Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

D0000103	GERMAN I				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
1	D0000103	GERMAN I	3	3	3

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Elective
Objectives of the Course:
The aim of the course is to make students acquire German language as the second foreign language at basic level.
Teaching Methods and Techniques:
Alphabet, numbers, basic grammar rules, telling the time, easy daily conversations, some common formal and informal phrases etc.
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:

Assistants:

Recommended or Required Reading

Resources

1- Aufderstrasse, Hartmut; Themen aktuell 1 (Kursbuch und Arbeitsbuch), Max Hueber Verlag, 2006. 2- Aufderstrasse, Hartmut; Lagune 1 Deutsch als

Course Category

Mathmatics and Basic Sciences	:	**Education**	:	
Engineering	:	**Science**	:	
Engineering Design	:	**Health**	:	
Social Sciences	:	**Field**	:	100

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Guests' Arrival to the Hotel		
2	Studying details of "Guests' Arrival to the Hotel" subject		
3	Room and Breakfast		
4	Correspondence and Telephone Service		
5	Studying the details of "Correspondence and Telephone Service" subject		
6	Service in a hotel		
7	Instructions, getting information and informing		
8	Instructions, getting information and informing		
9	Studying details of "instructions, getting information and informing" subject		
10	Activities in a hotel		
11	Activities in a hotel		
12	Activities in a holiday resort		
13	Studying details of "activities in a holiday resort" subject		
14	General Revision		

Course Learning Outcomes

No	Learning Outcomes
C01	They get to know German alphabet and phones.
C02	They learn about basic German grammar.
C03	They can make some simple daily conversations.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria		
In-Term Studies	**Quantity**	**Percentage**
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload			
Activities	**Quantity**	**Duration**	**Total Work Load**
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	14	1	14
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			**58**
ECTS Credit of the Course			**2**

Contribution of Learning Outcomes to Programme Outcomes
bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

D0000106	Ataturk's Principles and History of Turkish Revolution I				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
1	D0000106	Ataturk's Principles and History of Turkish Revolution I	2	2	2

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
In order to understand conditions and features of the establishment of Republic of Turkey: To understand the reasons that forced Turkish nation to have Independence War, in which condition and within which terms Turkish War of Independence took place, upon which basis the state was established, and finally to educate next generations who know establishment philosophy of the state and who are respectful to Turkish state and nation.
Teaching Methods and Techniques:
Aim of the course, its scope, and basic concepts. Final period of Ottoman Empire, its problems, modernization efforts and collapse. Turkish War of Independence.
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Specialist Dr. Adnan GELMEZSpecialist Dr. Sadet ALTAYSpecialist Dr. Ayşe ERYAMANSpecialist Dr. Sabri ZENGİNSpecialist Dr. İzzet Bahri ATEŞLİ
Assistants:

Recommended or Required Reading

Resources 2- YÖK-Komisyon, Atatürk İlkeleri ve İnkılâp Tarihi, Ankara 1989.,1- Kemal Atatürk, Nutuk I-III, İstanbul 1993. ,3- Komisyon, Türkiye Cumhuriyeti Tarih Sabri ZENGİN, Atatürk İlkeleri ve İnkılâp Tarihi, 2. Baskı, Taşhan Kitap, Tokat 2016.

Course Category

Mathmatics and Basic Sciences	:		**Education**	:	
Engineering	:		**Science**	:	
Engineering Design	:		**Health**	:	
Social Sciences	:	100	**Field**	:	

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	The aim of the course and resources		
2	Basic concepts related to the course Revolution, reform, upheaval, rebellion, blow. The principle of Ataturk's Revolution.		
3	Internal reasons for the decline of the Ottoman Empire The problems that occurred in public administration, education, ec		
4	External reasons for the decline of the Ottoman Empire Colonialism, industrial revolution, imperialism. The Eastern Questi		
5	The basic concepts of the contemporary world Enlightenment, democracy, secularism, liberalism, socialism, nationalisn		
6	Reform movements of the Ottoman Empire Lale devri (Tulip period). Selim III and Mahmut II reforms.		
7	Reform movements of the Ottoman Empire Tanzimat and Islahat in the reform era. New Ottomans. Constitutional monar		
8	Midterm Exam		
9	Intellectual movements in the late Ottoman period Westernism, Ottomanism, Islamism, Turkism		
10	The fall of the Ottoman Empire Trablusgarb War. Balkan War. World War I. Armenian question.		
11	The fall of the Ottoman Empire The end of World War I: The Armistice of Mondros. Invasions after the Armistice. Separa		
12	Of national struggle Salvation suggestions: Protection mandate and supporters. Suggestions on regional liberation. Full i		
13	Of national struggle Atatürk's arrival to Anatolia. Conventions as mergers of the national struggle.		
14	Of national struggle The concept of the National Pact. Anatolia, pass control. The opening of Parliament. Features of the		
15	Of national struggle Anatolia, pass control. The opening of Parliament. Features of the Parliament		

