

MANİSA CELAL BAYAR ÜNİVERSİTESİ
MANİSA TEKNİK BİLİMLER MESLEK YÜKSEKOKULU
MAKİNE VE METAL TEKNOLOJİLERİ BÖLÜMÜ
ENDÜSTRİYEL KALIPÇILIK PROGRAMI

2021 ÖĞRETİM PLANI

1.Sınıf 1. Yarıyıl							
Türkçe/İngilizce Ders Kodu	Türkçe Ders Adı	İngilizce Ders Adı	T	U	S	K	AKTS
EKT 1101	Fizik	Physics	2	0	2	2	3
EKT 1103	Mesleki Matematik	Mathematics For Technicians	3	0	3	3	4
EKT 1105	Teknik Resim	Technical Drawing	3	1	4	4	6
EKT 1107	İmalat İşlemleri	Manufacturing Processes	3	1	4	4	6
EKT 1109	Ölçme ve Kontrol	Measurement and Control	1	1	2	2	3
EKT 1111	Bilgisayar Destekli Çizim 1	Computer Aided Drawing 1	2	1	3	3	4
EKT 1113	Meslek Etiği	Professional Ethics	1	0	1	1	1
EKT 1001	Seçmeli Dersler	Elective Courses	2	0	2	2	3
<i>EKT 1201</i>	<i>Bilgi Teknolojileri</i>	<i>Information Technology</i>	2	0	2	2	3
<i>EKT 1203</i>	<i>İleri İmalat Teknolojisi 1</i>	<i>Advanced Manufacturing Technology 1</i>	2	0	2	2	3
<i>EKT 1205</i>	<i>Kalite Güvencesi ve Standartlar</i>	<i>Quality Assurance And Standards</i>	2	0	2	2	3
Toplam			17	4	21	21	30

1.Sınıf 2.Yarıyıl							
Türkçe/İngilizce Ders Kodu	Türkçe Ders Adı	İngilizce Ders Adı	T	U	S	K	AKTS
EKT 1102	Bilgisayar Destekli Çizim 2	Computer Aided Design 2	2	1	3	3	5
EKT 1104	Saç Metal Kalıpçılık Tekniği	Sheet Metal Dyeing Techniques	4	2	6	6	8
EKT 1106	Makine Meslek Resmi	Machine Drawing	2	1	3	3	4
EKT 1108	Malzeme Teknolojisi	Material Technology	2	0	2	2	3
EKT 1110	Mukavemet	Strength Of Materials	2	0	2	2	3
EKT 1112	Bilgisayar Destekli Üretim 1	Computer Aided Manufacture 1	2	1	3	3	4
EKT 1004	Teknik Olmayan Seçmeli Dersler	Non-Technical Elective Courses	2	0	2	2	3
<i>EKT 1202</i>	<i>Çevre Koruma</i>	<i>Environmental Protection</i>	2	0	2	2	3
<i>EKT 1204</i>	<i>İlk Yardım</i>	<i>First Aid</i>	2	0	2	2	3
<i>EKT 1206</i>	<i>Girişimcilik</i>	<i>Entrepreneurship</i>	2	0	2	2	3
Toplam			16	5	21	21	30

Doç. Dr. İbrahim AYDIN
Bölüm Başkanı



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2.Sınıf 3.Yarıyıl							
Türkçe/İngilizce Ders Kodu	Türkçe Ders Adı	İngilizce Ders Adı	T	U	S	K	AKTS
EKT 2101	Bilgisayar Destekli Üretim 2	Computer Aided Manufacture 2	2	1	3	3	4
EKT 2103	Enjeksiyon Kalıpçılığı	Injection Molding	4	2	6	6	8
EKT 2105	CNC Freze Teknolojisi	CNC Milling Technology	2	1	3	3	4
EKT 2107	Hidrolik - Pnömatik	Hydraulic Pnoumatic	2	1	3	3	4
EKT 2109	Araştırma Yöntem ve Teknikleri	Research Methods and Techniques	2	0	2	2	3
EKT 2111	Sosyal Sorumluluk	Social Responsibility	1	0	1	1	1
EKT 2113	İş Sağlığı ve Güvenliği	Occupational Health and Safety	2	0	2	2	3
EKT 2003	Teknik Seçmeli Dersler	Technical Elective Courses	2	0	2	2	3
EKT 2201	Dövme Kalıpçılığı	Forging Molding	2	0	2	2	3
EKT 2203	Kalıp Malzemeleri ve Isıl İşlem Bilgisi	Mould Materials and Heat Treatment Information	2	0	2	2	3
EKT 2205	Kaynak Teknolojisi	Welding Technology	2	0	2	2	3
EKT 2207	Kesici Takım Teknolojisi	Cutting Tools Tecnology	2	0	2	2	3
EKT 2209	İleri İmalat Teknolojisi 2	Advanced Manufacturing Technology 2	2	0	2	2	3
EKT 2211	Özel Üretim Yöntemleri	Special Manufacturing Methods	2	0	2	2	3
EKT 2213	Plastik Şişirme ve Ektürizyon Kalıplama	Plastic Blow Molding and Extrusion	2	0	2	2	3
Toplam			17	5	22	22	30

2.Sınıf 4.Yarıyıl							
Türkçe/İngilizce Ders Kodu	Türkçe Ders Adı	İngilizce Ders Adı	T	U	S	K	AKTS
MYO 2002	İşletmede Mesleki Eğitim	Vocational Training in Workplace	5	0	5	4	18
AİT 2102	Atatürk İlkeleri ve İnkılap Tarihi	Atatürk's Principles and History of Revolution	4	0	4	4	4
TDL 2102	Türk Dili	Turkish Language	4	0	4	4	4
YDI 2102	Yabancı Dil	Foreing Language	4	0	4	4	4
Toplam			17	0	17	16	30
Genel Toplam			67	14	81	80	120

T: Teori **U:** Uygulama **S:** Ders Saati **K:** Ulusal Kredi **AKTS:** Avrupa Kredi Transfer Sistemi

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MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding Physics

General Description

Course Name	: Physics
Course Code	: EKT 1101
Qualification Level	: Short Cycle
Qualification Degree	: PreBachelor Degree
Course Language	: Turkish
Theoretical Credits	: 2
Laboratory Credits	: 0
Practice Credits	: 0
ECTS	: 3
Name of Lecturer	: Instructor Gazi BÜYÜKTAŞ
Type of Course Unit	: Compulsory
Mode of Delivery	: Face-To-Face
Prerequisite and Co-requisites	: N/A
Objectives of the Course	: Objective is to achieve a good understanding of basic concepts and to be able to apply these concepts to a variety of physical situations. Students will acquire skills in scientific methods, critical reasoning and problem solving.
Course Contents	: Unit systems; Vector, Force, Moment; Balance and Balance conditions; Center of gravity; Laws of movement; Work, Power, Energy; Heat and Temperature; Types of Heat Transfer and Heat Transfer(Conduction, Convection and Radiation); Basic Fluid Properties, Stream Flow Types and Account; Channel and Pipe Flow; Pressure Drop
Recommended or Required Reading	: 1) Physics 1, Raymond A. Serway , Robert J. Beichner ,Çev :(Prof. Dr. Kemal Çolakoğlu) PALME PUBLISHING 2) Scientific Principles of General Physics and Technology Hakan Şevki AYVACI, Yüksel ÇEKBAŞ, Pegem A Publishing 3)Mechanical Statics for Engineers, Prof. Dr. F.P.BEER; Prof. Dr. E.R.JOHNSTON, Çev. Prof. Dr. F.KESKİNEL, Doç. Dr. Tekin ÖZBEK, BİRSEN PUBLISHER 4)Dynamics Durmuş Günay, Alpay Aydemir; Değişim publications, 1998 5)Engineering Mechanics, S.TIMOSHENKO; D.H. YOUNG, Çev: (Prof. Dr. İlhan KAYAN), İTÜ publications
Planned Learning Activities and Teaching Methods	: Face to face, Presentation, Seminar, Project, Laboratory Applications (if necessary) Lectures, Practical Courses,
Recommended Optional Programme Components	:

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to understand basic physical laws and learn to use these laws in daily life
- 2 - To be able to apply basic mathematical methods in problem solving

Bu belge, güvenli elektronik imza ile imzalanmıştır.
Evrap sorgulaması <https://turkiye.gov.tr/ebd?ek=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



4 - To be able to separate static and dynamic systems from each other

5 - To be able to make calculations about thermal and fluid systems

Weekly Course Contents

Theoretical : Introduction (Unit systems and conversions, Basic concepts)

Week 1 Practice :

Laboratory :

Theoretical : Vector, Force, Moment

Week 2 Practice :

Laboratory :

Theoretical : Vector, Force, Moment

Week 3 Practice :

Laboratory :

Theoretical : Balance and Balance conditions;

Week 4 Practice :

Laboratory :

Theoretical : Center of gravity

Week 5 Practice :

Laboratory :

Theoretical : Laws of movement

Week 6 Practice :

Laboratory :

Theoretical : Laws of movement

Week 7 Practice :

Laboratory :

Theoretical : Midterm-exam

Week 8 Practice :

Laboratory :

Theoretical : Work, Power, Energy

Week 9 Practice :

Laboratory :

Theoretical : Heat and Temperature

Week 10 Practice :

Laboratory :

Week 11 Theoretical : Heat and Temperature

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Laboratory :

Theoretical : Types of Heat Transfer and Heat Transfer(Conduction, Convection and Radiation

Week 12 Practice :

Laboratory :

Theoretical : Types of Heat Transfer and Heat Transfer(Conduction, Convection and Radiation

Week 13 Practice :

Laboratory :

Theoretical : Stream Flow Types and Account Channel and Pipe Flow

Week 14 Practice :

Laboratory :

Theoretical : Stream Flow Types and Account Channel and Pipe Flow

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	2,00
Final	No	1	2,00
Individual study before lecture	Yes	14	14,00
Individual study after lecture	Yes	14	14,00
Quizzes	Yes	1	2,00
Attending lectures	Yes	14	42,00
Preparation for final	Yes	1	10,00
Preparation for midterm	Yes	1	6,00
Total Hours			92,00
ECTS			3,00

Program and Learning Outcomes Relations

1	2	3	4	5	6	7	8	9	10	11
1	0	4	0	0	0	1	0	5	0	0
2	0	3	1	0	0	0	0	4	0	0
3	0	4	1	0	0	1	0	4	0	0
4	2	4	0	0	0	4	0	4	0	0
5	1	2	0	0	0	1	0	5	0	0

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MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Mathematics For Technicians

General Description

Course Name	: Mathematics For Technicians
Course Code	: EKT 1103
Qualification Level	: Short Cycle
Qualification Degree	: PreBachelor Degree
Course Language	: Turkish
Theoretical Credits	: 3
Laboratory Credits	: 0
Practice Credits	: 0
ECTS	: 4
Name of Lecturer	: Instructor Gazi BÜYÜKTAŞ
Type of Course Unit	: Compulsory
Mode of Delivery	: Face-To-Face
Prerequisite and Co-requisites	: N/A
Objectives of the Course	: Aim of this course is to teach adequate and efficient mathematics to create an infrastructure for students.
Course Contents	: Algebra, polynomials, Ratio and proportion, Equations and Inequalities, total symbol, multiplication symbol, sequences, Basic geometry, basic trigonometry, Parabola
Recommended or Required Reading	: textbook Balcı, M.Analiz I, Balcı Publishing, 2001 F. AYRES, Calculus Schaums Outline Series, 1979 D. ÇOKER, General Mathematics I, Detay Publishing
Planned Learning Activities and Teaching Methods	: Conferences, Applied Courses, Presentations, Seminars, Projects, Laboratory Practices (if necessary)
Recommended Optional Programme Components	: -

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to solve applications of algebra
- 2 - To be able to solve applications of Equations and inequalities
- 3 - To be able to solve applications of sequences
- 4 - To be able to solve applications of geometry
- 5 - To be able to solve applications of trigonometry
- 6 - To be able to solve applications of parabola

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evrap sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Weekly Course Contents

Theoretical : Algebra

Week 1 Practice :

Laboratory :

Theoretical : Polynomial operations and polynomials

Week 2 Practice :

Laboratory :

Theoretical : Ratio and proportion concepts and applications

Week 3 Practice :

Laboratory :

Theoretical : Equations and Inequalities

Week 4 Practice :

Laboratory :

Theoretical : Inequality

Week 5 Practice :

Laboratory :

Theoretical : total symbol multiplication symbol sequences

Week 6 Practice :

Laboratory :

Theoretical : total symbol multiplication symbol sequences

Week 7 Practice :

Laboratory :

Theoretical : midterm-exam

Week 8 Practice :

Laboratory :

Theoretical : arithmetic sequence geometric sequence infinite geometric sequence Basic geometry polygons ring and circles

Week 9 Practice :

Laboratory :

Theoretical : geometric objects coordinate systems Conics

Week 10 Practice :

Laboratory :

Theoretical : basic trigonometry

Week 11 Practice :

Laboratory :

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Practice :

Laboratory :

Theoretical : The basic operations of Functions Types of functions

Week 13 Practice :

Laboratory :

Theoretical : Parabola and the graph

Week 14 Practice :

Laboratory :

Theoretical : overview

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	1,00
Final	No	1	1,00
Individual study after lecture	Yes	7	133,00
Total Hours			135,00
ECTS			5,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	3	4	4	1	1	1	1	4	3	2	0
2	1	0	1	0	0	1	0	0	1	0	0
3	0	0	1	0	0	1	0	2	0	2	0
4	2	0	0	1	0	0	0	1	0	0	0
5	0	0	0	0	1	0	0	0	0	2	0
6	1	0	1	0	0	2	0	0	1	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Technical Drawing

General Description

Course Name : Technical Drawing

Course Code : EKT 1105

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 3

Laboratory Credits : 0

Practice Credits : 1

ECTS : 6

Name of Lecturer : Instructor Gazi BÜYÜKTAŞ

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** : The course aims to teach the designers to design fabrication components properly. With parallel to the developing technology nowadays, the course aims to solve the arising problems.(technical- manufacturing problems) with improving technical drawing knowledge.

