2022-2023 EĞİTİM-ÖĞRETİM YILI GÜZ YARIYILINDAN İTİBAREN ENDÜSTRİ MÜHENDİSLİĞİ BÖLÜMÜ LİSANS PROGRAMINDA ÇAP YAPACAK MİMARLIK BÖLÜMÜ (İNGİLİZCE) LİSANS PROGRAMI ÖĞRENCİLERİ İÇİN DERS PLANI

ENDÜSTRİ MÜHENDİSLİĞİ BÖLÜMÜ LİSANS PROGRAMI DERS PLANI

DERS KODU	DERS ADI	AKTS
1. YARIYIL		
E1001	**Introduction to Computing**	**6**
E1601	**Engineering Graphics**	**5**
MCB1001	**Calculus I**	**7**
PHY1001	**Physics I**	**7**
ATA1001	**Principles of Atatürk and History of Revolution I**	**2**
TR1001	**Turkish I**	**2**
E1702	**Academic English for Industrial Engineering I**	**3**
2. YARIYIL		
E2002	**Introduction to Programming**	**5**
E2401	**Introduction to Industrial Engineering**	**3**
E2602	**General Chemistry**	**5**
MCB1002	**Calculus II**	**7**
PHY2001	**Physics II**	**7**
ATA2001	**Principles of Atatürk and History of Revolution II**	**2**
TR2001	**Turkish II**	**2**
E2703	**Academic English for Industrial Engineering II**	**3**
3. YARIYIL		
E3003	**Object Oriented Programming**	**5**
E3101	**Introduction to Probability**	**6**
E3501	**Economics**	**4**
E3502	**Financial and Cost Accounting**	**4**
E3603	**Materials Science**	**4**
MCB1004	**Linear Algebra**	**6**
	Elective (minimum 2 AKTS)	**2**
4. YARIYIL		
E4004	**Numerical Analysis for Industrial Engineers**	**5**
E4102	**Statistics for Engineers**	**6**
E4201	**Operations Research I**	**7**
E4503	**Engineering Economics**	**6**
	Departmental Elective (minimum 4 AKTS)	**4**
	Elective (minimum 2 AKTS)	**2**
5. YARIYIL		
E5202	**Operations Research II**	**7**
E5403	**Facilities Design and Planning**	**7**
E5802	**Industrial Training I**	**3**
ENC1001	**Engineering Orientation**	**2**
	Departmental Elective (minimum 13 AKTS)	**13**
6. YARIYIL		
E6103	**Design of Experiments**	**6**
E6404	**Production Planning and Control**	**7**
	Departmental Elective (minimum 17 AKTS)	**17**
7. YARIYIL		
E7203	**Simulation Modelling**	**6**
E7405	**Supply Chain Management**	**5**
E7803	**Industrial Training II**	**3**
	Departmental Elective (minimum 16 AKTS)	**16**
8. YARIYIL		
E8406	**Quality Engineering**	**5**
E8900	**Graduation Project**	**8**
	Departmental Elective (minimum 17 AKTS)	**17**
	TOPLAM	**249**

