

DOUBLE MAJOR PROGRAM FOR COMPUTER ENGINEERING DEPARTMENT STUDENTS
BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ ÖĞRENCİLERİ İÇİN-ÇİFT ANADAL PROGRAMI

	Code	Course Title	T	R	C	ECTS
1	ME 113	Computer Aided Engineering Drawing I	2	2	3	6
2	ME 114	Computer Aided Engineering Drawing II	2	2	3	4
3	ME 202	Strength of Materials	3	0	3	5
4	ME 203	Statics	3	0	3	6
5	ME 206	Dynamics	3	0	3	5
6	ME 210	Manufacturing Processes	3	2	4	5
7	ME 211	Thermodynamics I	3	0	3	6
8	ME 212	Thermodynamics II	3	0	3	7
9	ME 225	Introduction to Materials Science	3	0	3	5
10	ME 301	Theory of Machines I	3	0	3	4
11	ME 302	Theory of Machines II	3	0	3	5
12	ME 303	Fluid Mechanics I	3	0	3	5
13	ME 304	Fluid Mechanics II	3	0	3	5
14	ME 307	Machine Elements I	3	0	3	5
15	ME 308	Machine Elements II	3	0	3	5
16	ME 312	Experimentation and Measurement	3	2	4	5
17	ME 313	Heat Transfer	4	0	4	4
18	ME 386	Introduction to Automatic Control	3	0	3	5
19	ME 407	Innovative Engineering Analysis and Design	1	4	3	4
20	ME 413	Mechanical Engineering Laboratory I	1	4	3	5
21	ME 408	Innovative Engineering Design and Implementation	2	4	4	7
22	ME 414	Mechanical Engineering Laboratory II	1	4	3	5
23	IE446	Project Engineering Management	3	0	3	4
24	Elective	Restricted Elective I(*)	3	0	3	5
25	Elective	Restricted Elective II(**)	3	0	3	5
26	Elective	Restricted Elective III(**)	3	0	3	5
27	Elective	ME Technical Elective	3	0	3	5
28	ME 200	Summer Training I	0	0	0	5

TOTAL COURSE/DERS SAYISI	28
TOTAL CREDIT/TOPLAM KREDİ	85
TOTAL ECTS/TOPLAM AKTS	142

(*) Students should take at least one course among ME 402 “Introduction to Finite Element Analysis” and ME 463 “Computational Fluid Dynamics”.

(**) Students must take at least one course from Thermal System Design Courses (ME415 Design of Thermal System, ME430 Application of solar Energy, ME433 Fluid Machinery, ME458 Heating, Cooling and Ventilation Systems) and at least one course from Mechanical System Design Courses (ME403 Design of Composite Structures, ME416 Design of Mechanical Systems, ME417 Design of Mechanisms and Machines, ME422 Automated Material Handling and Storage Systems Mechanical Design, ME445 Computer Aided Design, ME423 Industrial Fluid Power, ME481 Design and Fabrication of Microelectromechanical Systems) to fulfill the thermal and mechanical systems design criteria.

DOUBLE MAJOR PROGRAM FOR ELECTRICAL AND ELECTRONICS ENGINEERING STUDENTS
ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ ÖĞRENCİLERİ İÇİN ÇİFT ANADAL PROGRAMI

	Code	Course Title	T	R	C	ECTS
1	ME 113	Computer Aided Engineering Drawing I	2	2	3	6
2	ME 114	Computer Aided Engineering Drawing II	2	2	3	4
3	ME 202	Strength of Materials	3	0	3	5
4	ME 203	Statics	3	0	3	6
5	ME 206	Dynamics	3	0	3	5
6	ME 210	Manufacturing Processes	3	2	4	5
7	ME 211	Thermodynamics I	3	0	3	6
8	ME 212	Thermodynamics II	3	0	3	7
9	ME 225	Introduction to Materials Science	3	0	3	5
10	ME 301	Theory of Machines I	3	0	3	4
11	ME 302	Theory of Machines II	3	0	3	5
12	ME 303	Fluid Mechanics I	3	0	3	5
13	ME 304	Fluid Mechanics II	3	0	3	5
14	ME 307	Machine Elements I	3	0	3	5
15	ME 308	Machine Elements II	3	0	3	5
16	ME 312	Experimentation and Measurement	3	2	4	5
17	ME 313	Heat Transfer	4	0	4	4
18	ME 407	Innovative Engineering Analysis and Design	1	4	3	4
19	ME 413	Mechanical Engineering Laboratory I	1	4	3	5
20	ME 408	Innovative Engineering Design and Implementation	2	4	4	7
21	ME 414	Mechanical Engineering Laboratory II	1	4	3	5
22	IE446	Project Engineering Management	3	0	3	4
23	Elective	Restricted Elective I(*)	3	0	3	5
24	Elective	Restricted Elective II(**)	3	0	3	5
25	Elective	Restricted Elective III(**)	3	0	3	5
26	Elective	ME Technical Elective	3	0	3	5
27	ME 200	Summer Training I	0	0	0	5