Course Contents : To be able to draw machine parts by hand and picture tools, handicraft improvement of students, to be able to make geometric drawings, understand basic drawing principles related to machine drawing, create the perspective of an object from its views and views from its perspective, to interpret from a drawing.

**Recommended or
Required Reading** : Technical Drawing I - II, Kemal Türkdemir, Bilal OFSET, Denizli, 2001.

**Planned Learning
Activities and
Teaching Methods** : Lectures, Practical Courses, Presentation, Seminar, Project, Laboratory Applications (if necessary)

**Recommended
Optional Programme
Components** :

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to read technical drawing
- 2 - To be able to take section
- 3 - To be able to make measurement and give tolerance
- 4 - To be able to make standard mechanical parts drawing

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evrak sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Weekly Course Contents

Theoretical : Description of the methodology of the lecture, the importance of technical drawing, usage of sketch line, standard text and line examples

Week 1 Practice :
Laboratory :

Theoretical : Geometric drawings. Geometric drawings with using ruler. Drawing internal and external tangents between two circles.

Week 2 Practice :
Laboratory :

Theoretical : Perspective views

Week 3 Practice :
Laboratory :

Theoretical : Perspective views

Week 4 Practice :
Laboratory :

Theoretical : Dimensions, symbols and tolerance

Week 5 Practice :
Laboratory :

Theoretical : Section view, half and full view samples Developments, intersection models, sample application

Week 6 Practice :
Laboratory :

Theoretical : Section view, half and full view samples Developments, intersection models, sample application

Week 7 Practice :
Laboratory :

Theoretical : Midterm-exam

Week 8 Practice :
Laboratory :

Theoretical : Drawing of standard machine parts (Bolt, wedge, pin and perno)

Week 9 Practice :
Laboratory :

Theoretical : Assembly application I

Week 10 Practice :
Laboratory :

Theoretical : Assembly application II

Week 11 Practice :
Laboratory :

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
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	Theoretical : Combination of ball bearings, roller bearings, anti friction bearings, cylindrical bearings
Week 12	Practice :
	Laboratory :
	Theoretical : Disassemble applications
Week 13	Practice :
	Laboratory :
	Theoretical : Application of belt, pulley, gearwheel
Week 14	Practice :
	Laboratory :
	Theoretical : overview
Week 15	Practice :
	Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	2,00
Final	No	1	2,00
Attending lectures	Yes	14	56,00
Application / Practice	Yes	14	56,00
Individual study before lecture	Yes	14	28,00
Individual study after lecture	Yes	14	28,00
Total Hours			172,00
ECTS			6,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	0	2	0	0	0	0	2	1	0	0	0
2	1	0	0	0	0	0	3	0	0	0	0
3	0	3	0	0	0	0	1	0	0	0	0
4	3	4	0	0	0	0	3	0	0	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding Manufacturing Processes

General Description

Course Name : Manufacturing Processes

Course Code : EKT 1107

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 3

Laboratory Credits : 0

Practice Credits : 1

ECTS : 6

Name of Lecturer : Instructor Gazi BÜYÜKTAŞ

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** : Manufacturing procedures are helpful to understand the theory and practice of adequate infrastructure and provide the viewing angle of

Course Contents : Factors for metal cutting, turning, lathes, turning tools, milling, milling machine tools, milling tools, stalls track fastening systems, drilling, drills, drilling machines, planing, Dragline machines, Planing Process.

**Recommended or
Required Reading** : Lecture Notes in Mechanical Engineering in Manufacturing Applications

**Planned Learning
Activities and
Teaching Methods**

**Recommended
Optional Programme
Components**

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to understand general manufacturing techniques
- 2 - To be able to increase the ability of critising the system and its improvement
- 3 - To be able to choose the appropriate methods for manufacturing by understanding them
- 4 - Learning G codes basically

Weekly Course Contents

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
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Theoretical : Design and manufacturing input

Week 1 Practice :

Laboratory :

Theoretical : Transaction management in the factory

Week 2 Practice :

Laboratory :

Theoretical : Turning machine tools

Week 3 Practice :

Laboratory :

Theoretical : Turning the process

Week 4 Practice :

Laboratory :

Theoretical : Milling machine tools

Week 5 Practice :

Laboratory :

Theoretical : milling process Drilling with a drill

Week 6 Practice :

Laboratory :

Theoretical : milling process Drilling with a drill

Week 7 Practice :

Laboratory :

Theoretical : Midterm-exam

Week 8 Practice :

Laboratory :

Theoretical : Planing, Vargelleme, Grinding-I Planing Vargelleme, Grinding-II

Week 9 Practice :

Laboratory :

Theoretical : broaching

Week 10 Practice :

Laboratory :

Theoretical : Honing

Week 11 Practice :

Laboratory :

Theoretical : process modeling

Week 12 Practice :

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Theoretical : Introduction to CNC machine tools

Week 13 Practice :
Laboratory :

Theoretical : G-code CNC machine tools and software

Week 14 Practice :
Laboratory :

Theoretical : Overview

Week 15 Practice :
Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	1,00
Final	No	1	1,00
Individual study after lecture	Yes	5	10,00
Attending lectures	Yes	14	42,00
Individual study before lecture	Yes	5	10,00
Workshop	Yes	10	80,00
Preparation for midterm	Yes	1	4,00
Preparation for final	Yes	1	4,00
Application / Practice	Yes	4	16,00
Total Hours			168,00
ECTS			6,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	2	1	3	0	0	0	1	0	0	0	0
2	2	0	0	1	0	0	1	0	0	0	0
3	0	0	0	1	0	0	0	0	0	0	0
4	0	0	0	3	0	0	5	1	0	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding Measurement and Control

General Description

Course Name	: Measurement and Control
Course Code	: EKT 1109
Qualification Level	: Short Cycle
Qualification Degree	: PreBachelor Degree
Course Language	: Turkish
Theoretical Credits	: 1
Laboratory Credits	: 0
Practice Credits	: 1
ECTS	: 3
Name of Lecturer	: Instructor Gazi BÜYÜKTAŞ
Type of Course Unit	: Compulsory
Mode of Delivery	: Face-To-Face
Prerequisite and Co-requisites	: N/A
Objectives of the Course	: 1. To define measurement and control devices using in advanced measurement and control methods. 2. To be able to make control processes by advanced measurement and control methods.
Course Contents	: Comparators Measurement of angle and angled divisions To determine shape and positions Surface control with gauges and optical glasses Matching and gauging principles Surface Perfection Test of machining tools Measurement of screw steps Measurement of gears.
Recommended or Required Reading	: Caliper, Micrometer, Comparator, Set of Gauge Çelik S., "Measurement and Control" Ministry of National Education Publications, İstanbul, Türkiye.
Planned Learning Activities and Teaching Methods	: Lectures, Practical Courses, Presentation, Seminar, Project, Laboratory Applications (if necessary)
Recommended Optional Programme Components	

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to comprehend comparative measurement techniques of machine parts.
- 2 - To be able to determine the tolerances of the shape and position of machine parts according to the specific reference.
- 3 - To be able to decide on appropriate tolerances and gauges.
- 4 - To be able to determine whether the machined surfaces are within the specified geometric irregularity limits.

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evrap sorgulaması <https://turkey.gov.tr/epos/40490/EP0369742288307578> adresinden yapılabilir.



6 - To be able to measure the size and profile of the teeth.

Weekly Course Contents

Theoretical : Various Calipers sensibilities computation and measurement techniques.

Week 1 Practice : Comparative measurements with various calipers.

Laboratory :

Theoretical : Measuring techniques of various micrometer .

Week 2 Practice : Comparative measurements with the thickness and depth micrometers.

Laboratory :

Theoretical : Working principles of mechanical angle measurement tools and systems.

Week 3 Practice : Usage of workshop-laboratory environment.

Laboratory :

Theoretical : Working principles of optical angle measurement tools and angle measuring.

Week 4 Practice : Using an optical projector.

Laboratory :

Theoretical : Controlling of surface roughness of finished surfaces.

Week 5 Practice : Measuring of surface roughness.

Laboratory :

Theoretical : Measuring of screw uptooth diameter wit micrometers. Measuring dimensions of gear for movement and force transportation with minimum friction and noise.

Week 6 Practice :

Laboratory :

Theoretical : Measuring of screw uptooth diameter wit micrometers. Measuring dimensions of gear for movement and force transportation with minimum friction and noise.

Week 7 Practice :

Laboratory :

Theoretical : Midterm-exam

Week 8 Practice :

Laboratory :

Theoretical : Introduction to thickness and limit gauges,gauge tolerances. Inroduction to light wave lengths and interference event.

Week 9 Practice :

Laboratory :

Theoretical : Required measurements to determine of shape and position. Calculation of total (cumulative) shape and position defaults by statistical methods.

Week 10 Practice :

Laboratory :



Theoretical : Limits and exercise systems. Manufacturing principles of limit gauges.

Week 11 Practice :

Laboratory :

Theoretical : Usage of tolerance rulers.

Week 12 Practice :

Laboratory :

Theoretical : Relation between tolerance degrees and manufacturing methods of machine parts.

Week 13 Practice :

Laboratory :

Theoretical : Right settings of machine tools for manufacturing of good quality parts.

Week 14 Practice :

Laboratory :

Theoretical : Overview

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	1,00
Final	No	1	1,00
Application / Practice	Yes	14	70,00
Laboratory	Yes	5	15,00
Workshop	Yes	3	9,00
Total Hours			96,00
ECTS			3,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	2	0	0	0	0	2	0	0	0	1	0
2	0	0	0	3	3	0	0	0	0	0	0
3	0	0	2	3	0	0	0	0	0	0	0
4	2	1	0	2	2	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0
6	1	2	0	2	0	0	0	1	0	0	0

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MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Computer Aided Drawing 1

General Description

Course Name : Computer Aided Drawing 1

Course Code : EKT 1111

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 1

ECTS : 4

Name of Lecturer : Instructor Gazi BÜYÜKTAŞ

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

Prerequisite and Co-requisites : N/A

Objectives of the Course : To be able to transfer and assemble the three dimensional parts together with the required tolerance values to the technical drawing environment.

Course Contents : Using screen editing and drawing help commands, selecting CAD software run options, doing screen and drawing settings and turning off CAD software, drawing by using basic drawing commands and using coordinate systems, doing technical drawings by using drawing commands and adding text to drawings, being able to use edit commands, changing the properties of drawing elements, copying drawing elements, doing measurement settings, changing measurements, adding surface marking, and adding tolerance, being able to do (two-dimensional) data transfer between CAD softwares.

Recommended or Required Reading : Solidworks, Haluk Tatar, Pusula Publishing, Istanbul, 2013.

Planned Learning Activities and Teaching Methods : Courses, labs and application projects.

Recommended Optional Programme Components :

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to make three-dimensional drawing on the computer
- 2 - To be able to transfer drawing to technical drawing
- 3 - To be able to make assembly

Bu belge, güvenli elektronik hizmete inceleme ve tolerance to produce drawing
Evrak sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Weekly Course Contents

Theoretical : Recognizing Autocad 2007 and to prepare working environment to draw

Week 1 Practice : Application of the lecture content

Laboratory :

Theoretical : Line command and dimensioning

Week 2 Practice : Application of the lecture content

Laboratory :

Theoretical : Direction and angle commands

Week 3 Practice : Application of the lecture content

Laboratory :

Theoretical : Circle, delete, copy, move, mirror, offset, rotate, crop, fillet commands

Week 4 Practice : Application of the lecture content

Laboratory :

Theoretical : Formatting and layers

Week 5 Practice : Application of the lecture content

Laboratory :

Theoretical : Arc and spline commands

Week 6 Practice : Application of the lecture content

Laboratory :

Theoretical : Hatch, scale, extension and chamfering

Week 7 Practice : Application of the lecture content

Laboratory :

Theoretical : Midterm exam

Week 8 Practice : Midterm exam

Laboratory :

Theoretical : Drawing applications

Week 9 Practice : Drawing applications

Laboratory :

Theoretical : Drawing applications

Week 10 Practice : Drawing applications

Laboratory :

Theoretical : Drawing applications

Week 11 Practice : Drawing applications

Laboratory :

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Theoretical : Drawing applications

Week 12 Practice : Drawing applications

Laboratory :

Theoretical : Drawing applications

Week 13 Practice : Drawing applications

Laboratory :

Theoretical : Drawing applications

Week 14 Practice : Drawing applications

Laboratory :

Theoretical : overview

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	1,00
Final	No	1	1,00
Application / Practice	Yes	14	28,00
Attending lectures	Yes	14	42,00
Individual study before lecture	Yes	14	28,00
Individual study after lecture	Yes	14	28,00
Preparation for midterm	Yes	1	3,00
Preparation for final	Yes	1	4,00
Total Hours			135,00
ECTS			5,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	0	1	0	0	0	0	3	0	0	0	0
2	0	3	1	0	0	0	3	0	0	0	0
3	1	2	0	0	0	0	1	0	1	0	0
4	1	3	0	3	0	0	2	0	0	1	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding Professional Ethics

General Description

Course Name : Professional Ethics

Course Code : EKT 1113

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 1

Laboratory Credits : 0

Practice Credits : 0

ECTS : 1

Name of Lecturer : Instructor Gazi BÜYÜKTAŞ

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** : Gain skills to the students, working in accordance with ethical rules in business life

Course Contents : In this course students will learn ethical concept, ethical definition, moral development process, ethical rules, ethical systems, ethical relationship with society, ethical questioning, social corruption, professional ethics, ethics in business life, professional corruption.