MİMARLIK BÖLÜMÜ (İNGİLİZCE) LİSANS PROGRAMI DERS PLANI

DERS KODU	DERS ADI	AKTS
1. YARIYIL		
ARC1070	ACADEMIC ENGLISH FOR ARCHITECTURE I	3
ARC1010	PRESENTATION TECHNIQUES	4
ARC0001	ARCHITECTURAL DESIGN I	8
ARC1011	BASIC DESIGN	4
MCB2002	MATHEMATICS FOR ARCHITECTURE	3
ATA1001	Atatürk's Principles and History of Turkish Revolution I	2
TR1001	Turkish I	2
	Elective	4
2. YARIYIL		
ARC2070	ACADEMIC ENGLISH FOR ARCHITECTURE II	3
ARC2031	HISTORY OF ANTIQUITY ARCHITECTURE	2
ARC0002	ARCHITECTURAL DESIGN II	8
ARC2020	BUILDING SCIENCE I	4
ARC2022	BUILDING MECHANICS	2
ARC2011	CONCEPTS OF ARCHITECTURE	2
ARC2010	COMPUTER AIDED PRESENTATION SKILLS	3
ATA2001	Atatürk's Principles and History of Turkish Revolution II	2
TR2001	Turkish II	2
	Elective	2
3. YARIYIL		
ARC3021	BUILDING MATERIAL	2
ARC0003	ARCHITECTURAL DESIGN III	9
ARC3020	BUILDING SCIENCE II	5
ARC3022	STATICS	3
ARC3030	HISTORY OF ANATOLIAN ARCHITECTURE	3
	Departmental Elective	8
4. YARIYIL		
ARC0004	ARCHITECTURAL DESIGN IV	9
ARC4020	BUILDING SCIENCE III	5
ARC4024	PHYSICAL ENVIRONMENTAL CONTROL I	4
ARC4022	STRUCTURAL SYSTEMS I	2
ARC4031	HISTORY OF EUROPEAN ARCHITECTURE	3
ARC4040	PRINCIPLES OF URBAN DESIGN	3
	Departmental Elective	4
5. YARIYIL		
ARC5040	PRINCIPLES OF URBAN PLANNING	3
ARC0005	ARCHITECTURAL DESIGN V	10
ARC5024	PHYSICAL ENVIRONMENTAL CONTROL II	5
ARC5023	STRUCTURAL SYSTEMS II	2
ARC5030	HISTORY OF CONTEMPORARY ARCHITECTURE	3
ARC5031	CONSERVATION AND RESTORATION OF HISTORIC BUILDINGS	3
	Departmental Elective	4
6. YARIYIL		
ARC0006	ARCHITECTURAL DESIGN VI	10
ARC6033	MEASURED DRAWING, RESTORATION AND REUSE	5
ARC6026	ARCHITECTURAL ECONOMICS	3
	Departmental Elective	12
7. YARIYIL		
ARC0007	ARCHITECTURAL DESIGN VII	10
ARC7025	CONSTRUCTION MANAGEMENT	2
ARC7000	PROFESSIONAL PRACTICE I	4
	Departmental Elective	14
8. YARIYIL		
ARC0080	GRADUATION PROJECT	12
ARC8026	URBAN DEVELOPMENT AND PROFESSIONAL PRACTICE	2
ARC8000	PROFESSIONAL PRACTICE II	4
	Departmental Elective	12
	TOPLAM	**240**

MİMARLIK BÖLÜMÜ (İNGİLİZCE) LİSANS PROGRAMI DERS PLANINDAKİ EŞDEĞER DERSLER

DERS KODU	DERS ADI	AKTS
1. YARIYIL		
ATA1001 / ATA1001	Atatürk's Principles and History of Turkish Revolution I / Principles of Atatürk and History of Revolution I	2 / 2
TR1001 / TR1001	Turkish I / Turkish I	2 / 2
ARC1070 / IE1702	ACADEMIC ENGLISH FOR ARCHITECTURE I / Academic English for Industrial Engineering I	3 / 3
2. YARIYIL		
ATA2001 / ATA2001	Atatürk's Principles and History of Turkish Revolution II / Principles of Atatürk and History of Revolution II	2 / 2
TR2001 / TR2001	Turkish II	2 / 2
ARC2070 / IE2703	ACADEMIC ENGLISH FOR ARCHITECTURE II / Academic English for Industrial Engineering II	3 / 3
3. YARIYIL		
4. YARIYIL		
	Elective / Elective (minimum 2 AKTS)	2 / 2
5. YARIYIL		
	Elective / Elective (minimum 2 AKTS)	4 / 2
6. YARIYIL		
7. YARIYIL		
8. YARIYIL		