Course Learning Outcomes

No	Learning Outcomes
C01	Models of change in the world to compare with the characteristics of Ottoman modernization and change is, led by Atatürk.
C02	Turkish nation the reasons for analysis of contemporary medeniyetten must remain back.
C03	After colonialism and the industrial revolution and the developments in international relations to explain the effects of these developments on Turkey.
C04	To explain the basic concepts that are effective in shaping the modern world.
C05	How to Know the stages and characteristics of Ottoman modernization.
C06	The imperialist ambitions of the states on the territory of Turkey, who want to divide Turkey to recognize the separatist elements.
C07	That the establishment of National Defence of Turkey national and spiritual values based on the knowledge of unity and togetherness, conscious of these values to take ownership of and commitme
C08	Defence of Turkey feelings of gratitude to the heroes of this struggle to have succeeded.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria		
In-Term Studies	**Quantity**	**Percentage**
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload			
Activities	**Quantity**	**Duration**	**Total Work Load**
Course Duration	15	2	30
Hours for off-the-c.r.stud	15	1	15
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	5	5
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			**60**
ECTS Credit of the Course			**2**

Contribution of Learning Outcomes to Programme Outcomes
bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-1053	Information and Communication Technology				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
1	MK-1053	Information and Communication Technology	2	2	4

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
This course aims at teaching the competencies on how to improve itself using computational facilities.
Teaching Methods and Techniques:
Information and self-improvement
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Ömer Faruk GÜRBÜZ
Assistants:

Recommended or Required Reading

Resources

Bilgi ve İletişimTeknolojisi,Orhan Altınbaşak-Abdurrahman Taşbaşı,Altaş Yayıncılık,İstanbul,2006.

Course Category

Mathmatics and Basic Sciences	:	10	**Education**	:	30
Engineering	:	10	**Science**	:	10
Engineering Design	:	10	**Health**	:	10
Social Sciences	:	10	**Field**	:	10

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Internet and Internet Browser		
2	E-mail		
3	News Groups / Forums		
4	Web-Based Learning		
5	Personal Web Site Preparation		
6	Electronic Commerce		
7	Resume with Word Processing Program		
8	Internet and Career		
9	Preparation for a job interview		
10	Spreadsheet		
11	Formulas and Functions		
12	Graphics		
13	Prepare a presentation		
14	Prepare promotional material		

Course Learning Outcomes

No	Learning Outcomes
C01	Communicate on the Internet.
C02	To apply for jobs on the Internet.
C03	Edit numeric data.
C04	Ready to prepare promotional material with the template.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**%100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	7	2	14
Mid-terms	1	1	1
Practice	14	2	28
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			**114**
ECTS Credit of the Course			**4**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

D0000129	French I				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
1	D0000129	French I	3	3	3

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Elective
Objectives of the Course:

Teaching Methods and Techniques:

Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
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Assistants:

Recommended or Required Reading

Resources

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria		
In-Term Studies	**Quantity**	**Percentage**
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		**%0**

ECTS Allocated Based on Student Workload			
Activities	**Quantity**	**Duration**	**Total Work Load**
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			**0**
ECTS Credit of the Course			**0**

Contribution of Learning Outcomes to Programme Outcomes
bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

D0000140	English I				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
1	D0000140	English I	3	3	3

Mode of Delivery:
Face to Face
Language of Instruction:
English
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Elective
Objectives of the Course:
The objective of this course is to be able to bring the students to the A2 Level in terms of CEF.
Teaching Methods and Techniques:
Compulsory Foreign Language Courses (English)
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor H.Tüzün Paçcı
Assistants:

Recommended or Required Reading

Resources Essential Grammar in Use by Raymond Murphy (CUP),New Headway Elementary (4th Edition),English Grammar in Use by Raymond Murhpy
New Headway Elementary(Fifth Edition) (Oxford University Press) + Student's Book + Workbook + iTools (Digital Teaching Res

Course Category

Mathmatics and Basic Sciences	:	**Education**	: 40
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	: 60	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	verb to be, subject pronouns, possessive adjectives, possessive 's		
2	personal information, introducing yourself, the family words		
3	greetings in everyday situations, expressions for short conversations in everyday situations		
4	The Simple Present Tense		
5	Adverbs of frequency , Object Pronouns		
6	Noun Plurals, Telling the time		
7	have got / has got		
8	Linking words (and, so, but, because)		
9	There is / are , prepositions (in,on,under, next to)		
10	Adjectives of quantity (some, any, alot of, lots of, many, much)		
11	Demonstrative Adjectives + PronounsAdjectives for good & bad, adverb+ adjective		
12	NumberS & Prices		
13	Can / Can't		
14	was/were/could , The Simple Past Tense		