**Recommended or
Required Reading**

**Planned Learning
Activities and
Teaching Methods**

**Recommended
Optional Programme
Components**

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to have the knowledge and skills to provide suitable environment for work ethics at the workplace.
- 2 - To be able to develop positive ideas about the concept of ethics.
- 3 - To be able to understand the principles of professional ethics correctly.
- 4 - To be able to apply the business ethics required by the profession in the workplace environment.



Weekly Course Contents

Theoretical : Definition of ethics

Week 1 Practice :

Laboratory :

Theoretical : Moral Development process

Week 2 Practice :

Laboratory :

Theoretical : Ethical rules

Week 3 Practice :

Laboratory :

Theoretical : Ethical systems: Intended result Etic Rule of ethics

Week 4 Practice :

Laboratory :

Theoretical : Ethical systems: Social contract ethics Personal Ethics Social life ethic

Week 5 Practice :

Laboratory :

Theoretical : Relationship between ethic and society Consequences of acting in accordance with Ethical Values

Week 6 Practice :

Laboratory :

Theoretical : Ethical questioning Social corruption and varieties

Week 7 Practice :

Laboratory :

Theoretical : Mid-term exam

Week 8 Practice :

Laboratory :

Theoretical : Ethical questioning Social corruption and varieties

Week 9 Practice :

Laboratory :

Theoretical : The concept of professional ethics

Week 10 Practice :

Laboratory :

Theoretical : Professional Ethics Principles: Accuracy legality Reliability Commitment to the Job

Week 11 Practice :

Laboratory :

Bu belge, güvenli elektronik İmza ile imzalanmıştır.

Evrap sorgulanabilir: <https://turktelekomethics.com/ethics/business/1701&lang=2>



Practice :

Laboratory :

Theoretical : Professional Corruption

Week 13 Practice :

Laboratory :

Theoretical : Consequences of appropriate behaviors in Work Ethics

Week 14 Practice :

Laboratory :

Theoretical : Overview

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	1,00
Assignment	Yes	1	1,00
Final	No	1	1,00
Individual study after lecture	Yes	10	30,00
Total Hours			33,00
ECTS			1,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	0	2	2	0	0	0	0	0	0	3	0
2	2	0	0	2	0	0	0	0	0	0	0
3	0	2	1	0	1	0	1	1	0	1	0
4	2	0	0	0	0	2	0	0	2	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Information Technology

General Description

Course Name : Information Technology

Course Code : EKT 1201

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 0

ECTS : 3

Name of Lecturer : Instructor Gazi BÜYÜKTAŞ

Type of Course Unit : Optional

Mode of Delivery : Face-To-Face

Prerequisite and Co-requisites : N/A

Objectives of the Course : This course is concerned with the development of competencies kazandırılmasını amaçlamaktır itself using computational facilities.

Course Contents : Internet access and Internet browser, e-mail management, forums, graphics, presentation preparation, promotional materials, preparation, operation table, formulas and functions, web-based learning, personal web site development

Recommended or Required Reading : Computer 2 Lecturer İsmail Yellow-Omer Bagci, Internet Programming 1-Turgut Yasar Abu Bakr Özseven, Computer and Internet use Cebi Honey Hasan

Planned Learning Activities and Teaching Methods : The narrative techniques of teaching methods, showing Motivations, group work, practical work, research, and individual teaching methods and techniques can be applied

Recommended Optional Programme Components : computer lab

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to know basic computer and internet information
- 2 - To be able to work in Excell
- 3 - To be able to prepare a presentation with Powerpoint
- 4 - To be able to work in Word

Weekly Course Contents

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Theoretical : Basic computer knowledge

Week 1 Practice :

Laboratory :

Theoretical : Information about internet and internet browsers

Week 2 Practice :

Laboratory :

Theoretical : Office programs, Word Interface, Text Operations

Week 3 Practice :

Laboratory :

Theoretical : Word Settings in Word

Week 4 Practice :

Laboratory :

Theoretical : Paragraph Settings, Page View, Tables, Drawings

Week 5 Practice :

Laboratory :

Theoretical : 3D settings, operations on pictures

Week 6 Practice :

Laboratory :

Theoretical : File operations, general applications

Week 7 Practice :

Laboratory :

Theoretical : Midterm-exam

Week 8 Practice :

Laboratory :

Theoretical : Introduction to Excel

Week 9 Practice :

Laboratory :

Theoretical : Create formula

Week 10 Practice :

Laboratory :

Theoretical : Formula Applications

Week 11 Practice :

Laboratory :

Theoretical : Excel Cells, Data

Week 12 Practice :

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Theoretical : Formatting in Excel, Functions

Week 13 Practice :
Laboratory :

Theoretical : Power Point

Week 14 Practice :
Laboratory :

Theoretical : Power Point presentation

Week 15 Practice :
Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	1,00
Final	No	1	1,00
Application / Practice	Yes	8	80,00
Research presentation	Yes	1	10,00
Total Hours			92,00
ECTS			3,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	2	2	1	2	1	0	1	3	0	1	0
2	1	0	0	2	0	3	0	1	0	2	0
3	2	1	0	3	0	2	1	2	0	1	0
4	0	1	0	0	2	0	3	0	2	1	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Advanced Manufacturing Technology 1

General Description

Course Name : Advanced Manufacturing Technology 1

Course Code : EKT 1203

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 0

ECTS : 3

Name of Lecturer : Instructor Gazi BÜYÜKTAŞ

Type of Course Unit : Optional

Mode of Delivery : Face-To-Face

Prerequisite and Co-requisites : N/A

Objectives of the Course : The aim of this course is; To be able to comprehend the history and classification of non-traditional machining processes, and differentiate them from the classical machining methods, be familiar with the principles of operations, machining parameters, abilities and applications of the processes. To be able to understand the meaning and using of new technologies.

Course Contents : History and classification of nontraditional machining processes, Comparing with the classical machining methods, Ultrasonic Machining, Abrasive Jet Machining, Abrasive Flow Machining, Chemical Machining, Electrochemical Machining, Electric Discharge Machining, Electric Discharge Wire Cutting, Laser Beam Machining, Plasma Beam (Arc) Machining, Electron Beam Machining, Ion Beam Machining Methods. Electro-erosion processing with basic features, advantages and disadvantages comprehend. Electrodissolve drilling, cutting and grinding operations understand the basic properties of varieties. Chemical Etching (ECM) Machining Method. Chemical Etching method for non-traditional production methods used in industry to define the basic properties. Laser Machining Method. Used in the manufacturing industry to define the basic features and types of

Recommended or Required Reading : Erden A. "Non-Traditional Machining Processes", Handbook of Mechanical Engineering, 2nd Edition, Vol. 2 (Design and Production), Section 15, 53p., The Turkish Chamber of Mechanical Engineers, Publ. No: 170, Ankara, 1997.

Planned Learning Activities and Teaching Methods : Lecture, question and answer, video and demonstrations.

Recommended Optional Programme Components : Information will be measured by written exams consisting of short answer and structured questions

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences:

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- 1 - To be able to comprehend the differences between traditional and non-traditional manufacturing methods
- 2 - To be able to understand the limitations of machining, and chipless production
- 3 - To be able to comprehend the meaning and using of new technologies
- 4 - To be able to comprehend the manufacturing of non-contact machining
- 5 - To be able to make the appropriate selection of manufacturing technology
- 6 - To be able to understand and use the terminology about Ultrasonic, chemical, electrochemical, electro-erosion, laser beam, electron beam, abrasive jet, water jet plasma treatments

Weekly Course Contents

Theoretical : Non-Traditional Manufacturing Methods

Week 1

Practice :

Laboratory :

Theoretical : Ultrasonic Machining

Week 2

Practice : Examination of the subject with written and visual documents

Laboratory :

Theoretical : Abrasive Jet Machining, Abrasive Flow Machining

Week 3

Practice : Examination of the subject with written and visual documents

Laboratory :

Theoretical : Water jet Machining, Abrasive Water Jet Machining

Week 4

Practice : Examination of the subject with written and visual documents

Laboratory :

Theoretical : Chemical Machining

Week 5

Practice : Examination of the subject with written and visual documents

Laboratory :

Theoretical : Electrochemical Machining

Week 6

Practice : Examination of the subject with written and visual documents

Laboratory :

Theoretical : Electric Discharge Machining (EDM)

Week 7

Practice : Practise in the company

Laboratory :

Theoretical : Electric Discharge Machining (EDM)

Week 8

Practice : Practise in the company

Laboratory :

Theoretical : Midterm

Week 9

Practice :

Laboratory :



Theoretical : Electric Discharge Wire Cutting (WEDM)

Week 10 Practice : Practise in the company

Laboratory :

Theoretical : Electric Discharge Wire Cutting (WEDM)

Week 11 Practice : Practise in the company

Laboratory :

Theoretical : Laser Beam Machining

Week 12 Practice : Practise in the company

Laboratory :

Theoretical : Plasma Beam (Arc) Machining

Week 13 Practice : Examination of the subject with written and visual documents

Laboratory :

Theoretical : Electron Beam Machining Ion Beam Machining

Week 14 Practice : Examination of the subject with written and visual documents

Laboratory :

Theoretical : Electron Beam Machining Ion Beam Machining

Week 15 Practice : Examination of the subject with written and visual documents

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	2,00
Final	No	1	2,00
Attending lectures	Yes	15	30,00
Preparation for midterm	Yes	1	8,00
Preparation for final	Yes	1	15,00
Individual study before lecture	Yes	15	15,00
Individual study after lecture	Yes	15	15,00
Total Hours			87,00
ECTS			3,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	2	2	0	2	2	0	1	1	0	0	0
2	1	2	0	0	1	2	1	0	0	0	0

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4	2	1	0	2	0	2	0	0	0	0	0
5	1	2	0	0	0	0	1	1	0	0	0
6	1	2	0	0	1	2	0	0	0	0	0

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MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Quality Assurance And Standards

General Description

Course Name : Quality Assurance And Standards

Course Code : EKT 1205

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 0

ECTS : 3

Name of Lecturer : Instructor Gazi BÜYÜKTAŞ

Type of Course Unit : Optional

Mode of Delivery : Face-To-Face

Prerequisite and Co-requisites : N/A

Objectives of the Course : The importance of standards and quality improvement efforts for businesses and provide knowledge of professional standards

Course Contents : Standards and standardization, quality, total quality management, professional standards, CE marking

Recommended or Required Reading : Mehmet Emin MERTER, Total Quality Management Atlas Publishing, Ankara 2006 - Muhsin HALİS, Total Quality Management from Paradigm to Practice and ISO 9000 Quality Assurance Systems, Beta Basım Publisher, İstanbul 2000

Planned Learning Activities and Teaching Methods : Conferences, Applied Courses, Presentations, Seminars, Projects - Face to Face

Recommended Optional Programme Components :

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to understand the importance and benefits of standard and standardization
- 2 - To be able to understand the importance of professional standards
- 3 - To be able to understand the consumer perceptions of quality
- 4 - To be able to understand the historical development of quality
- 5 - To be able to understand the relationship between quality and cost
- 6 - To be able to understand the CE marking

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Weekly Course Contents

Theoretical : Standard and standardization concepts, the role of TSE

Week 1 Practice :

Laboratory :

Theoretical : Benefits of Standardization

Week 2 Practice :

Laboratory :

Theoretical : Basic concepts of quality, quality of goods and services, measuring quality

Week 3 Practice :

Laboratory :

Theoretical : Consumer perception of quality

Week 4 Practice :

Laboratory :

Theoretical : Historical development of quality: Inspection and Quality Control

Week 5 Practice :

Laboratory :

Theoretical : Historical development of quality: Quality assurance and total quality

Week 6 Practice :

Laboratory :

Theoretical : Historical development of quality: Quality assurance and total quality

Week 7 Practice :

Laboratory :

Theoretical : midterm exam

Week 8 Practice :

Laboratory :

Theoretical : Quality cost relationship

Week 9 Practice :

Laboratory :

Theoretical : Internal and External Customer, Customer Satisfaction

Week 10 Practice :

Laboratory :

Theoretical : Total quality management tools and goals

Week 11 Practice :

Laboratory :



Practice :

Laboratory :

Theoretical : Professional standards

Week 13 Practice :

Laboratory :

Theoretical : The CE mark

Week 14 Practice :

Laboratory :

Theoretical :

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	10,00
Final	No	1	10,00
Assignment	Yes	1	10,00
Individual study before lecture	Yes	14	70,00
Total Hours			100,00
ECTS			3,00

Program and Learning Outcomes Relations

1	2	3	4	5	6	7	8	9	10	11
1	3	0	0	3	0	4	0	0	4	0
2	4	0	0	3	0	3	2	0	0	3
3	3	0	0	2	1	2	0	0	2	0
4	2	0	0	1	0	2	2	0	0	2
5	3	0	0	4	0	3	0	0	3	0
6	4	0	0	3	0	3	2	0	3	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Computer Aidet Desing 2

General Description

Course Name : Computer Aidet Desing 2

Course Code : EKT 1102

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 1

ECTS : 5

Name of Lecturer : Assoc. Prof. Dr. Abidin ŞAHİNOĞLU

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** :

Course Contents :

**Recommended or
Required Reading**

**Planned Learning
Activities and
Teaching Methods**

**Recommended
Optional Programme
Components**

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

1 -

2 -

3 -

4 -

Weekly Course Contents

Week 0 Theoretical :
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Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

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Week 0 Practice :

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Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :



Theoretical :

Week 0

Practice :

Laboratory :

Theoretical :

Week 0

Practice :

Laboratory :

Theoretical :

Week 0

Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	10,00
Final	No	1	10,00
Application / Practice	Yes	10	100,00
Preparation for midterm	Yes	1	9,00
Preparation for final	Yes	1	5,00
Total Hours			134,00
ECTS			4,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	5	5	4	5	0	1	5	5	0	0	1
2	5	5	5	4	0	1	5	5	0	0	1
3	5	5	4	5	0	1	5	5	0	0	1
4	5	5	5	4	0	1	5	5	0	0	1



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding Sheet Metal Dying Techniques

General Description

Course Name : Sheet Metal Dying Techniques

Course Code : EKT 1104

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 4

Laboratory Credits : 0

Practice Credits : 2

ECTS : 8

Name of Lecturer : Assoc. Prof. Dr. Abidin ŞAHİNOĞLU

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** :

Course Contents :

**Recommended or
Required Reading**

**Planned Learning
Activities and
Teaching Methods**

**Recommended
Optional Programme
Components**

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

1 -

2 -

3 -

4 -

5 -

Weekly Course Contents

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
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Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evrap sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	10,00
Final	No	1	10,00
Attending lectures	Yes	10	100,00
Application / Practice	Yes	12	120,00
Total Hours			240,00
ECTS			8,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	5	5	5	5	0	0	1	4	0	0	1
2	5	5	5	5	0	0	1	4	0	0	1
3	5	5	5	5	0	0	1	4	0	0	1
4	5	5	5	5	0	0	1	4	0	0	1
5	5	5	5	5	0	0	1	4	0	0	1



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding Machine Drawing

General Description

Course Name : Machine Drawing

Course Code : EKT 1106

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 1

ECTS : 4

Name of Lecturer : Assoc. Prof. Dr. Abidin ŞAHİNOĞLU

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** :

Course Contents :

**Recommended or
Required Reading**

**Planned Learning
Activities and
Teaching Methods**

**Recommended
Optional Programme
Components**

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

1 -

2 -

3 -

4 -

Weekly Course Contents

Week 0 Theoretical :
Bu belge, güvenli elektronik İmza ile imzalanmıştır.