ÇAP ÖĞRENCİSİNİN ENDÜSTRİ MÜHENDİSLİĞİ BÖLÜMÜ LİSANS PROGRAMI DERS PLANINDAN ALMAK ZORUNDA OLDUĞU DERSLER

DERS KODU	DERS ADI	AKTS
1. YARIYIL		
E1001	**Introduction to Computing**	**6**
E1601	**Engineering Graphics**	**5**
MCB1001	**Calculus I**	**7**
PHY1001	**Physics I**	**7**
2. YARIYIL		
E2002	**Introduction to Programming**	**5**
E2401	**Introduction to Industrial Engineering**	**3**
E2602	**General Chemistry**	**5**
MCB1002	**Calculus II**	**7**
PHY2001	**Physics II**	**7**
3. YARIYIL		
E3003	**Object Oriented Programming**	**5**
E3101	**Introduction to Probability**	**6**
E3501	**Economics**	**4**
E3502	**Financial and Cost Accounting**	**4**
E3603	**Materials Science**	**4**
MCB1004	**Linear Algebra**	**6**
4. YARIYIL		
E4004	**Numerical Analysis for Industrial Engineers**	**5**
E4102	**Statistics for Engineers**	**6**
E4201	**Operations Research I**	**7**
E4503	**Engineering Economics**	**6**
	Departmental Elective (minimum 4 AKTS)	**4**
5. YARIYIL		
E5202	**Operations Research II**	**7**
E5403	**Facilities Design and Planning**	**7**
E5802	**Industrial Training I**	**3**
ENC1001	**Engineering Orientation**	**2**
	Departmental Elective (minimum 13 AKTS)	**13**
6. YARIYIL		
E6103	**Design of Experiments**	**6**
E6404	**Production Planning and Control**	**7**
	Departmental Elective (minimum 17 AKTS)	**17**
7. YARIYIL		
E7203	**Simulation Modelling**	**6**
E7405	**Supply Chain Management**	**5**
E7803	**Industrial Training II**	**3**
	Departmental Elective (minimum 16 AKTS)	**16**
8. YARIYIL		
E8406	**Quality Engineering**	**5**
E8900	**Graduation Project**	**8**
	Departmental Elective (minimum 17 AKTS)	**17**
	TOPLAM	**231**

SEÇİMLİK ALAN DERSLERİ (SA)

DERS KODU	DERS ADI	AKTS
E0005	**Introduction to Fuzzy Modelling**	**5**
E0006	**Data Structures and Programming**	**5**
E0104	**Introduction to Data Mining**	**6**
E0204	**Case Studies in Mathematical Modelling**	**6**
E0205	**Introduction to Decision Analysis**	**6**
E0301	**Systems Analysis**	**5**
E0302	**Enterprise Resource Planning**	**5**
E0303	**Management Information Systems**	**5**
E0307	**Technology Management**	**5**
E0402	**Ergonomics**	**6**
E0407	**Work Study**	**6**
E0408	**Scheduling Applications in Manufacturing and Services**	**6**
E0409	**Project Management**	**6**
E0410	**Quality Planning and Analysis**	**5**
E0504	**Strategic Management**	**5**
E0505	**Marketing Management**	**5**
E0506	**Introduction to Business Management**	**4**
E0507	**Organizational Behaviour and Human Resources**	**4**
E0508	**Labor Law**	**4**
E0604	**Computer Integrated Manufacturing Systems**	**5**
E0605	**Advanced Manufacturing Systems**	**6**
E0606	**Manufacturing Techniques**	**5**
E0607	**Industrial Applications of Nanotechnology**	**6**
E0608	**Introduction to Renewable Energy**	**6**
E0609	**Introduction to Energy Management**	**5**
E0701	**Academic Writing and Presentation Skills**	**5**
E0901	**Special Topics in Industrial Engineering**	**2**
E0411	**Logistics Systems**	**6**
E0902	**Case Studies in Industrial Engineering**	**3**
E0007	**Advanced Excel Applications**	**5**
E0412	**Advanced Project Management**	**6**
E0304	**Human Computer Interaction and User Experience**	**6**
E0305	**Business Simulation**	**6**
E0306	**Database Management Systems**	**6**
E0413	**Service Management**	**6**
E0509	**Managerial Skills for Industrial Engineers**	**5**
E0510	**Entrepreneurship for Industrial Engineers**	**4**
E0414	**Lean Management Principles and Practice**	**6**
E0511	**Case Studies in Managerial Finance**	**5**
CSE0406	**Mobile Programming**	**6**
CSE0440	**Artificial Intelligence**	**6**
CSE0448	**Big Data Analytics**	**6**
E0008	**Cryptocurrency and Blockchain**	**5**
E0105	**Pricing and Revenue Management**	**5**
E0206	**System Dynamics**	**6**
E0308	**Applied Business Process Management**	**5**
E0106	**Forecasting Methods and Applications**	**5**
E0107	**Applied Machine Learning**	**5**
E0702	**Business English Practice**	**4**
CSE0449	**Internet of Things**	**6**
CSE0496	**Graph Theory and Social Networking**	**6**
CSE0457	**Web Mining**	**6**
E0309	**IT Service Management**	**5**

