIMIZATION OF ENERGY SYSTEMS	2023	2	0	3	3	S		
ESEE 018	COAL TECHNOLOGIES	2023	2	0	3	3	S		
ESEE 020	FACILITIES PLANNING	2023	2	0	3	3	S		
ESEE 022	HIGH VOLTAGE TECHNIQUE	2023	2	0	3	3	S		
ESEE 024	ABSORPTION ENERGY SYSTEMS	2023	2	0	3	3	S		
ESEE 026	INTRODUCTION TO ROBOTICS	2023	2	0	3	3	S		
ESEE 028	WELDING TECHNOLOGY	2023	2	0	3	3	S		
ESEE 030	HYDRAULIC MACHINES	2023	2	0	3	3	S		
ESEE 032	MODERN CONTROL TECHNIQUES	2023	2	0	3	3	S		
ESEE 034	HUMAN RELATIONS IN ENGINEERING	2023	2	0	3	3	S		
ESEE 036	CLIMATE CHANGE AND ENVIRONMENTAL EFFECTS	2023	2	0	3	3	S		
ESEE 038	STEEL STRUCTURES	2023	2	0	3	3	S		
ESEE 040	INTERNAL COMBUSTION ENGINES	2023	2	0	3	3	S		
ESEE 042	ENERGY SYSTEMS AND PLANTS IN BUILDINGS	2023	2	0	3	3	S		
ESEE 044	GEO THERMAL ENERGY	2023	2	0	3	3	S		
ESEE 046	CHEMICAL ENERGY	2023	2	0	3	3	S		
ESEE 048	ADVANCED NUCLEAR TECHNOLOGIES	2023	2	0	3	3	S		
ESEE 050	WIND TURBINE AERODYNAMICS	2023	2	0	3	3	S		
ESEE 052	HYDROGEN ENERGY SYSTEMS	2023	2	0	3	3	S		
ESEE 054	ELECTRICAL INSTALLATIONS	2023	2	0	3	3	S		
ESEE 056	PLUMBING	2023	2	0	3	3	S		
ESEE 058	NUCLEAR REACTORS	2023	2	0	3	3	S		
ESEE 060	PUBLIC RELATIONS	2023	2	0	3	3	S		
KREDİ TOPLAMI					30	/	210	201	
SINIF: 4	DÖNEM: BAHAR	Kısaltmalar: PSDS: Paketten Seçilecek Ders Sayısı PSKM: Paketten Seçilecek Kredi Miktarı							
Ders Kodu	Ders Adı (Türkçe)	Müf.No	T	P	K	AKTS	Tip	Op.	PSDS PSKM
ESE 402	ENERGY EFFICIENCY AND MANAGEMENT	2023	2	0	3	3	Z		
ESE 404	ENERGY SYSTEMS DESIGN AND APPLICATION	2023	0	3	7	7	Z		
ESE 406	FINAL PROJECT	2023	0	2	8	8	Z		
ESEE 02	ELECTIVE COURSE SPRING– II	2023	2	0	3	3	S		4
ESEE 001	FUEL CELLS	2023	2	0	3	3	S		
ESEE 003	INTRODUCTION TO COMPUTATIONAL FLUID DYNAMICS	2023	2	0	3	3	S		
ESEE 005	HEAT EXCHANGERS	2023	2	0	3	3	S		
ESEE 007	SIMULATION AND ANALYSIS	2023	2	0	3	3	S		
ESEE 009	GAS TURNIBES	2023	2	0	3	3	S		
ESEE 011	ELECTRICAL MACHINES	2023	2	0	3	3	S		
ESEE 013	HEAT INSULATION	2023	2	0	3	3	S		
ESEE 015	COMPOSITE MATERIALS	2023	2	0	3	3	S		
ESEE 017	ENGINEERING ECONOMICS	2023	2	0	3	3	S		
ESEE 019	HİBRİD AND ELECTRICAL CAR TECHNOLOGY	2023	2	0	3	3	S		
ESEE 021	INDUSTRIAL ELECTRONICS	2023	2	0	3	3	S		

ESEE 023	WIND ENERGY METEOROLOGY	2023	2	0	3	3	S
ESEE 025	STEAM BOILERS	2023	2	0	3	3	S
ESEE 027	NEW TECHNOLOGIES IN MOTOR VEHICLES	2023	2	0	3	3	S
ESEE 029	NUCLEAR HYDROGEN PRODUCTION	2023	2	0	3	3	S