Evrak sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

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Week 0

Practice :

Laboratory :

Theoretical :

Week 0

Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	10,00
Final	No	1	10,00
Application / Practice	Yes	10	100,00
Total Hours			120,00
ECTS			4,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	5	5	5	4	0	1	5	5	0	0	2
2	5	4	5	5	0	1	5	5	0	0	2
3	5	5	5	4	0	1	5	5	0	0	2
4	5	4	5	5	0	1	5	5	0	0	2



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding Material Technology

General Description

Course Name : Material Technology

Course Code : EKT 1108

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 0

ECTS : 3

Name of Lecturer : Assoc. Prof. Dr. Abidin ŞAHİNOĞLU

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** :

Course Contents :

**Recommended or
Required Reading**

**Planned Learning
Activities and
Teaching Methods**

**Recommended
Optional Programme
Components**

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

1 -

2 -

3 -

4 -

5 -

Weekly Course Contents

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evrap sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

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Theoretical :

Week 0 Practice :

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Week 0 Practice :

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Week 0 Practice :

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Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evrap sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	10,00
Final	No	1	10,00
Attending lectures	Yes	10	50,00
Application / Practice	Yes	10	20,00
Total Hours			90,00
ECTS			3,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	4	4	4	4	0	1	4	2	0	0	0
2	5	5	5	5	0	1	3	3	0	0	0
3	4	5	4	5	0	1	5	2	0	0	0
4	5	4	5	4	0	1	4	2	0	0	0
5	4	5	4	5	0	1	5	2	0	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Strength Of Materials

General Description

Course Name : Strength Of Materials

Course Code : EKT 1110

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 0

ECTS : 3

Name of Lecturer : Assoc. Prof. Dr. Abidin ŞAHİNOĞLU

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** :

Course Contents :

**Recommended or
Required Reading**

**Planned Learning
Activities and
Teaching Methods**

**Recommended
Optional Programme
Components**

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

1 -

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6 -

7 -



Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evrap sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.

Weekly Course Contents

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

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Laboratory :

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Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	10,00
Final	No	1	10,00
Assignment	Yes	10	50,00
Individual study before lecture	Yes	10	10,00
Preparation for midterm	Yes	1	10,00
Total Hours			90,00
ECTS			3,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	4	3	4	3	0	1	4	3	0	0	1
2	4	4	5	4	0	1	4	3	0	0	1
3	5	5	4	3	0	1	5	3	0	0	0
4	4	4	5	4	0	1	4	4	0	0	2
5	4	5	5	5	0	1	5	2	0	0	0
6	4	4	4	4	0	1	4	2	0	0	1
7	4	5	4	4	0	1	5	4	0	0	1



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Computer Aided Manufacture 1

General Description

Course Name : Computer Aided Manufacture 1

Course Code : EKT 1112

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 1

ECTS : 4

Name of Lecturer : Assoc. Prof. Dr. Abidin ŞAHİNOĞLU

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** :

Course Contents :

**Recommended or
Required Reading**

**Planned Learning
Activities and
Teaching Methods**

**Recommended
Optional Programme
Components**

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

1 -

2 -

3 -

4 -

Weekly Course Contents

Week 0 Theoretical :
Bu belge, güvenli elektronik İmza ile imzalanmıştır.

Evrak sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

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Week 0

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Week 0

Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	10,00
Final	No	1	10,00
Application / Practice	Yes	10	100,00
Total Hours			120,00
ECTS			4,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	4	5	5	5	0	3	4	5	0	0	0
2	4	5	5	5	0	3	4	5	0	0	0
3	4	5	5	5	0	3	5	5	0	0	0
4	3	5	5	5	0	3	4	5	0	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding Environmental Protection

General Description

Course Name : Environmental Protection

Course Code : EKT 1202

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 0

ECTS : 3

Name of Lecturer : Assoc. Prof. Dr. Abidin ŞAHİNOĞLU

Type of Course Unit : Optional

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** :

Course Contents :

**Recommended or
Required Reading**

**Planned Learning
Activities and
Teaching Methods**

**Recommended
Optional Programme
Components**

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

1 -

2 -

3 -

4 -

Weekly Course Contents

Week 0 Theoretical :
Bu belge, güvenli elektronik İmza ile imzalanmıştır.

Evrak sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

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Theoretical :

Week 0

Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	10,00
Final	No	1	10,00
Attending lectures	Yes	14	70,00
Total Hours			90,00
ECTS			3,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	1	1	0	0	1	0	5	0	5	3	4
2	1	1	1	0	1	0	4	0	4	4	5
3	1	1	1	0	1	0	5	0	4	4	4
4	1	1	1	0	1	0	4	0	5	3	5



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

First Aid

General Description

Course Name : First Aid

Course Code : EKT 1204

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 0

ECTS : 3

Name of Lecturer : Assoc. Prof. Dr. Abidin ŞAHİNOĞLU

Type of Course Unit : Optional

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** :

Course Contents :

**Recommended or
Required Reading**

**Planned Learning
Activities and
Teaching Methods**

**Recommended
Optional Programme
Components**

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

1 -

2 -

3 -

4 -

Weekly Course Contents

Week 0 Theoretical :

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evrap sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

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Week 0

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Theoretical :

Week 0

Practice :

Laboratory :

Theoretical :

Week 0

Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	10,00
Final	No	1	10,00
Application / Practice	Yes	14	70,00
Total Hours			90,00
ECTS			3,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	0	0	0	2	0	0	1	0	1	5	5
2	0	0	0	1	0	0	2	0	1	5	4
3	1	1	1	2	1	1	1	1	1	4	5
4	0	0	0	1	0	0	1	0	1	5	5



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding Entrepreneurship

General Description

Course Name : Entrepreneurship

Course Code : EKT 1206

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 0

ECTS : 3

Name of Lecturer : Assoc. Prof. Dr. Abidin ŞAHİNOĞLU

Type of Course Unit : Optional

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** :

Course Contents :

**Recommended or
Required Reading**

**Planned Learning
Activities and
Teaching Methods**

**Recommended
Optional Programme
Components**

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

1 -

2 -

3 -

4 -

5 -

Weekly Course Contents

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evrap sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

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Week 0 Practice :

Laboratory :

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evraç sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	10,00
Final	No	1	10,00
Project	Yes	1	70,00
Total Hours			90,00
ECTS			3,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	1	0	3	2	4	1	4	2	4	1	4
2	1	1	2	2	4	0	3	1	3	1	4
3	0	2	1	4	3	1	3	2	3	2	4
4	0	0	0	4	4	0	5	0	0	0	5
5	1	1	1	4	5	0	3	0	5	0	5



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding
Computer Aided Manufacture 2

General Description

Course Name : Computer Aided Manufacture 2

Course Code : EKT 2101

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 1

ECTS : 4

Name of Lecturer : Instructor Mustafa KIRMAN

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

Prerequisite and Co-requisites : N/A

Objectives of the Course : To gain the ability to create the toolpaths for CNC milling machines on 2D and 3D drawings by using the CAM programmes.

Course Contents : To define the block to be processed and the 2D 3D designs to the CAM programme, To define the coordinate system, To define the types of operations, cutters and cutting parameters. To generate the toolpath and To obtain the G-codes. To process the tool.

Recommended or Required Reading : UGN3 Tutorials

Planned Learning Activities and Teaching Methods

Recommended Optional Programme Components

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to use the 2D modul of CAD programme
- 2 - To be able to use the 3D modul of CAD programme
- 3 - To be able to create the tool way and simulate them.
- 4 - To be able select the Post Processor and generate G-code

Bu belge, güvenli elektronik formda oluşturulmuştur. **Weekly Course Contents**
Evrak sorgulaması <https://turkive.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Theoretical : UGNX interface, New, Open, Save, Exit

Week 1 Practice :

Laboratory :

Theoretical : Drawing commands and workpiece coordinate system

Week 2 Practice :

Laboratory :

Theoretical : MCS, Definition of part and block , milling operations

Week 3 Practice :

Laboratory :

Theoretical : Rough milling and definition of tools

Week 4 Practice :

Laboratory :

Theoretical : Definition of cutting parameters

Week 5 Practice :

Laboratory :

Theoretical : Toolpath generation and simulation

Week 6 Practice :

Laboratory :

Theoretical : Mid-term exam

Week 7 Practice :

Laboratory :

Theoretical : Rest machining

Week 8 Practice :

Laboratory :

Theoretical : Finish operations

Week 9 Practice :

Laboratory :

Theoretical : Finish operations

Week 10 Practice :

Laboratory :

Theoretical : 2,5 Axis milling

Week 11 Practice :

Laboratory :

Theoretical : Drilling

Week 12 Practice :

Bu belge, güvenli elektronik imza ile imzalanmıştır.
Evraç sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Theoretical : Text machining

Week 13 Practice :

Laboratory :

Theoretical : Postprocess and machining

Week 14 Practice :

Laboratory :

Theoretical : Final exam

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	1,00
Final	No	1	1,00
Assignment	Yes	1	10,00
Attending lectures	Yes	15	60,00
Preparation for midterm	Yes	1	10,00
Preparation for final	Yes	1	20,00
Total Hours			102,00
ECTS			3,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	3	4	0	0	0	0	0	2	0	3	0
2	3	3	0	0	0	0	4	0	0	0	0
3	0	0	0	0	0	0	0	0	0	2	0
4	0	2	0	0	0	0	4	0	0	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Injection Molding

General Description

Course Name : Injection Molding

Course Code : EKT 2103

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 4

Laboratory Credits : 0

Practice Credits : 2

ECTS : 8

Name of Lecturer : Instructor Mustafa KIRMAN

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** :

Course Contents :

**Recommended or
Required Reading**

**Planned Learning
Activities and
Teaching Methods**

**Recommended
Optional Programme
Components**

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

1 -

2 -

3 -

4 -

Weekly Course Contents

Week 0 Theoretical :

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evrap sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

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Week 0 Practice :

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Theoretical :

Week 0

Practice :

Laboratory :

Theoretical :

Week 0

Practice :

Laboratory :

Theoretical :

Week 0

Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Total Hours			0,00
ECTS			0,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	5	3	3	0	0	0	3	2	0	0	0
2	5	2	3	1	0	0	3	3	0	0	0
3	5	3	2	2	0	0	2	3	0	0	0
4	5	2	2	2	0	0	1	0	0	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

CNC Milling Technology

General Description

Course Name : CNC Milling Technology

Course Code : EKT 2105

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 1

ECTS : 4

Name of Lecturer : Instructor Mustafa KIRMAN

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

Prerequisite and Co-requisites : N/A

Objectives of the Course : This course is preparation for work with the conspiracy, CNC milling, the program aims at teaching the competencies to make writing and production.

Course Contents : In this course, students will learn the technical drawing rules CNC Machine's parts and features of the work piece to the picture drawn by the işleyebilecektir using the appropriate speed and feed.

Recommended or Required Reading : Manual Milling, CNC Milling programming commands, book, computer, computer program for use

Planned Learning Activities and Teaching Methods : Lectures, group work, practice, practice again

Recommended Optional Programme Components : In this course, students learn what they have learned using the machine industry, cnc milling programmer olabilir.Aynı even more time by making ilerletirse macro program can handle different parts.

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to identify zero points on parts.
- 2 - To be able to distinguish the properties of the elements used in reset.
- 3 - To be able to reset the tool according to the part to be machined.
- 4 - To be able to comprehend the elements and properties used in tool setting.
- 5 - To be able to adjust the depth of cut, the angle of operation and the giving of progress.
- 6 - To be able to calculate the roughness depth of the tool.

Bu belge, güvenli elektronik formda hazırlanmıştır.
To be able to identify zero points on parts.
Evrak sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



- 8 - To be able to use binding control devices.
- 9 - To be able to do workpiece zeroing methods.