SEÇİMLİK ALAN DERSLERİ (SA)

DERS KODU	DERS ADI	AKTS
ARC0101	**UTOPIA IN ARCHITECTURE**	**4**
ARC0102	**PSYCHOLOGY IN ARCHITECTURE**	**4**
ARC0103	**DESIGN CONCEPT RESEARCH IN ARCHITECTURE**	**4**
ARC0104	**ECOLOGY AND ARCHITECTURE**	**4**
ARC0105	**BEHAVIOURAL STUDIES AND ARCHITECTURE**	**4**
ARC0108	**CULTURE, HOUSING AND DESIGN**	**4**
ARC0109	**SPATIAL READING IN ARCHITECTURE**	**4**
ARC0110	**DISASTER AND HOUSE DESIGN**	**4**
ARC0116	**PORTFOLIO DESIGN**	**4**
ARC0118	**ARCHITECTURE AND SOCIETY**	**4**
ARC0119	**ANALYSIS OF URBAN FORM**	**4**
ARC0123	**SIMPLICITY AND COMPLEXITY IN ARCHITECTURE**	**4**
ARC0124	**DESIGN FOR ALL**	**4**
ARC0126	**DESIGN AND PRESENTATION STRATEGIES IN ARCHITECTURAL COMPETITIONS**	**4**
ARC0127	**NETWORK-ARCHITECTURE-CITY**	**4**
ARC0128	**MODELS OF HOUSING PRODUCTION IN TURKEY**	**4**
ARC0130	**CREATIVITY BY MODELLING**	**4**
ARC0132	**VALUE ARCHITECTURE CITY**	**4**
ARC0134	**Architecture- Innovation- Enterprise**	**4**
ARC0136	**BUILDING PROGRAMMING IN ARCHITECTURE**	**4**
ARC0137	**Spatial Organization in Architecture**	**4**
ARC0138	**Housing Design and Flexibility**	**4**
ARC0139	**INNOVATIVE AND ENTREPRENEURIAL APPROACHES IN DESIGN I**	**6**
ARC0140	**INNOVATIVE AND ENTREPRENEURIAL APPROACHES IN DESIGN II**	**6**
ARC0141	**INTERIOR DESIGN**	**4**
ARC0142	**FILM AND ARCHITECTURE 1**	**4**
ARC0143	**FILM AND ARCHITECTURE 2**	**4**
ARC0144	**WORLD CITIES AND ARCHITECTURE**	**4**
ARC0145	**ARCHITECTURAL PERSPECTIVE**	**4**
ARC0146	**FORM AND GEOMETRY IN ARCHITECTURE**	**4**
ARC0147	**SOLAR DECATHLON**	**4**
ARC0148	**SPATIAL SEGREGATION**	**4**
ARC0149	**SPECIAL ISSUES IN DESIGN**	**4**
ARC0150	**Narrative in Architecture**	**4**
ARC0151	**Sketch in Architecture**	**4**
ARC0152	**MODERNITY AND MODERNISM**	**4**
ARC0201	**PROJECT MANAGEMENT**	**4**
ARC0202	**EARTHQUAKE RESISTANT STRUCTURAL DESIGN**	**4**
ARC0203	**ACOUSTICAL PROBLEMS IN BUILDINGS AND NOISE CONTROL**	**4**
ARC0205	**CONTEMPORARY BUILDING MATERIALS**	**4**
ARC0206	**CONTEMPORARY BUILDING TECHNOLOGIES**	**4**
ARC0207	**THERMAL PROBLEMS OF BUILDINGS AND INSULATION**	**4**
ARC0209	**TIMBER CONSTRUCTION SYSTEMS**	**4**
ARC0210	**CHOOSING MATERIAL IN BUILDING**	**4**
ARC0213	**STRUCTURAL PROBLEMS OF TRADITIONAL BUILDINGS**	**4**
ARC0215	**DESIGN ECONOMICS**	**4**
ARC0216	**QUALITY IN BUILDING PRODUCTION PROCESS**	**4**
ARC0217	**STRUCTURAL BUILDING MATERIALS**	**4**