Course Learning Outcomes

No	Learning Outcomes
C01	To understand and use basic grammatical structures in English
C02	Recognizing and using social expressions.
C03	Understanding that you hear in the target language.
C04	Ask questions and answer related to fundamental issues.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**%100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			**58**
ECTS Credit of the Course			**2**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-1005	Materials Technology				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
1	MK-1005	Materials Technology	4	4	4

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
1-To give an understanding on the importance of materials technology for engineering applications 2-To teach the structure and properties of materials and to make the students understand the strong relations between them 3-To develop an understanding of the differences between engineering materials through the application of laboratory experiments to determine their mechanical behavior 4-To introduce students the failure modes and the use of non-destructive testing techniques of engineering materials 5-To give an understanding on the material selection and design using material knowledge
Teaching Methods and Techniques:
Classification of engineering materials, Atomic structures of materials, Crystal structures and imperfections, Mechanical properties of materials, Failure of materials, Phase diagrams and solidifications, Types and use of steel and cast iron, Heat treatment of metals and alloys, Non-ferrous metals and alloys and their use in engineering applications, Non-destructive testing of materials.
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Lütfullah DAĞKURS
Assistants:

Recommended or Required Reading

Resources

Malzeme Bilgisi Temel Ders Kitabı,Y.Saip Serfiçeli,Milli Eğitim Basımevi,2000.

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Introduction to Engineering Materials: Atomic structure and bonding		
2	Crystal structures, crystal imperfection		
3	Mechanical properties of materials: tensile test, elastic and plastic deformation, hardness		
4	Mechanical properties of materials: wear, fatique, creep and hardness		
5	Phase diagrams and solidification		
6	Phase diagrams		
7	Fe-Fe3C phase diagram		
8	Types and use of steels. Designations of steels.		
9	Types and use of cast irons. Designations of cast irons.		
10	Heat treatment metals and alloys. Annealing, spheroidizing, normalizing, quenching and tempering treatments		
11	TTT Diagrams, hardenability of steels. Isothermal heat treatments, homogenizing		
12	Stress relief annealing. Surface hardening of steels		
13	Non-ferrous metals and alloys. Aluminum and its alloys, Copper, magnesium, nickel and titanium alloys		
14	Non-destructive testing		

Course Learning Outcomes

No	Learning Outcomes
C01	Materials, structure, crystallization, and phase diagrams of alloy, analyze.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria		
In-Term Studies	**Quantity**	**Percentage**
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload			
Activities	**Quantity**	**Duration**	**Total Work Load**
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	3	42
Assignments	1	1	1
Presentation	1	1	1
Mid-terms	1	1	1
Practice	7	3	21
Laboratory	7	3	21
Project	0	0	0
Final examination	1	1	1
Total Work Load			**144**
ECTS Credit of the Course			**5**

Contribution of Learning Outcomes to Programme Outcomes
bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-1001	Mathematics I				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
1	MK-1001	Mathematics I	3	3	4

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
With this course, students are intended to gain the necessary competence to apply mathematical knowledge and skills to work for the profession.
Teaching Methods and Techniques:
First of all, courses aims to provide students mathematical knowledge necessary to his profession. Courses are conducted in a student-centered
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Çiğdem ÖZTAŞ
Assistants:

Recommended or Required Reading

Resources

Genel Matematik, Doç. Dr. Hüseyin Yıldırım, AKÜ Yayınları, 1998. Temel Matematik, Prof. Dr. Mustafa Balcı, Balcı yayınları, 2005.

1 Arasınav ve 1 Yarıyıl Sonu Sınavı

Course Category

Mathmatics and Basic Sciences	: 90	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	: 10

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Algebra		
2	Polynomials and Operations in polynomials		
3	Ratio and Proportion		
4	Equations ist degre		
5	Inequalities		
6	Total and multiplication symbol		
7	Series		
8	Series		
9	Geometry		
10	Coordinate systems		
11	Trigonometry		
12	Trigonometrc functions		
13	Functions		
14	Functions and graphs		

Course Learning Outcomes

No	Learning Outcomes
C01	Recognizes the set concept and do applications about set
C02	Recognize the number systems and do operations with numbers
C03	Recognizes the exponential and radical number and do applications
C04	Recognizes the ratio and proportion concepts and do applications about it
C05	Recognizes the equations and equalities concepts and do applications
C06	Recognizes the function concept and types of functions and do applications
C07	Learns graphing of functions
C08	Learns absolute value function and exponential function and do applications about them
C09	Learn the units of measure.
C10	Learns the geometry concept and do applications
C11	Learns the geometry concept and do applications
C12	Learns the trigonometry concept and do applications