Weekly Course Contents

	Theoretical : CNC Machine's features, components and operating principles
Week 1	Practice : CNC Machine's features, components and operating principles
	Laboratory : CNC Machine's features, components and operating principles
	Theoretical : Coordinate axes of the counter, the reference points Types of control panels, relationship between the cutter and workpiece material
Week 2	Practice : Coordinate axes of the counter, the reference points Types of control panels, relationship between the cutter and workpiece material
	Laboratory : Coordinate axes of the counter, the reference points Types of control panels, relationship between the cutter and workpiece material
	Theoretical : Cutting Types, properties and uses of
Week 3	Practice : Cutting Types, properties and uses of
	Laboratory : Cutting Types, properties and uses of
	Theoretical : Parts on the zero points Cutting depth, angle, and advances in treatment given
Week 4	Practice : Parts on the zero points Cutting depth, angle, and advances in treatment given
	Laboratory : Parts on the zero points Cutting depth, angle, and advances in treatment given
	Theoretical : CNC Milling Machine programming fundamentals
Week 5	Practice : CNC Milling Machine programming fundamentals
	Laboratory : CNC Milling Machine programming fundamentals
	Theoretical : Motion systems, CNC Milling Machine The definition and importance of simulation simulation programs running a program
Week 6	Practice : Motion systems, CNC Milling Machine The definition and importance of simulation simulation programs running a program
	Laboratory : Motion systems, CNC Milling Machine The definition and importance of simulation simulation programs running a program
	Theoretical : Motion systems, CNC Milling Machine The definition and importance of simulation simulation programs running a program
Week 7	Practice : The definition and importance of simulation simulation programs running a program
	Laboratory : The definition and importance of simulation simulation programs running a program
	Theoretical : Midterm-exam
Week 8	Practice :
	Laboratory :
	Theoretical : Programming using CNC milling cycles Circular pocket milling cycle
Week 9	Practice : Programming using CNC milling cycles Circular pocket milling cycle
	Laboratory : Programming using CNC milling cycles Circular pocket milling cycle

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evraç sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



	Theoretical : Programming using CNC milling cycles a) the drilling cycle b) The tapping cycle c) Hole expansion cycle
Week 10	Practice : Programming using CNC milling cycles a) the drilling cycle b) The tapping cycle c) Hole expansion cycle
	Laboratory : Programming using CNC milling cycles a) the drilling cycle b) The tapping cycle c) Hole expansion cycle
	Theoretical : Sub-programming technique Old programming structure
Week 11	Practice : Sub-programming technique Old programming structure
	Laboratory : Sub-programming technique Old programming structure
	Theoretical : Milling CNC programming using the sub-program
Week 12	Practice : Milling CNC programming using the sub-program
	Laboratory : Milling CNC programming using the sub-program
	Theoretical : CNC Milling Machine in the alarm options
Week 13	Practice : CNC Milling Machine in the alarm options
	Laboratory : CNC Milling Machine in the alarm options
	Theoretical : Measurement and control
Week 14	Practice : Measurement and control
	Laboratory : Measurement and control
	Theoretical : Overview
Week 15	Practice :
	Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	3,00
Final	No	1	3,00
Attending lectures	Yes	16	16,00
Application / Practice	Yes	16	16,00
Laboratory	Yes	10	40,00
Individual study before lecture	Yes	6	6,00
Individual study after lecture	Yes	6	6,00
Homework	Yes	8	8,00
Workshop	Yes	10	20,00
Others	Yes	8	8,00
Total Hours			126,00
ECTS			4,00



Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	3	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	5	3	0	2	0
3	0	2	4	2	0	2	0	0	0	0	0
4	0	0	0	0	0	0	5	0	0	0	0
5	2	0	0	0	2	0	5	0	0	0	0
6	0	2	4	2	0	2	3	3	0	0	0
7	2	3	4	0	0	0	4	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	4	0	0	2	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Hydroulic Pnoumatic

General Description

Course Name : Hydroulic Pnoumatic

Course Code : EKT 2107

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 1

ECTS : 4

Name of Lecturer : Instructor Mustafa KIRMAN

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** : Comprehend basic concepts of fluid mechanics, hydrostatics and hydrodynamics. Comprehend operational principles of hydraulic and pneumatic control systems, and set up these control circuits. Set up a hydraulic, electro-hydraulic and pneumatic, electro-pneumatic circuit due to the desired criteria. Maintenance and repair of machine tools to gain relevant qualifications.

Course Contents : Basic principles of hydraulics, Hydraulic elements (components) and circuits, Electro-hydraulics circuits, Basic principles of Pneumatic, Pneumatic elements (components) and circuits, Electro-pneumatic circuits

**Recommended or
Required Reading** : 1.Denktaş, M., Hydraulic and Pneumatic Systems, Undergraduate Publishing
2.Karacan I., Hydraulic and pneumatic, Simav 3. Small M., Hydraulic Pneumatic, Ministry of Education Publications., 4. Power Hydrology, Ministry of National Education Publications., 5. Improvement of hydraulic failure search ability, Ministry of National Education Publications., 6. Improvement of pneumatic failure search ability, Ministry of Education Publications.

**Planned Learning
Activities and
Teaching Methods** : Lectures, Practical Courses, Presentation, Project, Laboratory Applications

**Recommended
Optional Programme
Components** :

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to draw a hydraulic circuit diagram, to understand the basic elements
- 2 - To be able to explain the workings of Hydraulic work machines and vans, grinding, injection machines and so on from their drawn circuit diagrams

Bu belge, güvenli elektronik imza ile imzalanmıştır.

Evrak sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



- 3 - To be able to recognize electro-hydraulic elements and explain their operation with examples
- 4 - To be able to know possible defects in hydraulic systems and explain the solution methods of defect
- 5 - To be able to know the basic elements of pneumatic system and explain their working systems
- 6 - To be able to symbolize a pneumatic circuit diagram to show basic elements such as compressor, relief valves, control valves
- 7 - To be able to know the probable failures in pneumatic systems and explain the solution methods of failures
- 8 - To be able to recognize electro-pneumatic elements and explain their work with examples

Weekly Course Contents

Theoretical : Understanding the hydraulic circuit elements

Week 1 Practice :

Laboratory :

Theoretical :

Week 2 Practice :

Laboratory : Hydraulic circuit diagram to create

Theoretical :

Week 3 Practice :

Laboratory : Hydraulic and electro-hydraulic circuit diagram to create

Theoretical :

Week 4 Practice : Detecting failures in hydraulic systems

Laboratory :

Theoretical :

Week 5 Practice : Resolve hydraulic failures

Laboratory :

Theoretical : Understanding the pneumatic circuit elements Pneumatic circuit diagram to create

Week 6 Practice :

Laboratory :

Theoretical : Midterm-exam

Week 7 Practice :

Laboratory :

Theoretical : Understanding the pneumatic circuit elements Pneumatic circuit diagram to create

Week 8 Practice :

Laboratory :

Theoretical :

Week 9 Practice :

Bu belge, güvenli elektronik **İmza ile imzalanmıştır**.
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Theoretical :

Week 10 Practice : Detecting failures in pneumatic systems

Laboratory :

Theoretical :

Week 11 Practice : Resolve pneumatic failures

Laboratory :

Theoretical :

Week 12 Practice : Make periodic checks of systems

Laboratory :

Theoretical :

Week 13 Practice : Periodic maintenance of the systems do

Laboratory :

Theoretical :

Week 14 Practice : To repair a defective machine

Laboratory :

Theoretical : Overview

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	1,00
Final	No	1	1,00
Individual study before lecture	Yes	4	16,00
Individual study after lecture	Yes	8	64,00
Application / Practice	Yes	8	64,00
Total Hours			146,00
ECTS			5,00

Program and Learning Outcomes Relations

1	2	3	4	5	6	7	8	9	10	11
1	0	0	0	0	0	0	0	3	0	0
2	0	1	0	0	0	0	0	0	2	0
3	0	0	0	0	0	0	0	3	0	0

Bu belge, güvenli elektronik İmza ile imzalanmıştır. 04049&eD=BS4EDF7RL2&eS=807378 adresinden yapılabilir.
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5	0	0	0	0	0	0	0	0	0	3	0
6	0	3	0	0	0	0	0	0	2	0	0
7	0	2	0	0	0	0	0	0	4	3	0
8	0	0	0	0	0	0	0	0	0	0	0

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MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Research Methods and Techniques

General Description

Course Name : Research Methods and Techniques

Course Code : EKT 2109

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 0

ECTS : 3

Name of Lecturer : Instructor Mustafa KIRMAN

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

Prerequisite and Co-requisites : N/A

Objectives of the Course : It is aimed that a student who is about to graduate should have ability to make research about his/her profession in depth, to improve himself/herself about his/her study subject, to report and to make influential presentation his/her study in conformity with the determined rules.

Course Contents : To study, research, report and make oral presentation on a vocational subject in conformity with scientific study rules and ethics.

Recommended or Required Reading : 1) Seyidoglu, Halil, Scientific Research and Writing Handbook, Güzem Can Publications, 2003, Istanbul 2) Al, Hamza, Academic Writing Rules of Scientific Research Methods, Sakarya Bookstore, 2007, Sakarya 3) Türkbal, Aydin, Scientific Research Methods and Writing Techniques, Aktif Publishing House, 2003, Istanbul

Planned Learning Activities and Teaching Methods : Lectures, Practical Courses, Presentation, Seminar, Project, Laboratory Applications (if necessary)

Recommended Optional Programme Components :

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to improve the vocational interest and knowledge depth of students
- 2 - To be able to make independent study and gain capability for selflearning
- 3 - To be able to improve communication capability and gain capability of harmonic working in a team
- 4 - To be able to gain knowledge and skills about how reached resources can be used in working
- 5 - To be able to reach primary and secondary resources related to research topic

Bu belge, güvenli elektronik imza ile imzalanmıştır.
Evrap sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



- 6 - To be able to analyze a scientific subject and divide it into pieces by doing research.
- 7 - To be able to work on computer, software, internet and questionnaires (project, experiment) which may be necessary in a report or work
- 8 - To be able to gain the ability of writing a report effectively and in accordance with writing rules

Weekly Course Contents

Theoretical : Distribution of the study topics to the students

Week 1 Practice :
 Laboratory :

Theoretical : Introduction to research methods and planning of research

Week 2 Practice :
 Laboratory :

Theoretical : To reach primary and secondary resources in researches

Week 3 Practice :
 Laboratory :

Theoretical : To arrange the collected resources, text referring and types of referring

Week 4 Practice :
 Laboratory :

Theoretical : Development of the Project/ Designing a survey/sample surveys/sample projects

Week 5 Practice :
 Laboratory :

Theoretical : Designing index and chapters in study Preparing and showing of foreword, abstract, figures and graphics

Week 6 Practice :
 Laboratory :

Theoretical : Designing index and chapters in study Preparing and showing of foreword, abstract, figures and graphics

Week 7 Practice :
 Laboratory :

Theoretical : Midterm-exam

Week 8 Practice :
 Laboratory :

Theoretical : Designing the bibliography Checking the conformity to writing rules, and correction of mistakes

Week 9 Practice :
 Laboratory :

Week 10 Theoretical : Assessment of results obtained in the study

Practice :

Bu belge, güvenli elektronik **İmza** ile **tez**zeichnetür.
Evraç sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Laboratory :

Theoretical : Ethics in scientific studies

Week 11 Practice :

Laboratory :

Theoretical : Presentation techniques /preparation of presentation

Week 12 Practice :

Laboratory :

Theoretical : Collective presentation / workshop

Week 13 Practice :

Laboratory :

Theoretical : Collective presentation / workshop

Week 14 Practice :

Laboratory :

Theoretical : Overview

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	1,00
Final	No	1	1,00
Research presentation	Yes	1	1,00
Individual study before lecture	Yes	8	48,00
Total Hours			51,00
ECTS			2,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	2	0	2	2	0	0	2	0	0	0	0
2	0	2	0	0	2	3	0	0	0	0	0
3	0	0	0	2	0	0	0	2	0	0	0
4	2	0	2	0	0	0	0	0	0	0	0
5	0	2	0	0	2	0	0	0	0	3	0
6	0	0	0	2	0	2	2	2	0	0	0
7	3	0	0	0	0	0	0	0	0	0	0

Bu belge, güvenli elektronik İmza ile imzalanmıştır.

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MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Social Responsibility

General Description

Course Name	: Social Responsibility
Course Code	: EKT 2111
Qualification Level	: Short Cycle
Qualification Degree	: PreBachelor Degree
Course Language	: Turkish
Theoretical Credits	: 1
Laboratory Credits	: 0
Practice Credits	: 0
ECTS	: 1
Name of Lecturer	: Instructor Mustafa KIRMAN
Type of Course Unit	: Compulsory
Mode of Delivery	: Face-To-Face
Prerequisite and Co-requisites	: N/A
Objectives of the Course	: It is expected from students to 1. identify environmental problems like social, natural, cultural and so on. 2. to develop interdisciplinary cooperation for the solution of the problem, 3. Continuity without compromising the process objective, 4. to share their results with the public.
Course Contents	: In this course, students will learn about social responsibility concept, purpose and importance; The development of social responsibility in society; Civil society organizations and their places in social responsibility, social responsibility projects in the world and in Turkey.
Recommended or Required Reading	
Planned Learning Activities and Teaching Methods	: Lecture, class discussion and application.
Recommended Optional Programme Components	

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to identify problems that concern social life.
- 2 - To be able to produce solutions and projects to existing problems.
- 3 - To be able to make interdisciplinary studies.
- 4 - To be able to take responsibility in the social field.