ARC0218	**PROJECT MANAGEMENT CYCLE**	**4**
ARC0219	**DESIGN MANAGEMENT**	**4**
ARC0220	**Theory and Practice**	**4**
ARC0221	**SOLAR CONTROL**	**4**
ARC0222	**LIGHTING FOR ART AND CULTURAL CENTERS**	**4**
ARC0223	**LAND SURVEYING**	**4**
ARC0224	**ARCHITECTURAL PROFESSION AND ENTREPRENEURSHIP**	**4**
ARC0303	**URBAN AND ARCHITECTURAL DEVELOPMENT OF ISTANBUL**	**4**
ARC0304	**URBAN HISTORY FROM MIDDLE AGES TO PRESENT**	**4**
ARC0305	**CITY AND ARCHITECTURE IN MODERNIZATION OF TURKEY**	**4**
ARC0307	**ARCHITECTURE OF MIMAR SINAN**	**4**
ARC0308	**OTTOMAN HOUSING ARCHITECTURE**	**4**
ARC0309	**CONSERVATION PROBLEMS IN ISTANBUL**	**4**
ARC0310	**CONSERVATION OF HISTORIC ENVIRONMENTS IN TURKEY AND IN THE WORLD**	**4**
ARC0311	**NEW DESIGN IN HISTORICAL ENVIRONMENTS**	**4**
ARC0314	**SUSTAINABILITY AND ARCHITECTURAL HERITAGE**	**4**
ARC0316	**CULTURAL HERITAGE IN ISTANBUL**	**4**
ARC0318	**MODERNIZATION AND HISTORY OF BUILDING TECHNOLOGY**	**4**
ARC0319	**ARCHITECTURE TODAY AND THE KNOWN ARCHITECTS**	**4**
ARC0320	**PALACE ARCHITECTURE IN ISTANBUL AND ITS CONSERVATION PROBLEMS**	**4**
ARC0321	**Cultural Interactions in the 18th and 19th Century Ottoman Architecture**	**4**
ARC0408	**URBAN STUDIES**	**4**
ARC0409	**URBAN MORPHOLOGY**	**4**
ARC0410	**ANALYSIS OF URBAN FORM**	**4**
ARC0411	**READINGS OF URBAN SPACE**	**4**
ARC0412	**CONTEMPORARY APPROACHES IN URBAN DESIGN**	**4**
ARC0413	**URBAN REGENERATION**	**4**
ARC0414	**The Political Economy of Urban Space**	**4**
ARC0415	**HOUSING-LED RENEWAL**	**4**
ARC0501	**VIRTUAL REALITY IN ARCHITECTURE**	**4**
ARC0503	**ADVANCED MODELLING TECHNIQUES**	**5**
ARC0504	**BUILDING INFORMATION MODELLING**	**5**
ARC0505	**ALGORITHM DESIGN**	**4**
ARC0506	**VISUAL COMMUNICATION IN ARCHITECTURE**	**5**
ARC0507	**ARCHITECTURE IN CYBERNETIC AGE**	**4**
ARC0620	**CONSTRUCTION DESIGN**	**6**
ARC0621	**CONSTRUCTION DESIGN**	**7**
ARC0630	**HISTORICAL SITE CONSERVATION PROJECT**	**5**
ARC0631	**HISTORICAL SITE CONSERVATION PROJECT**	**6**
ARC0640	**URBAN DESIGN PROJECT**	**5**
ARC0641	**URBAN DESIGN PROJECT**	**6**
ARC0701	**ARCHITECTURAL ENGLISH**	**4**
ARC0702	**ACADEMIC WRITING AND PRESENTATION**	**4**
ARC0801	**WORKSHOP 1**	**1**
ARC0802	**WORKSHOP 2**	**2**
ARC0803	**WORKSHOP III**	**3**
IAD0901	**INTERIOR DESIGN AND LANDSCAPE**	**4**
IAD0903	**HEATING AND VENTILATION**	**4**
IAD0904	**PRODUCT DESIGN**	**4**