TOTAL COURSE/TOPLAM DERS	27
TOTAL CREDIT/TOPLAM KREDİ	82
TOTAL ECTS/TOPLAM AKTS	137

(*) Students should take at least one course among ME 402 “Introduction to Finite Element Analysis” and ME 463 “Computational Fluid Dynamics”.

(**) Students must take at least one course from Thermal System Design Courses (ME415 Design of Thermal System, ME430 Application of solar Energy, ME433 Fluid Machinery, ME458 Heating, Cooling and Ventilation Systems) and at least one course from Mechanical System Design Courses (ME403 Design of Composite Structures, ME416 Design of Mechanical Systems, ME417 Design of Mechanisms and Machines, ME422 Automated Material Handling and Storage Systems Mechanical Design, ME445 Computer Aided Design, ME423 Industrial Fluid Power, ME481 Design and Fabrication of Microelectromechanical Systems) to fulfill the thermal and mechanical systems design criteria.

DOUBLE MAJOR PROGRAM FOR INDUSTRIAL ENGINEERING DEPARTMENT STUDENTS
ENDÜSTRİ MÜHENDİSLİĞİ BÖLÜMÜ ÖĞRENCİLERİ İÇİN-ÇİFT ANADAL PROGRAMI

	Code	Course Title	T	R	C	ECTS
1	ME 114	Computer Aided Engineering Drawing II	2	2	3	4
2	ME 202	Strength of Materials	3	0	3	5
3	ME 203	Statics	3	0	3	6
4	ME 205	Introduction to Electronics and Artificial Intelligence (AI) for Mechanical Engineers	3	2	4	6
5	ME 206	Dynamics	3	0	3	4
6	ME 210	Manufacturing Processes	3	2	4	5
7	ME 211	Thermodynamics I	3	0	3	5
8	ME 212	Thermodynamics II	3	0	3	7
9	ME 225	Introduction to Materials Science	3	0	3	5
10	ME 301	Theory of Machines I	3	0	3	4
11	ME 302	Theory of Machines II	3	0	3	5
12	ME 303	Fluid Mechanics I	3	0	3	5
13	ME 304	Fluid Mechanics II	3	0	3	5
14	ME 307	Machine Elements I	3	0	3	5
15	ME 308	Machine Elements II	3	0	3	5
16	ME 312	Experimentation and Measurement	3	2	4	5
17	ME 313	Heat Transfer	4	0	4	4
18	ME 386	Introduction to Automatic Control	3	0	3	5
19	ME 407	Innovative Engineering Analysis and Design	1	4	3	4
20	ME 413	Mechanical Engineering Laboratory I	1	4	3	5
21	ME 408	Innovative Engineering Design and Implementation	2	4	4	7
22	ME 414	Mechanical Engineering Laboratory II	1	4	3	5
23	Elective	Restricted Elective I(*)	3	0	3	5
24	Elective	Restricted Elective II(**)	3	0	3	5
25	Elective	Restricted Elective III(**)	3	0	3	5
26	Elective	ME Technical Elective	3	0	3	5
27	ME 200	Summer Training I	0	0	0	5

TOTAL COURSE / TOPLAM DERS	27
TOTAL CREDIT / TOPLAM KREDİ	83
TOTAL ECTS / TOPLAM AKTS	136

(*) Students should take at least one course among ME 402 "Introduction to Finite Element Analysis" and ME 463 "Computational Fluid Dynamics".