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evrap sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Weekly Course Contents

Theoretical : Social Responsibility Concept, aim and importance

Week 1 Practice :

Laboratory :

Theoretical : History of Social Responsibility

Week 2 Practice :

Laboratory :

Theoretical : Development of Social Responsibility

Week 3 Practice :

Laboratory :

Theoretical : Relationship between community and social responsibility

Week 4 Practice :

Laboratory :

Theoretical : Relationship between individual and social responsibility

Week 5 Practice :

Laboratory :

Theoretical : Concept of social responsibility on the basis of occupations Definition, mission and purpose of civil society organizations

Week 6 Practice :

Laboratory :

Theoretical : Concept of social responsibility on the basis of occupations Definition, mission and purpose of civil society organizations

Week 7 Practice :

Laboratory :

Theoretical : Midterm-exam

Week 8 Practice :

Laboratory :

Theoretical : Civil society organizations' place in social responsibility projects midterm

Week 9 Practice :

Laboratory :

Theoretical : Social responsibility projects in the world and Turkey

Week 10 Practice :

Laboratory :

Theoretical : Phantasmal phases of social responsibility projects

Week 11 Practice :

Laboratory :

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
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Theoretical : Identification of student projects

Week 12 Practice :

Laboratory :

Theoretical :

Week 13 Practice : Project presentations

Laboratory :

Theoretical :

Week 14 Practice : Project presentations

Laboratory :

Theoretical : Overview

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Assignment	Yes	4	20,00
Quizzes	Yes	1	5,00
Project	Yes	1	4,00
Final	No	1	1,00
Midterms	Yes	1	1,00
Total Hours			31,00
ECTS			1,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	1	2	0	0	2	0	0	2	2	0	0
2	2	1	0	1	0	1	0	1	0	0	0
3	1	0	1	0	2	0	0	0	1	0	0
4	0	0	0	0	0	0	0	0	0	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Occupational Health and Safet

General Description

Course Name : Occupational Health and Safet

Course Code : EKT 2113

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 0

ECTS : 3

Name of Lecturer : Instructor Mustafa KIRMAN

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

Prerequisite and Co-requisites : N/A

Objectives of the Course : With this course the students, aimed to gain the competencies required to ensure safety

Course Contents : It is aimed to inform the learners about the standards of occupational safety and health education that will be necessary for the student's business life.

Recommended or Required Reading : Occupational Health and Safety Dr. Alp Esin, Kardelen Offset, Ankara, 2006.

Planned Learning Activities and Teaching Methods : Conferences, presentations, projects, practical lessons, laboruvar (if necessary)

Recommended Optional Programme Components :

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to take first aid measures
- 2 - To be able to provide working safety
- 3 - To be able to take precautions in accordance with work safety legislation
- 4 - To be able to have knowledge about occupational accidents and occupational diseases

Weekly Course Contents

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evrak sorgulaması <https://turkiye.gov.tr/ebd?ER=4049&eID=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Practice :

Laboratory :

Theoretical : First Aid training

Week 2 Practice :

Laboratory :

Theoretical : First Aid training

Week 3 Practice :

Laboratory :

Theoretical : First Aid training

Week 4 Practice :

Laboratory :

Theoretical : Provide personal safety

Week 5 Practice :

Laboratory :

Theoretical : Provide personal safety

Week 6 Practice :

Laboratory :

Theoretical : Provide personal safety

Week 7 Practice :

Laboratory :

Theoretical : Midterm-exam

Week 8 Practice :

Laboratory :

Theoretical : Ensuring the safety of employees

Week 9 Practice :

Laboratory :

Theoretical : The business environment is to provide security

Week 10 Practice :

Laboratory :

Theoretical : The business environment is to provide security

Week 11 Practice :

Laboratory :

Theoretical : Safety at Work legislation

Week 12 Practice :

Laboratory :

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evrap sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Theoretical : Safety at Work legislation

Week 13 Practice :

Laboratory :

Theoretical : Safety at Work legislation

Week 14 Practice :

Laboratory :

Theoretical : Overview

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	1,00
Final	No	1	1,00
Individual study after lecture	Yes	10	100,00
Total Hours			102,00
ECTS			3,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	0	0	0	0	0	3	0	0	0	0	0
2	2	0	0	2	2	0	2	0	2	0	0
3	0	0	2	0	0	3	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	2	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Forging Molding

General Description

Course Name	: Forging Molding
Course Code	: EKT 2201
Qualification Level	: Short Cycle
Qualification Degree	: PreBachelor Degree
Course Language	: Turkish
Theoretical Credits	: 2
Laboratory Credits	: 0
Practice Credits	: 0
ECTS	: 3
Name of Lecturer	: Instructor Mustafa KIRMAN
Type of Course Unit	: Optional
Mode of Delivery	: Face-To-Face
Prerequisite and Co-requisites	: N/A
Objectives of the Course	: Teaching of plastic shaping techniques effects on strength and strain behaviors of materials and also its aimed examination of friction and lubrication effects on this techniques
Course Contents	: Metallurgical principles, strengthening processes, Friction and lubrication, forging, Rolling, Extrusion, Wire drawing
Recommended or Required Reading	: Służalec A., Theory of Metal Forming Plasticity: Classical and Advanced Topics, Springer NewYork, 2004 L.Çapan, Metals Plastic Forming, İstanbul, 2003 P. Polukhin, B. Grinberg, S. Kantenik, Metal Process Engineering, University Press of the Pacific, 2003
Planned Learning Activities and Teaching Methods	: Textbook, powerpoint presentations, whiteboard, assignments
Recommended Optional Programme Components	: N/A

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to reach the knowledge expansion and depth by doing scientific research in the field of engineering, to evaluate, interpret and apply knowledge
- 2 - To be able to develop methods to solve engineering problems and applying innovative methods in solutions.
- 3 - To be able to design and implement analytical, modeling and experimental based research; to analyze and interpret complex situations in this process.



Weekly Course Contents

Theoretical : Introduction to plastic shaping methods

Week 1 Practice :

Laboratory :

Theoretical : Basic principles of plastic deformation

Week 2 Practice :

Laboratory :

Theoretical : Metallurgical principles, strengthening processes

Week 3 Practice :

Laboratory :

Theoretical : The factors affecting plastic deformation

Week 4 Practice :

Laboratory :

Theoretical : The factors affecting plastic deformation

Week 5 Practice :

Laboratory :

Theoretical : Friction and lubrication, surface treatments

Week 6 Practice :

Laboratory :

Theoretical : Friction and lubrication, surface treatments

Week 7 Practice :

Laboratory :

Theoretical : Annealing furnaces, forging

Week 8 Practice :

Laboratory :

Theoretical : Midterm Exam

Week 9 Practice :

Laboratory :

Theoretical : Forging, rolling

Week 10 Practice :

Laboratory :

Theoretical : Rolling

Week 11 Practice :

Laboratory :



Theoretical : Extrusion

Week 12 Practice :

Laboratory :

Theoretical : Extrusion, Wire drawing

Week 13 Practice :

Laboratory :

Theoretical : Wire drawing

Week 14 Practice :

Laboratory :

Theoretical : Sheet shaping process

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	1,00
Assignment	Yes	15	15,00
Final	No	1	1,00
Attending lectures	Yes	15	45,00
Individual study before lecture	Yes	15	60,00
Individual study after lecture	Yes	15	60,00
Total Hours			182,00
ECTS			6,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	3	2	1	2	1	0	1	0	0	0	0
2	2	3	1	2	1	0	2	0	0	0	0
3	2	3	1	2	1	0	1	0	0	1	0
4	1	2	0	2	0	0	0	0	0	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Mould Materials and Heat Treatment Information

General Description

Course Name : Mould Materials and Heat Treatment Information

Course Code : EKT 2203

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 0

ECTS : 3

Name of Lecturer : Instructor Mustafa KIRMAN

Type of Course Unit : Optional

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** :

Course Contents :

**Recommended or
Required Reading**

**Planned Learning
Activities and
Teaching Methods**

**Recommended
Optional Programme
Components**

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

1 -

2 -

3 -

Weekly Course Contents

Week 0 Theoretical :

Practice :

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Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :



Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Total Hours			0,00
ECTS			0,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	3	3	3	2	0	1	2	1	0	0	0
2	3	3	3	2	0	1	0	1	0	0	0
3	3	2	3	3	2	1	0	0	0	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Welding Technology

General Description

Course Name : Welding Technology

Course Code : EKT 2205

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 0

ECTS : 3

Name of Lecturer : Instructor Mustafa KIRMAN

Type of Course Unit : Optional

Mode of Delivery : Face-To-Face

Prerequisite and Co-requisites : N/A

Objectives of the Course : Modern welding methods and their applications to be informed about.

Course Contents : The classification of welding methods in industrial production. To be able to comprehend the basic properties of industrial arc welding, electric arc welding, gas welding, oxy-gas welding, submerged welding and special welding methods.

Planned Learning Activities and Teaching Methods : Lectures, Practical Courses, Presentation, Seminar, Project, Laboratory Applications (if necessary)

Recommended or Required Reading : Manufacturing procedures, Prof. Assoc. Salahaddin Anık, Prof. Assoc. Adnan Dikicioğlu, Assoc. Dr. Murat Vural, ITU Mechanical Engineering, Birsen Publishing House, 1999.

Recommended :
Optional Programme Components

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to comprehend modern welding methods and application areas.
- 2 - To be able to investigate the metallurgical properties of weldability and weldability of metals.
- 3 - To be able to design welded constructions and to make strength calculations.
- 4 - To be able to understand the importance of quality control in weldment.



Theoretical : Modern welding methods and application areas.

Week 1 Practice :

Laboratory :

Theoretical : Weld capabilities of metals and metallurgical examination of weldability

Week 2 Practice :

Laboratory :

Theoretical : Welding machines

Week 3 Practice :

Laboratory :

Theoretical : To open welding gap in electric arc welding

Week 4 Practice :

Laboratory :

Theoretical : Electric arc welding

Week 5 Practice :

Laboratory :

Theoretical : Electric arc welding Blunt, V, overlay and horizontal corner welding processes.

Week 6 Practice :

Laboratory :

Theoretical : Electric arc welding Blunt, V, overlay and horizontal corner welding processes.

Week 7 Practice :

Laboratory :

Theoretical : Midterm-exam

Week 8 Practice :

Laboratory :

Theoretical : Protective gas welding Types of gas used.

Week 9 Practice :

Laboratory :

Theoretical : Oxy-gas welding process

Week 10 Practice :

Laboratory :

Theoretical : Oxy-gas welding process

Week 11 Practice :

Laboratory :

Theoretical : Welded construction, and strength accounts

Week 12 Practice :

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evraç sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Theoretical : Welded construction, and strength accounts

Week 13 Practice :
Laboratory :

Theoretical : Quality assurance and control on weld.

Week 14 Practice :
Laboratory :

Theoretical : Overview

Week 15 Practice :
Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	1,00
Final	No	1	1,00
Attending lectures	Yes	10	50,00
Application / Practice	Yes	10	40,00
Total Hours			92,00
ECTS			3,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	2	0	2	0	0	2	1	0	0	0	0
2	0	2	0	2	0	0	0	0	0	0	0
3	1	5	2	0	3	0	3	3	0	0	0
4	0	2	0	0	0	0	0	0	0	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Cutting Tools Technology

General Description

Course Name	: Cutting Tools Technology
Course Code	: EKT 2207
Qualification Level	: Short Cycle
Qualification Degree	: PreBachelor Degree
Course Language	: Turkish
Theoretical Credits	: 2
Laboratory Credits	: 0
Practice Credits	: 0
ECTS	: 3
Name of Lecturer	: Instructor Mustafa KIRMAN
Type of Course Unit	: Optional
Mode of Delivery	: Face-To-Face
Prerequisite and Co-requisites	: N/A
Objectives of the Course	: Introducing cutting tools and teaching the parameters to be used in the field of application (cutting speed, progress, rotation etc.).
Course Contents	: Machining and chip formation, Machinability, tool life, cutting forces and strength, cutting parameters, chip types, effect of temperature on tool, surface roughness and measurement, surface quality calculation, Cutting tool materials, ideal tool properties, tool geometry, effects of saw angle, ISO tool norms according to workpiece materials, Cutting tool selection criteria, docking angle, negative and positive tools, cutting tool and tool standards
Recommended or Required Reading	: Modern Machining Methods, Prof.Dr. Dr. M. Cemal Çakır, Dora Publishing, Bursa, 2011
Planned Learning Activities and Teaching Methods	: Homework + Report preparation
Recommended Optional Programme Components	

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to select suitable cutting tool for manufacturing process.
- 2 - To be able to make necessary calculations about cutting tool.
- 3 - To be able to understand general information about cutting tool technologies.
- 4 - To be able to select ISO tool holders according to workpiece materials.

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evrat sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Weekly Course Contents

Theoretical : Machining and chip formation

Week 1 Practice :

Laboratory :

Theoretical : Machinability concept and machinability parameters

Week 2 Practice :

Laboratory :

Theoretical : Tool life and tool life models

Week 3 Practice :

Laboratory :

Theoretical : Cutting forces in chip removal, force measurement

Week 4 Practice :

Laboratory :

Theoretical : Effects of cutting parameters on chip removal

Week 5 Practice :

Laboratory :

Theoretical : Heat and temperature distribution, effects of temperature on the tool

Week 6 Practice :

Laboratory :

Theoretical : Heat and temperature distribution, effects of temperature on the tool

Week 7 Practice :

Laboratory :

Theoretical : Midterm

Week 8 Practice :

Laboratory :

Theoretical : Surface roughness and measurement, calculation of surface quality

Week 9 Practice :

Laboratory :

Theoretical : Cutting tool materials

Week 10 Practice :

Laboratory :

Theoretical : Ideal tool properties, tool geometry, effects of saw blade angle

Week 11 Practice :

Laboratory :



Practice :

Laboratory :

Theoretical : Cutting tool selection criteria and tool selection

Week 13 Practice :

Laboratory :

Theoretical : Docking angle, negative and positive sets, corner radii effect

Week 14 Practice :

Laboratory :

Theoretical : Cutting tool coating methods and effects of coating Cutter and tool holder standards

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	1,00
Final	No	1	1,00
Attending lectures	Yes	10	20,00
Individual study before lecture	Yes	15	30,00
Individual study after lecture	Yes	15	30,00
Preparation for midterm	Yes	1	5,00
Preparation for final	Yes	1	5,00
Total Hours			92,00
ECTS			3,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	1	1	2	2	0	0	1	0	0	0	0
2	3	2	2	0	2	0	1	0	0	0	0
3	2	1	1	1	1	0	0	0	0	0	0
4	2	2	1	2	1	0	1	0	1	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Advanced Manufacturing Technology 2

General Description

Course Name : Advanced Manufacturing Technology 2

Course Code : EKT 2209

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 0

ECTS : 3

Name of Lecturer : Instructor Mustafa KIRMAN

Type of Course Unit : Optional

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** : The purpose of this course is to give theoretical knowledge about Classify different non-traditional machining processes , Describe the basic mechanism of material removal in non-traditional machining processes and Applications and limitations of non-traditional machining processes . In this course, using of these techniques in industry are also taught by giving examples.