ESEE 031	TURBO MACHINES	2023	2	0	3	3	S
ESEE 033	LIGHTING TECHNIQUE	2023	2	0	3	3	S
ESEE 035	MICROPROCESSORS	2023	2	0	3	3	S
ESEE 037	CORROSION AND PREVENTION	2023	2	0	3	3	S
ESEE 039	POWER TRANSMISSION MECHANISMS	2023	2	0	3	3	S
ESEE 041	HEATING AND AIR VENTILATION	2023	2	0	3	3	S
ESEE 043	AIR CONDITIONING	2023	2	0	3	3	S
ESEE 045	MANAGEMENT AND PLANNING	2023	2	0	3	3	S
ESEE 047	ENVIRONMENTAL POLICIES	2023	2	0	3	3	S
ESEE 049	REINFORCED CONCRETE	2023	2	0	3	3	S
ESEE 051	LINEAR PROGRAMMING	2023	2	0	3	3	S
ESEE 053	NATURAL GAS SYSTEMS	2023	2	0	3	3	S
ESEE 055	PROGRAMMABLE LOGIC CONTROLLERS	2023	2	0	3	3	S
ESEE 057	ENTREPRENEURSHIP	2023	2	0	3	3	S
ESEE 059	ENERGY MATERIALS SCIENCE	2023	2	0	3	3	S
ESEE 061	TECHNOLOGY AND INOVATION MANAGEMENT	2023	2	0	3	3	S
ESEE 002	EXPERIMENTAL FLUID DYNAMICS	2023	2	0	3	3	S
ESEE 004	FUELS AND COMBUSTION	2023	2	0	3	3	S
ESEE 006	BIOFUEL TECHNOLOGY	2023	2	0	3	3	S
ESEE 008	ENERGY EFFICIENCY AND MANAGEMENT IN INDUSTRY	2023	2	0	3	3	S
ESEE 010	SOLAR ENERGY APPLICATIONS	2023	2	0	3	3	S
ESEE 012	PETROL TECHNOLOGIES	2023	2	0	3	3	S
ESEE 014	QUALITY AND ENVIRONMENT MANAGEMENT SYSTEMS	2023	2	0	3	3	S
ESEE 016	DESIGN AND OPTIMIZATION OF ENERGY SYSTEMS	2023	2	0	3	3	S
ESEE 018	COAL TECHNOLOGIES	2023	2	0	3	3	S
ESEE 020	FACILITIES PLANNING	2023	2	0	3	3	S
ESEE 022	HIGH VOLTAGE TECHNIQUE	2023	2	0	3	3	S
ESEE 024	ABSORPTION ENERGY SYSTEMS	2023	2	0	3	3	S
ESEE 026	INTRODUCTION TO ROBOTICS	2023	2	0	3	3	S
ESEE 028	WELDING TECHNOLOGY	2023	2	0	3	3	S
ESEE 030	HYDRAULIC MACHINES	2023	2	0	3	3	S
ESEE 032	MODERN CONTROL TECHNIQUES	2023	2	0	3	3	S
ESEE 034	HUMAN RELATIONS IN ENGINEERING	2023	2	0	3	3	S
ESEE 036	CLIMATE CHANGE AND ENVIRONMENTAL EFFECTS	2023	2	0	3	3	S
ESEE 038	STEEL STRUCTURES	2023	2	0	3	3	S
ESEE 040	INTERNAL COMBUSTION ENGINES	2023	2	0	3	3	S
ESEE 042	ENERGY SYSTEMS AND PLANTS IN BUILDINGS	2023	2	0	3	3	S
ESEE 044	GEO THERMAL ENERGY	2023	2	0	3	3	S
ESEE 046	CHEMICAL ENERGY	2023	2	0	3	3	S
ESEE 048	ADVANCED NUCLEAR TECHNOLOGIES	2023	2	0	3	3	S
ESEE 050	WIND TURBINE AERODYNAMICS	2023	2	0	3	3	S
ESEE 052	HYDROGEN ENERGY SYSTEMS	2023	2	0	3	3	S
ESEE 054	ELECTRICAL INSTALLATIONS	2023	2	0	3	3	S
ESEE 056	PLUMBING	2023	2	0	3	3	S
ESEE 058	NUCLEAR REACTORS	2023	2	0	3	3	S
ESEE 060	PUBLIC RELATIONS	2023	2	0	3	3	S
KREDİ TOPLAMI					30 / 240	222	