IAD0905	**KITCHEN AND BATH DESIGN**	**4**
IAD0906	**GRAPHIC DESIGN**	**4**
IAD0907	**ENVIRONMENTAL PSYCHOLOGY**	**4**
IAD0908	**SPACE PLANNING**	**4**
IAD0909	**ERGONOMY**	**4**
IAD0910	**STAGE DESIGN**	**4**
IAD0911	**DESIGN FOR HANDICAPPED**	**4**
IAD0912	**FORM-TEXTURE-COLOR**	**4**
IAD0913	**SHOP WINDOW DESIGN**	**4**
IAD0914	**FAIRGROUND DESIGN**	**4**
IAD0915	**FASHION DESIGN**	**4**
IAD0916	**SEMIOLOGY**	**4**
IAD0917	**DISASTER MANAGEMENT**	**4**
IAD0918	**YATCH-BOAT DESIGN**	**4**
IAD0919	**SPECIAL TOPICS IN INTERIOR DESIGN**	**4**
IAD0920	**COLOR AND INTERIOR DESIGN**	**4**
IAD0921	**PROJECT DEVELOPMENT AND FEASIBILITY**	**4**
IAD0922	**ENVIRONMENTAL TOPOGRAPHY**	**4**
IAD0923	**ENVIRONMENTAL INFORMATICS**	**4**
IAD0924	**CRITICAL THINKING**	**4**
IAD0925	**MODEL MAKING**	**4**
IAD0926	**CULTURE AND ENVIRONMENT**	**4**
IAD0927	**ENVIRONMENTAL DESIGN**	**4**
IAD0928	**ART AND SCIENCE**	**4**
IAD0929	**ENVIRONMENT AND PLANNING LAW**	**4**
IAD0930	**DESIGN FOR CHILDREN AND ELDERLY**	**4**
IAD0931	**DETAIL DESIGN**	**4**
IAD0932	**CONSTRUCTION**	**4**
IAD0933	**HISTORY OF FURNITURE**	**4**
IAD0934	**FURNITURE DESIGN**	**4**
IAD0935	**XX.CENTURY ARCHITECTURE**	**4**
IAD0936	**BASIC DESIGN AND SPACE**	**4**
IAD0937	**CREATIVE THINKING AND DESIGN**	**4**
IAD0938	**CURRENT APPROACHES IN SHOP DESIGN**	**4**
IAD0939	**LIVEABILITY IN HOUSE DESIGN**	**4**
IAD0940	**PORTFOLIO DESIGN IN INTERIOR ARCHITECTURE**	**4**
IAD0941	**COLOR AND PRESENTATION TECHNIQUES**	**4**
IAD0942	**SPACE-BODY INTERACTION**	**4**
IAD0943	**SUSTAINABLE DESIGN IN INTERIOR ARCHITECTURE**	**4**
IAD0944	**URBAN INTERIORS**	**4**
IAD0945	**ENERGY EFFICIENT DESIGN APPROACH**	**4**
IAD0946	**BIOMIMETIC DESIGN**	**4**
IAD0947	**STUDIO WORKSHOP I**	**4**
IAD0948	**STUDIO WORKSHOP II**	**4**
IAD0949	**ARCHITECTURAL PHOTOGRAPHY**	**4**
IAD0950	**ARCHITECTURAL ANALYSIS**	**4**
IAD0951	**EXHIBITION DESIGN**	**4**
IAD0952	**CORPORATE IDENTITY & BRANDING IN INTERIOR DESIGN**	**4**
IAD0953	**INTERIOR AND FURNITURE**	**4**
IAD0954	**ARCHITECTURAL ANIMATION TECHNIQUES**	**4**
IAD0955	**PERSPECTIVE IN INTERIOR ARCHITECTURE**	**4**
IAD0956	**ADVANCED PRESENTATION TECHNIQUES IN THE INTERIOR**	**4**
IAD0957	**PRACTICAL WORKSHOP**	**4**
IAD0958	**ENTREPRENEURSHIP IN INTERIOR ARCHITECTURE**	**4**
IAD0959	**HOUSING DESIGN AND PRODUCTION**	**4**
IAD0960	**HOUSING CULTURE AND HISTORY**	**4**
IAD0961	**DESIGN CULTURE**	**4**