Course Contents : Main Properties Of Traditional And Non-Traditional Machining Processes Differences Between Traditional And Non-Traditional Machining Processes And Classification Of Non-Traditional Machining Processes Abrasive Jet Machining (AJM) Ultrasonic Machining (USM) Water-Jet Machining (WJM) Abrasive Water-Jet Machining (AWJM) Electrochemical Machining (ECM), Electrochemical Grinding (ECD) And Electro Jet Machining (EJM) Electrical-Discharge Machining (EDM) Midterm Exam Wire Electrical-Discharge Machining (WEDM) Laser-Beam Machining (LBM), Electron-Beam Machining (EBM) Chemical Machining And Photochemical Machining, Rapid Prototyping

**Recommended or
Required Reading** : Lecure Notes. MODERN MANUFACTURES / Fundamentals of Modern Manufacturing: Materials, Processes, and Systems Author (s) Mikell GROOVER, Murat VURAL, Turgut GÜLMEZ

**Planned Learning
Activities and
Teaching Methods** : Lectures, presentations, homework, report writing.

**Recommended
Optional Programme
Components** :

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

Bu belge, güvenli [ebd](https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378) (To be able to comprehend) ile [comprehend](https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378) (To be able to comprehend) içeriğindeki teknolojilerin ve özel üretim yöntemlerinin özelliklerini理解 (To be able to comprehend) etmek üzere hazırlanmıştır. Evrak sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



- 2 - To be able to Understand the differences between traditional and special manufacturing methods
- 3 - To be able to identify situations that need special manufacturing methods.
- 4 - To be able to apply working principles in special manufacturing methods.
- 5 - To be able to understand the applications and limitations of special manufacturing methods.

Weekly Course Contents

Theoretical : Main Properties Of Traditional And Non-Traditional Machining Processes

Week 1 Practice :

Laboratory :

Theoretical : Differences Between Traditional And Non-Traditional Machining Processes And Classification Of Non-Traditional Machining Processes

Week 2 Practice :

Laboratory :

Theoretical : Abrasive Jet Machining (AJM)

Week 3 Practice :

Laboratory :

Theoretical : Ultrasonic Machining (USM)

Week 4 Practice :

Laboratory :

Theoretical : Water-Jet Machining (WJM)

Week 5 Practice :

Laboratory :

Theoretical : Abrasive Water-Jet Machining (AWJM) Electrochemical Machining (ECM), Electrochemical Grinding (ECD) And Electro Jet Machining (EJM)

Week 6 Practice :

Laboratory :

Theoretical : Abrasive Water-Jet Machining (AWJM) Electrochemical Machining (ECM), Electrochemical Grinding (ECD) And Electro Jet Machining (EJM)

Week 7 Practice :

Laboratory :

Theoretical : Midterm Exam

Week 8 Practice :

Laboratory :

Theoretical : Electrical-Discharge Machining (EDM)

Week 9 Practice :

Laboratory :

Week 10 Theoretical : Wire Electrical-Discharge Machining (WEDM)

Bu belge, güvenli elektronik İmza ile imzalanmıştır.

Evrak sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Laboratory :

Theoretical : Laser-Beam Machining (LBM), Electron-Beam Machining (EBM)

Week 11 Practice :

Laboratory :

Theoretical : Chemical Machining And Photochemical Machining, Rapid Prototyping

Week 12 Practice :

Laboratory :

Theoretical : Assignment control

Week 13 Practice :

Laboratory :

Theoretical : Assignment control

Week 14 Practice :

Laboratory :

Theoretical : Overview

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	25,00
Final	No	1	55,00
Total Hours			80,00
ECTS			3,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	2	2	0	1	0	1	2	0	0	0	0
2	1	2	0	0	1	0	0	2	0	0	0
3	3	1	2	2	1	0	0	1	0	0	0
4	2	0	1	0	1	0	0	1	0	0	0
5	0	2	0	0	1	0	1	0	0	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Special Manufacturing Methods

General Description

Course Name : Special Manufacturing Methods

Course Code : EKT 2211

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 0

ECTS : 3

Name of Lecturer : Instructor Mustafa KIRMAN

Type of Course Unit : Optional

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** : The purpose of this course is to give theoretical knowledge about Classify different non-traditional machining processes , Describe the basic mechanism of material removal in non-traditional machining processes and Applications and limitations of non-traditional machining processes . In this course, using of these techniques in industry are also taught by giving examples.

Course Contents : To be able to comprehend the basic properties of advanced welding methods used in industrial production , various non-traditional production methods of electro erosion, chemical etching and laser cutting .

**Recommended or
Required Reading** : Special Manufacturing Techniques, Mehmet Brief, Simav, Bursa, 2002.

**Planned Learning
Activities and
Teaching Methods** : Lectures, presentations, homework, report writing.

**Recommended
Optional Programme
Components** :

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to comprehend the properties of traditional and special manufacturing methods.
- 2 - To be able to Understand the differences between traditional and special manufacturing methods.
- 3 - To be able to identify situations that need special manufacturing methods.
- 4 - To be able to apply working principles in special manufacturing methods.

5 - To be able to understand the applications and limitations of special manufacturing methods.

Bu belge, güvenli elektronik imza ile imzalanmıştır.
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Weekly Course Contents

Theoretical : Main Properties Of Traditional And Non-Traditional Machining Processes

Week 1 Practice :

Laboratory :

Theoretical : Differences Between Traditional And Non-Traditional Machining Processes And Classification Of Non-Traditional Machining Processes

Week 2 Practice :

Laboratory :

Theoretical : Abrasive Jet Machining (AJM)

Week 3 Practice :

Laboratory :

Theoretical : Ultrasonic Machining (USM)

Week 4 Practice :

Laboratory :

Theoretical : Water-Jet Machining (WJM) Abrasive Water-Jet Machining (AWJM)

Week 5 Practice :

Laboratory :

Theoretical : Electrochemical Machining (ECM), Electrochemical Grinding (ECD) And Electro Jet Machining (EJM)

Week 6 Practice :

Laboratory :

Theoretical : Electrochemical Machining (ECM), Electrochemical Grinding (ECD) And Electro Jet Machining (EJM)

Week 7 Practice :

Laboratory :

Theoretical : Midterm Exam

Week 8 Practice :

Laboratory :

Theoretical : Electrical-Discharge Machining (EDM)

Week 9 Practice :

Laboratory :

Theoretical : Wire Electrical-Discharge Machining (WEDM)

Week 10 Practice :

Laboratory :

Week 11 Theoretical : Wire Electrical-Discharge Machining (WEDM)

Bu belge, güvenli elektronik **İmza** ile **Pratice** zaten yapılmıştır.
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Laboratory :

Theoretical : Laser-Jet Machining, Electro-Ray Machining

Week 12 Practice :

Laboratory :

Theoretical : Laser-Jet Machining, Electro-Ray Machining

Week 13 Practice :

Laboratory :

Theoretical : Chemical Machining And Photochemical Machining, Rapid Prototyping

Week 14 Practice :

Laboratory :

Theoretical : Chemical Machining And Photochemical Machining, Rapid Prototyping

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Attending lectures	Yes	14	14,00
Midterms	Yes	1	3,00
Final	No	1	3,00
Individual study before lecture	Yes	14	14,00
Individual study after lecture	Yes	14	28,00
Preparation for midterm	Yes	1	8,00
Preparation for final	Yes	1	12,00
Homework	Yes	2	14,00
Total Hours			96,00
ECTS			3,00

Program and Learning Outcomes Relations

1	2	3	4	5	6	7	8	9	10	11
1	2	2	0	2	2	0	1	1	0	0
2	1	2	0	0	1	2	1	0	0	0
3	2	2	0	1	1	0	0	0	0	0
4	2	1	0	2	0	2	0	0	0	0
5	1	2	0	0	0	0	1	1	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding Plastic Blow Molding and Extrusion

General Description

Course Name : Plastic Blow Molding and Extrusion

Course Code : EKT 2213

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 2

Laboratory Credits : 0

Practice Credits : 0

ECTS : 3

Name of Lecturer : Instructor Mustafa KIRMAN

Type of Course Unit : Optional

Mode of Delivery : Face-To-Face

**Prerequisite and Co-
requisites** : N/A

**Objectives of the
Course** :

Course Contents :

**Recommended or
Required Reading**

**Planned Learning
Activities and
Teaching Methods**

**Recommended
Optional Programme
Components**

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

1 -

2 -

3 -

4 -

Weekly Course Contents

Week 0 Theoretical :

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
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Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :

Theoretical :

Week 0 Practice :

Laboratory :



Theoretical :

Week 0

Practice :

Laboratory :

Theoretical :

Week 0

Practice :

Laboratory :

Theoretical :

Week 0

Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Total Hours			0,00
ECTS			0,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	3	2	2	1	0	0	1	0	0	0	0
2	2	1	0	2	0	1	0	0	0	0	0
3	2	2	0	1	2	0	0	2	0	0	0
4	2	1	2	3	0	0	2	0	0	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Vocational Training in Workplace

General Description

Course Name : Vocational Training in Workplace

Course Code : MYO 2002

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 5

Laboratory Credits : 0

Practice Credits : 0

ECTS : 18

Name of Lecturer : Instructor Mustafa KIRMAN

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

Prerequisite and Co-requisites : N/A

Objectives of the Course : To develop students' knowledge, skills, attitudes and working habits in their learning periods, skills and experiences in laboratory and workshop practices, to provide their responsibilities, relationships, organization and production processes and new technologies to learn.

Course Contents : To find opportunity to apply their knowledge in public or private organizations in accordance with the lessons they have seen, to apply production and service processes in the workplace.

Recommended or Required Reading : Manisa Celal Bayar University Sector Applications Education Directive (<https://sus.cbu.edu.tr/ISS/Application/Content/HomePage/Files/SUS-Yonerge.pdf>)

Planned Learning Activities and Teaching Methods : Lecture, Drill and Practice, Demonstration, Show Work, Group Work, Experimental / Laboratory, Individual Study, Project Based Learning

Recommended Optional Programme Components

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to prepare for business
- 2 - To be able to be ready to group work
- 3 - To be able to improve knowledge and skill of production methods
- 4 - To be able to understand the importance of quality and control in manufacturing



Weekly Course Contents

Theoretical : Introducing the internship, studying the physical possibilities of the employer. Orientation. Examination of work flow charts.

Week 1 Practice : Inspection, observation and reporting of work done.

Laboratory :

Theoretical : To do maintenance, repair and assembly applications related to the field of industry. Making related applications.

Week 2 Practice : Inspection, observation and reporting of work done.

Laboratory :

Theoretical : To do maintenance, repair and assembly applications related to the field of industry. Making related applications.

Week 3 Practice : Inspection, observation and reporting of work done.

Laboratory :

Theoretical : To do maintenance, repair and assembly applications related to the field of industry. Making related applications.

Week 4 Practice : Inspection, observation and reporting of work done.

Laboratory :

Theoretical : To do maintenance, repair and assembly applications related to the field of industry. Making related applications.

Week 5 Practice : Inspection, observation and reporting of work done.

Laboratory :

Theoretical : To do maintenance, repair and assembly applications related to the field of industry. Making related applications.

Week 6 Practice : Inspection, observation and reporting of work done.

Laboratory :

Theoretical : To do maintenance, repair and assembly applications related to the field of industry. Making related applications.

Week 7 Practice : Inspection, observation and reporting of work done.

Laboratory :

Theoretical : To do maintenance, repair and assembly applications related to the field of industry. Making related applications.

Week 8 Practice : Inspection, observation and reporting of work done.

Laboratory :

Theoretical : To do maintenance, repair and assembly applications related to the field of industry. Making related applications.

Week 9 Practice : Inspection, observation and reporting of work done.

Laboratory :

Theoretical : To do maintenance, repair and assembly applications related to the field of industry. Making related applications.

Week 10 Practice : Inspection, observation and reporting of work done.

Bu belge, güvenli elektronik İmza ile imzalanmıştır.
Evraç sorgulaması <https://turkiye.gov.tr/ebd?eK=4049&eD=BS4EDF7RL2&eS=807378> adresinden yapılabilir.



Week 11

Theoretical : To do maintenance, repair and assembly applications related to the field of industry. Making related applications.

Practice : Inspection, observation and reporting of work done.

Laboratory :

Theoretical : To do maintenance, repair and assembly applications related to the field of industry. Making related applications.

Practice : Inspection, observation and reporting of work done.

Laboratory :

Theoretical : To do maintenance, repair and assembly applications related to the field of industry. Making related applications.

Practice : Inspection, observation and reporting of work done.

Laboratory :

Theoretical : To do maintenance, repair and assembly applications related to the field of industry. Making related applications.

Practice : Inspection, observation and reporting of work done.

Laboratory :

Theoretical : To do maintenance, repair and assembly applications related to the field of industry. Making related applications.

Practice : Inspection, observation and reporting of work done.

Laboratory :

Theoretical : To do maintenance, repair and assembly applications related to the field of industry. Making related applications.

Practice : Inspection, observation and reporting of work done.