(**) Students must take at least one course from Thermal System Design Courses (ME415 Design of Thermal System, ME430 Application of solar Energy, ME433 Fluid Machinery, ME458 Heating, Cooling and Ventilation Systems) and at least one course from Mechanical System Design Courses (ME403 Design of Composite Structures, ME416 Design of Mechanical Systems, ME417 Design of Mechanisms and Machines, ME422 Automated Material Handling and Storage Systems Mechanical Design, ME445 Computer Aided Design, ME423 Industrial Fluid Power, ME481 Design and Fabrication of Microelectromechanical Systems) to fulfill the thermal and mechanical systems design criteria.

DOUBLE MAJOR PROGRAM FOR CIVIL ENGINEERING DEPARTMENT STUDENTS
İNŞAAT MÜHENDİSLİĞİ BÖLÜMÜ ÖĞRENCİLERİ İÇİN-ÇİFT ANADAL PROGRAMI

	Code	Course Title	T	R	C	ECTS
1	ME 114	Computer Aided Engineering Drawing II	2	2	3	4
2	ME 205	Introduction to Electronics and Artificial Intelligence (AI) for Mechanical Engineers	3	2	4	6
3	ME 210	Manufacturing Processes	3	2	4	5
4	ME 211	Thermodynamics I	3	0	3	6
5	ME 212	Thermodynamics II	3	0	3	7
6	ME 225	Introduction to Materials Science	3	0	3	5
7	ME 301	Theory of Machines I	3	0	3	4
8	ME 302	Theory of Machines II	3	0	3	5
9	ME 307	Machine Elements I	3	0	3	5
10	ME 308	Machine Elements II	3	0	3	5
11	ME 312	Experimentation and Measurement	3	2	4	5
12	ME 313	Heat Transfer	4	0	4	4
13	ME 386	Introduction to Automatic Control	3	0	3	5
14	ME 407	Innovative Engineering Analysis and Design	1	4	3	4
15	ME 408	Innovative Engineering Design and Implementation	2	4	4	7
16	ME 413	Mechanical Engineering Laboratory I	1	4	3	5
17	ME 414	Mechanical Engineering Laboratory II	1	4	3	5
18	Elective	Restricted Elective I(*)	3	0	3	5
19	Elective	Restricted Elective II(**)	3	0	3	5
20	Elective	Restricted Elective III(**)	3	0	3	5
21	Elective	ME Technical Elective	3	0	3	5
22	ME 200	Summer Training I	0	0	0	5

TOTAL COURSE / TOPLAM DERS	22
TOTAL CREDIT / TOPLAM KREDİ	68
TOTAL ECTS / TOPLAM AKTS	112

(*) Students should take at least one course among ME 402 “Introduction to Finite Element Analysis” and ME 463 “Computational Fluid Dynamics”.

(**) Students must take at least one course from Thermal System Design Courses (ME415 Design of Thermal System, ME430 Application of solar Energy, ME433 Fluid Machinery, ME458 Heating, Cooling and Ventilation Systems) and at least one course from Mechanical System Design Courses (ME403 Design of Composite Structures, ME416 Design of Mechanical Systems, ME417 Design of Mechanisms and Machines, ME422 Automated Material Handling and Storage Systems Mechanical Design, ME445 Computer Aided Design, ME423 Industrial Fluid Power, ME481 Design and Fabrication of Microelectromechanical Systems) to fulfill the thermal and mechanical systems design criteria.

FOR MECHATRONICS ENGINEERING DEPARTMENT STUDENTS-DOUBLE MAJOR PROGRAM
MEKATRONİK MÜHENDİSLİĞİ BÖLÜMÜ ÖĞRENCİLERİ İÇİN-ÇİFT ANADAL PROGRAMI

	Ders kodu	Dersin Adı	T	U	K	AKTS
1	ME 211	Thermodynamics I	3	0	3	6
2	ME 212	Thermodynamics II	3	0	3	7
3	ME 225	Introduction to Materials Science	3	0	3	5
4	ME 302	Theory of Machines II	3	0	3	5
5	ME 303	Fluid Mechanics I	3	0	3	4
6	ME 304	Fluid Mechanics II	3	0	3	5
7	ME 312	Experimentation and Measurement	3	2	4	5
8	ME 313	Heat Transfer	4	0	4	4
9	ME 331	Numerical Methods for Mechanical Engineers	3	0	3	5
10	ME 407	Innovative Engineering Analysis and Design	1	4	3	5
11	ME 413	Mechanical Engineering Laboratory I	1	4	3	5
12	ME 408	Innovative Engineering Design and Implementation	2	4	4	7
13	ME 414	Mechanical Engineering Laboratory II	1	4	3	5
14	Elective	Restricted Elective I (*)	3	0	3	5
15	Elective	Restricted Elective II (**)	3	0	3	5
16	Elective	Restricted Elective III (**)	3	0	3	5
17	Elective	Technical Elective (**)	3	0	3	5
18	ME 200	Summer Training I	0	0	0	5

TOTAL COURSE /TOPLAM DERS	18
TOTAL CREDIT / TOPLAM KREDİ	54
TOTAL ECTS / TOPLAM AKTS	93

(*) Students should take at least one course among ME 402 “Introduction to Finite Element Analysis” and ME 463 “Computational Fluid Dynamics”.