EŞDEĞER DERSLER (SA) SEÇİMLİK DERSLER

DERS KODU	DERS ADI	AKTS

ÇİFT ANADALINDA ALACAĞI (SA) SEÇİMLİK DERSLER

DERS KODU	DERS ADI	AKTS
E0005	**Introduction to Fuzzy Modelling**	**5**
E0006	**Data Structures and Programming**	**5**
E0104	**Introduction to Data Mining**	**6**
E0204	**Case Studies in Mathematical Modelling**	**6**
E0205	**Introduction to Decision Analysis**	**6**
E0301	**Systems Analysis**	**5**
E0302	**Enterprise Resource Planning**	**5**
E0303	**Management Information Systems**	**5**
E0307	**Technology Management**	**5**
E0402	**Ergonomics**	**6**
E0407	**Work Study**	**6**
E0408	**Scheduling Applications in Manufacturing and Serv**	**6**
E0409	**Project Management**	**6**
E0410	**Quality Planning and Analysis**	**5**
E0504	**Strategic Management**	**5**
E0505	**Marketing Management**	**5**
E0506	**Introduction to Business Management**	**4**
E0507	**Organizational Behaviour and Human Resources**	**4**
E0508	**Labor Law**	**4**
E0604	**Computer Integrated Manufacturing Systems**	**5**
E0605	**Advanced Manufacturing Systems**	**6**
E0606	**Manufacturing Techniques**	**5**
E0607	**Industrial Applications of Nanotechnology**	**6**
E0608	**Introduction to Renewable Energy**	**6**
E0609	**Introduction to Energy Management**	**5**
E0701	**Academic Writing and Presentation Skills**	**5**
E0901	**Special Topics in Industrial Engineering**	**2**
E0411	**Logistics Systems**	**6**
E0902	**Case Studies in Industrial Engineering**	**3**
E0007	**Advanced Excel Applications**	**5**
E0412	**Advanced Project Management**	**6**
E0304	**Human Computer Interaction and User Experience**	**6**
E0305	**Business Simulation**	**6**
E0306	**Database Management Systems**	**6**
E0413	**Service Management**	**6**
E0509	**Managerial Skills for Industrial Engineers**	**5**
E0510	**Entrepreneurship for Industrial Engineers**	**4**
E0414	**Lean Management Principles and Practice**	**6**
E0511	**Case Studies in Managerial Finance**	**5**
CSE0406	**Mobile Programming**	**6**
CSE0440	**Artificial Intelligence**	**6**
CSE0448	**Big Data Analytics**	**6**
E0008	**Cryptocurrency and Blockchain**	**5**
E0105	**Pricing and Revenue Management**	**5**
E0206	**System Dynamics**	**6**
E0308	**Applied Business Process Management**	**5**
E0106	**Forecasting Methods and Applications**	**5**
E0107	**Applied Machine Learning**	**5**
E0702	**Business English Practice**	**4**
CSE0449	**Internet of Things**	**6**
CSE0496	**Graph Theory and Social Networking**	**6**
CSE0457	**Web Mining**	**6**
E0309	**IT Service Management**	**5**
MTH0001	**Introduction to Process Mining**	**4**
MTH0002	**Digital Transformation and Industry 4.0**	**4**
E0415	**Sustainability Management**	**5**