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Application / Practice	Yes	15	120,00
Internship-Competency	Yes	15	60,00
Field study	Yes	15	120,00
Short cycle-Practice	Yes	15	120,00
Short cycle-Theoretical	Yes	15	60,00
Workshop	Yes	15	60,00
Total Hours			540,00
ECTS			18,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	2	1	4	3	1	2	2	3	1	2	0
2	0	0	0	0	0	2	0	3	1	0	0
3	0	0	0	0	3	0	3	0	0	0	3

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4	0	0	0	0	0	0	0	0	0	0	0
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MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Atatürk's Principles and History of Revolution

General Description

Course Name : Atatürk's Principles and History of Revolution

Course Code : AİT 2102

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 4

Laboratory Credits : 0

Practice Credits : 0

ECTS : 4

Name of Lecturer : Instructor SERKAN CANSEVEN

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

Prerequisite and Co-requisites : N/A

Objectives of the Course : 1 - Atatürk's principles and reforms, independent, democratic and secular training of generations 2 - Turkish youth, to gain confidence in national history and consciousness 3 - Basic understand the dynamics of Turkish Modernization

Course Contents : 1 - Principles of Atatürk and purpose of the course, taught 2 - The causes of decay of the Ottoman Empire 3 - World War I and the results 4 - Response to the occupation and Mustafa Kemal Pasha 5 - National Pact and T.B.M.M. 's opening 6 - Wars and the Treaty of Lausanne

Recommended or Required Reading : 1- Sound, I, II, III 2- Atatürk's Lectures and Statements I, II, III 3- Atatürk Way Professor Dr. Turan Feyzioğlu Professor Dr. Hamza Eroğlu Professor Dr. Mustafa Aysan 4- Çankaya Falih Rıfkı Atay 5- Atatürk's Principles and History of Turkish Revolution Professor Dr. Refik Turan Professor Dr. Mustafa Safran Professor Dr. Necdet Hayta

Planned Learning Activities and Teaching Methods : Maps, Computers, Slideshow, DVD, VCD

Recommended Optional Programme Components : None

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to comprehend developments in European history and Ottoman modernization
- 2 - To be able to decline the Ottoman Empire to explain the reasons
- 3 - To be able to learn the causes and consequences of World War I

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5 - To be able to understand the foundation philosophy of the Republic of Turkey better

Weekly Course Contents

Theoretical : Reading for the Purpose of the Atatürk Principles and Revolution History Class
 The Fall of the Ottoman Empire

Week 1

Practice :

Laboratory :

Theoretical : The Fall of the Ottoman Empire Administrative Reforms and I. Constitutionalism

Week 2

Practice :

Laboratory :

Theoretical : Reasons for the Monarchy and the Turkish Revolution

Week 3

Practice :

Laboratory :

Theoretical : World War I and the Armistice Agreement

Week 4

Practice :

Laboratory :

Theoretical : General Situation of the country against the occupation Mustafa Kemal Pasha's Response

Week 5

Practice :

Laboratory :

Theoretical : Mustafa Kemal Pasha at Samsun and The Congresses

Week 6

Practice :

Laboratory :

Theoretical : Mustafa Kemal Pasha at Samsun and The Congresses

Week 7

Practice :

Laboratory :

Theoretical : Mid-term\exam

Week 8

Practice :

Laboratory :

Theoretical : Opening of Meclis-i Mebusan and Misak-ı Milli

Week 9

Practice :

Laboratory :

Theoretical : T.B.M.M.'s Opening and Structure

Week 10

Practice :

Laboratory :

Week 11 Theoretical : Facades, I. and II. Inonu, Sakarya War, The Great Raid, The Treaty of Mudanya
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Laboratory :

Theoretical : The Treaty of Lausanne

Week 12 Practice :

Laboratory :

Theoretical : Proclamation of the Republic, Turkey's geopolitical position

Week 13 Practice :

Laboratory :

Theoretical : Foreign Policy of the Republic of Turkey

Week 14 Practice :

Laboratory :

Theoretical : Overview

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Attending lectures	Yes	14	28,00
Preparation for midterm	Yes	1	3,00
Preparation for final	Yes	1	3,00
Midterms	Yes	1	1,00
Final	No	1	1,00
Individual study before lecture	Yes	14	42,00
Individual study after lecture	Yes	14	42,00
Total Hours			120,00
ECTS			4,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0
5	0	0	1	0	1	0	0	0	0	0	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding

Turkish Language

General Description

Course Name : Turkish Language

Course Code : TDL 2102

Qualification Level : Short Cycle

Qualification Degree : PreBachelor Degree

Course Language : Turkish

Theoretical Credits : 4

Laboratory Credits : 0

Practice Credits : 0

ECTS : 4

Name of Lecturer : Lecturer MUSTAFA YEMİŞ

Type of Course Unit : Compulsory

Mode of Delivery : Face-To-Face

Prerequisite and Co-requisites : N/A

Objectives of the Course : The overall objective of this course, individuals who understand the subtlety and depth listening, and reading the Turkish language-rich, well-established and productive to show that a language, language and consciousness awaken love, pleasure and acquire the habit of reading, to adopt the core values of Turkish society; briefly thinking and communication skills of individuals to develop.

Course Contents : Each student in the graduate and undergraduate education, according to comprehend the main language structure and function of language-thought in terms of connectivity, through written and oral expression, the Turkish right and gain the ability to use beautiful, these rules and native speakers of the language in an awareness of judges and they will have to make. The perfect way to express ideas in accordance with the purpose of rhetoric, including the necessary rules (speaking) knowledge of each profession for educated young people has become a very important need. In this regard, given to institutions of higher education courses in Turkish language, Turkish, and literature courses in high schools as a continuation of the rhetoric, especially in the field will be useful to intensify. On the other hand, a written essay as well as young people, to acquire the habit of speaking correctly and effectively is an issue that should not be neglected. Western countries, drawing upon the books written on this topic, Turkish course programs to address the audience, it is possible to teach techniques and methods of the rule. In this regard, particularly as Ataturk, the Turkish speecher's valuable speech will be taken to benefit from the texts.

Recommended or Required Reading : Aksan, Dogan, Every Direction Language / Linguistics with Main Lines, c.1,2,3, Turkish Language Institution, 1979-1982 Aksoy, Ömer Asım, Dictionary of Proverbs, İnkilap Bookstore, January 1988 Aksoy, Ömer Asım, Dictionary of Idioms, İnkilap Bookstore, January 1988 Atatürk, Mustafa Kemal, Speech Banguoğlu, Tahsin, Turkish Grammer, Turkish Language Institute Publications, 2000 Bozkurt, Fuat, Turkish, İstanbul, 1975 Buckley, Reid, Speaking at the Community, System Publishing, May 2001 Dilçin, Cem, New Screening Dictionary, Ankara, 1983 Ergin, Muharrem, Turkish Language for Universities, Bayrak Publications, 2002 Gencan, Tahir Nejat, Grammar, Ayraç Publishing House, October 2001 Karaalioğlu, Seyit Kemal, Composition Art, İstanbul, January 1999 Karahan, Leyla, Türkçede Syntax, Akçağ Publications, 1999 Kudret, Cevdet, Literature Information by Examples, c. 1, 2, İnkilap Bookstore, 1981 Koc, Nurettin, New Grammar, İstanbul, 1990 Moran, Berna, A Critical Look at Turkish Names, c. 1, 2, 3, Communication Publications, 1983-1994 Özdemir, Emin, Güzel an-

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Planned Learning Activities and Teaching Methods	Description, discussion, presentation, brainstorming.
Recommended Optional Programme Components	N/A

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to explain the characteristics of Turkish language by sensing its usage procedure with examples.
- 2 - To be able to express the function, dimensions of language and its relationship with thought, culture, and society.
- 3 - To be able to distinguish between the concepts of spoken language and written language;
- 4 - To be able to analyze a text they read or follow a program they watch.
- 5 - To be able to correctly and affectively express their feelings, thoughts, impressions, observations both in written and spoken language.
- 6 - To be able to identify the historical background of Turkish and its location among world languages;
- 7 - To be able to apply the basic concepts of morphology;
- 8 - To be able to explain the concepts about syntax and semantics.
- 9 - To be able to identify the mistakes in the usage of the language and show them on the texts.
- 10 - To be able to become an individual who is tolerant and cares about his values, and also, someone who can find solutions to the problems and correctly express his ideas about these problems both in written and spoken language.

Weekly Course Contents

	Theoretical : What is language? In people's life the importance of language as a social institution. Relationship between language and culture
Week 1	Practice : Laboratory :
	Theoretical : Language in terms of structure and origin. Place of Turkish language among world languages.
Week 2	Practice : Laboratory :
	Theoretical : The development of Turkish written language. Historical stages of Turkish written language.
Week 3	Practice : Laboratory :
	Theoretical : The current status of the Turkish language, expansion areas of the Turkish language.
Week 4	Practice : Laboratory :



Practice :

Laboratory :

Theoretical : Turkish sound features and sound knowledge of the rules The structure of syllables in Turkish, syllable types, stress and intonation

Week 6

Practice :

Laboratory :

Theoretical : Midterm-exam

Week 7

Practice :

Laboratory :

Theoretical : Spelling rules and application. Mid-term exam.

Week 8

Practice :

Laboratory :

Theoretical : Spelling rules and application. Mid-term exam.

Week 9

Practice :

Laboratory :

Theoretical : Punctuation and its applications.

Week 10

Practice :

Laboratory :

Theoretical : Morphology, lexis structure, word formation.

Week 11

Practice :

Laboratory :

Theoretical : Construction and suffixes, word analysis.

Week 12

Practice :

Laboratory :

Theoretical : The word types. Noun, adjective.

Week 13

Practice :

Laboratory :

Theoretical : The word types. Adverb, pronouns, prepositions, conjunctions and interjections

Week 14

Practice :

Laboratory :

Theoretical : The word types. Verbs, gerunds, infinitives, active-passive.

Week 15

Practice :

Laboratory :

ECTS Workload

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Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	1,00
Assignment	Yes	1	4,00
Final	No	1	1,00
Attending lectures	Yes	14	28,00
Individual study before lecture	Yes	14	42,00
Individual study after lecture	Yes	14	42,00
Preparation for midterm	Yes	1	4,00
Preparation for final	Yes	1	4,00
Total Hours			126,00
ECTS			4,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	4	0	0	0	0	0	4	0	0	0	0
2	0	0	0	0	0	0	3	0	3	0	0
3	0	0	0	0	0	0	0	0	0	0	0
4	4	3	4	3	0	0	4	0	0	0	0
5	3	4	3	0	0	0	4	0	4	0	0
6	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0
8	3	0	0	0	0	0	0	0	0	0	0
9	4	4	3	4	0	0	3	0	0	0	0
10	3	0	0	3	3	0	3	0	0	2	0



MANİSA VOCATIONAL SCHOOL OF TECHNICAL SCIENCES - Industrial Molding Foreing Language

General Description

Course Name	: Foreing Language
Course Code	: YDI 2102
Qualification Level	: Short Cycle
Qualification Degree	: PreBachelor Degree
Course Language	: Turkish
Theoretical Credits	: 4
Laboratory Credits	: 0
Practice Credits	: 0
ECTS	: 4
Name of Lecturer	: Instructor EMEL GENÇ
Type of Course Unit	: Compulsory
Mode of Delivery	: Face-To-Face
Prerequisite and Co-requisites	: N/A
Objectives of the Course	: The aim of this course is to provide the first year students with the opportunity of getting familiar with basic English
Course Contents	: Elementary level vocabulary, grammar and four skills of English.
Recommended or Required Reading	: Headway-Elementary (Oxford)
Planned Learning Activities and Teaching Methods	: Lecture, 2: Question-Answer, 3: Discussion, 4: Drills and Practice
Recommended Components	: N/A
Optional Programme Components	: N/A

Learning Outcomes

Upon successful completion of this course, the enrolled students will be gaining the following knowledge, skills and competences ;

- 1 - To be able to understand basic English grammar.
- 2 - To be able to grasp the meaning of basic vocabulary.
- 3 - To be able to speak, read and write in English at Elementary Level.
- 4 - To be able to introduce yourself.

Weekly Course Contents

Week 1 Theoretical : regular/irregular verbs

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Practice : Writing telling a story

Laboratory :

Theoretical : Unit 7 Introducing people time expressions

Week 2 Practice : reading sixty years of flight

Laboratory :

Theoretical : unit 8 countable and uncountable nouns how much/how many

Week 3 Practice : reading and speaking "The history of the sandwich" okuma parçasını okuyup anlamak Your favourite recipe bahsetmek

Laboratory :

Theoretical : some/any

Week 4 Practice : Listening "What's your favourite sandwich"

Laboratory :

Theoretical : unit 9 Comparatives Have got/has got Superlatives

Week 5 Practice : Reding " Mega cities"

Laboratory :

Theoretical : adjectives Unit 10 Present continuous tense in/on/at

Week 6 Practice : Describing a flat Writing Comparing people you know

Laboratory :

Theoretical : Midterm Exam

Week 7 Practice :

Laboratory :

Theoretical : Present continuous tense in/on/at Simple present& present continuous

Week 8 Practice :

Laboratory :

Theoretical : Present continuous tense in/on/at Simple present& present continuous

Week 9 Practice : Reading "Living in Space"

Laboratory :

Theoretical : Unit 11 going to/will making suggestions

Week 10 Practice : Writing Describing a holiday"

Laboratory :

Theoretical : Unit 11 Simple past& present perfect

Week 11 Practice : speaking Talking about you Have you ever

Laboratory :

Theoretical : Simple past& present perfect tense revision

Week 12 Practice : Talk Survey 'What can you do?' Reading and speaking 'Super Children' Writing letters for business applicants.

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Theoretical : Unit 6 could Was born homonym for

Week 13 Practice : Using 'could' for past skills. Define where and when you are born. Finding the same pronounced different words.

Laboratory :

Theoretical : Revision

Week 14 Practice : Overview

Laboratory :

Theoretical : Overview

Week 15 Practice :

Laboratory :

ECTS Workload

Activity Type	Is in Semester	Number	Calculated Activity Workload
Midterms	Yes	1	1,00
Final	No	1	1,00
Attending lectures	Yes	12	36,00
Individual study before lecture	Yes	12	36,00
Individual study after lecture	Yes	12	36,00
Preparation for midterm	Yes	12	12,00
Total Hours			122,00
ECTS			4,00

Program and Learning Outcomes Relations

	1	2	3	4	5	6	7	8	9	10	11
1	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0