(**) Students must take at least one course from Thermal System Design Courses (ME415 Design of Thermal System, ME430 Application of solar Energy, ME433 Fluid Machinery, ME458 Heating, Cooling and Ventilation Systems) and at least one course from Mechanical System Design Courses (ME403 Design of Composite Structures, ME416 Design of Mechanical Systems, ME417 Design of Mechanisms and Machines, ME422 Automated Material Handling and Storage Systems Mechanical Design, ME445 Computer Aided Design, ME423 Industrial Fluid Power, ME481 Design and Fabrication of Microelectromechanical Systems) to fulfill the thermal and mechanical systems design criteria.

DOUBLE MAJOR PROGRAM FOR SOFTWARE ENGINEERING DEPARTMENT STUDENTS
YAZILIM MÜHENDİSLİĞİ BÖLÜMÜ ÖĞRENCİLERİ İÇİN ÇİFT ANADAL PROGRAMI

	Code	Course Title	T	R	C	ECTS
1	ME 113	Computer Aided Engineering Drawing I	2	2	3	6
2	ME 114	Computer Aided Engineering Drawing II	2	2	3	4
3	ME 202	Strength of Materials	3	0	3	5
4	ME 203	Statics	3	0	3	6
5	ME 206	Dynamics	3	0	3	5
6	ME 210	Manufacturing Processes	3	2	4	5
7	ME 211	Thermodynamics I	3	0	3	6
8	ME 212	Thermodynamics II	3	0	3	7
9	ME 225	Introduction to Materials Science	3	0	3	5
10	ME 301	Theory of Machines I	3	0	3	4
11	ME 302	Theory of Machines II	3	0	3	5
12	ME 303	Fluid Mechanics I	3	0	3	5
13	ME 304	Fluid Mechanics II	3	0	3	5
14	ME 307	Machine Elements I	3	0	3	5
15	ME 308	Machine Elements II	3	0	3	5
16	ME 312	Experimentation and Measurement	3	2	4	5
17	ME 313	Heat Transfer	4	0	4	4
18	ME331	Numerical Methods for Mechanical Engineers	3	0	3	5
19	ME 407	Innovative Engineering Analysis and Design	1	4	3	4
20	ME 408	Innovative Engineering Design and Implementation	2	4	4	7
21	ME 413	Mechanical Engineering Laboratory I	1	4	3	5
22	ME 414	Mechanical Engineering Laboratory II	1	4	3	5
23	IE446	Project Engineering Management	3	0	3	4
24	Elective	Restricted Elective I(*)	3	0	3	5
25	Elective	Restricted Elective II(**)	3	0	3	5
26	Elective	Restricted Elective III(**)	3	0	3	5
27	Elective	ME Technical Elective	3	0	3	5
28	ME 200	Summer Training I	0	0	0	5

TOTAL COURSE/DERS SAYISI	28
TOTAL CREDIT/TOPLAM KREDİ	85
TOTAL ECTS/TOPLAM AKTS	142

(*) Students should take at least one course among ME 402 “Introduction to Finite Element Analysis” and ME 463 “Computational Fluid Dynamics”.

(**) Students must take at least one course from Thermal System Design Courses (ME415 Design of Thermal System, ME430 Application of solar Energy, ME433 Fluid Machinery, ME458 Heating, Cooling and Ventilation Systems) and at least one course from Mechanical System Design Courses (ME403 Design of Composite Structures, ME416 Design of Mechanical Systems, ME417 Design of Mechanisms and Machines, ME422 Automated Material Handling and Storage Systems Mechanical Design, ME445 Computer Aided Design, ME423 Industrial Fluid Power, ME481 Design and Fabrication of Microelectromechanical Systems) to fulfill the thermal and mechanical systems design criteria.