MİMARLIK BÖLÜMÜ (İNGİLİZCE) MEZUNİYET İÇİN ALINMASI GEREKEN SA DERSLERİ

DERS KODU	DERS ADI	AKTS
ARC0620	**CONSTRUCTION DESIGN**	**6**
ARC0630	**HISTORICAL SITE CONSERVATION PROJECT**	**5**
ARC0640	**URBAN DESIGN PROJECT**	**5**

DİKKAT: ÇAP öğrencisinin ikinci anadal ders planından alması gereken derslerin AKTS toplamı en az 60 olmalıdır.

Kurallar: 1) Endüstri Mühendisliği Bölümü Önkoşullu Dersler için öğrencinin önkoşul olan dersi almış ve en az D- başarı notu ile tamamlamış olması gerekir.

DERS KODU	DERS ADI	ÖNKOŞUL DERS KODU	ÖNKOŞUL DERS ADI
IE3101	Introduction to Probability	MCB1002	Calculus II
IE3003	Object Oriented Programming	IE2002	Introduction to Programming
IE4004	Numerical Analysis for Industrial Engineers	MCB1002 IE2002	Calculus II Introduction to Programming
IE4102	Statistics for Engineers	IE3101	Introduction to Probability
IE5202	Operations Research II	IE3101	Introduction to Probability
IE6103	Design of Experiments	IE4102	Statistics for Engineers
IE6404	Production Planning and Control	IE4201	Operations Research I
IE7203	Simulation Modelling	IE4102	Statistics for Engineers
IE7405	Supply Chain Management	IE6404	Production Planning and Control
IE7803	Industrial Training II	IE6404	Production Planning and Control
IE8406	Quality Engineering	IE4102	Statistics for Engineers
IE0302	Enterprise Resource Planning	IE6404	Production Planning and Control
IE0605	Advanced Manufacturing Systems	IE4201	Operations Research I
IE0104	Introduction to Data Mining	IE3101	Introduction to Probability
IE0006	Data Structures and Programming	IE2002	Introduction to Programming
IE0205	Introduction to Decision Analysis	IE3101	Introduction to Probability
IE0412	Advanced Project Management	IE0409	Project Management
IE0414	Lean Management Principles and Practice	IE4102	Statistics for Engineers
IE0511	Case Studies in Managerial Finance	IE3502	Financial and Cost Accounting
IE0106	Forecasting Methods and Applications	IE3101	Introduction to Probability
IE0107	Applied Machine Learning for Engineering and Design	IE3101	Introduction to Probability
IE0308	Applied Business Process Management	IE3101	Introduction to Probability