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria		
In-Term Studies	**Quantity**	**Percentage**
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload			
Activities	**Quantity**	**Duration**	**Total Work Load**
Course Duration	14	3	42
Hours for off-the-c.r.stud	14	5	70
Assignments	10	4	40
Presentation	0	0	0
Mid-terms	1	14	14
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	14	14
Total Work Load			**180**
ECTS Credit of the Course			**6**

Contribution of Learning Outcomes to Programme Outcomes
bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-1047		Vocational Physics			
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
1	MK-1047	Vocational Physics	4	4	4

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
Material,mechanic,static, dynamic, flow,electric and magnatic,analsys,comment on draw.
Teaching Methods and Techniques:
Basic Principles of Physics
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Yunus KÜLTÜREL
Assistants:

Recommended or Required Reading

Resources

Modern Üniversite Fiziği,Richards-Sears-Wehr-zemansky,Çağlayan Kitapevi,1982

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Unit systems.		
2	Vectors, force and torque.		
3	Balance and equilibrium conditions.		
4	Finding the center of gravity		
5	Laws of motion.		
6	Laws of motion.		
7	Work, power, energy.		
8	Work, power, energy.		
9	Heat and temperature.		
10	Heat and temperature.		
11	Heat and temperature.		
12	Basic fluid properties, flow types and flow rate calculation.		
13	Channel and pipe flow.		
14	Pressure Drop.		

Course Learning Outcomes

No	Learning Outcomes
C01	Knows the basic physical quantities and units, conversions will
C02	Work, power and energy concepts bağıntılarla knows and expresses them.
C03	Distinguishes between static and dynamic systems.
C04	Make calculations relating to the thermal and fluid systems

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	3	42
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	7	1	7
Laboratory	0	0	0
Project	7	1	7
Final examination	1	1	1
Total Work Load			**114**
ECTS Credit of the Course			**4**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-1051	Strength of Materials				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
1	MK-1051	Strength of Materials	2	2	3

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
In this course, it is aimed to gain competencies in the following; to understand the basic principles of strength of materials encountered in the design, to use the principles of strength of materials in order that the sizing and controlling computations of machine elements.
Teaching Methods and Techniques:
Calculation of Tensile strength of the types and objects
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Yunus KÜLTÜREL
Assistants:

Recommended or Required Reading

Resources

Mühendisler için Mekanik, Statik ve Mukavemet,Prof. Dr.Mehmet H. Omurtag,Nobel Yayın Dağıtım,İstanbul,2007.

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Introduction, basic concepts and principles, mechanical properties		
2	Introduction, basic concepts and principles, mechanical properties		
3	Introduction, basic concepts and principles, mechanical properties		
4	Introduction, basic concepts and principles, mechanical properties		
5	Transformation of plane stress; Principal stresses, Maximum shearing stress and Mohr's circle		
6	Transformation of plane stress; Principal stresses, Maximum shearing stress and Mohr's circle		
7	Eğilme momentine maruz elemanlar.		
8	Torsional loads on shafts, Shear stresses-strains and deformations		
9	Torsional loads on shafts, Shear stresses-strains and deformations		
10	Pure Bending; bending stresses due to pure bending		
11	Bending stresses of members made of several materials due to bending		
12	Bending stresses of members made of several materials due to bending		
13	Stresses under combined loadings		
14	Stresses under combined loadings		

Course Learning Outcomes

No	Learning Outcomes
C01	The sizing and controlling computations of the machine elements subjected to a axial loading, torsional and bending moment
C02	The sizing and controlling computations of the machine elements subjected to a bending moment
C03	The sizing and controlling computations of the machine elements subjected to torsional moment
C04	The sizing and controlling computations of the machine elements under combined loadings
C05	Knowing the vertical resize elements installed.
C06	Resize elements under buckling loads.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	7	3	21
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	7	3	21
Project	0	0	0
Final examination	1	1	1
Total Work Load			**86**
ECTS Credit of the Course			**3**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-1003	Technical Drawing				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
1	MK-1003	Technical Drawing	4	4	4

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
With this course, it is aimed to teach an ability to draw and read the technical drawings.
Teaching Methods and Techniques:
To be capable of geometrical drawing, to take off appearance, dimensioning, to take cross-sectional, to use surface quality marks and to determine the limits of tolerance.
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Yunus KÜLTÜREL
Assistants:

Recommended or Required Reading

Resources

Teknik Resim I, Kemal Türkdemir,Bilal Ofset,Denizli,2006.Teknik Resim II,Kemal Türkdemir- Kudret Kandemir-Aysun Akbıyık,Bilal Ofset,Denizli,2006.A4

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	The place and importance of technical drawing in the industry, drawing tools, writing and numbers, lines and types.		
2	Geometrical drawing.		
3	The concept of appearance and the definition and classification of the projection concept.		
4	Types of projection plane.		
5	Dimensioning		
6	The definition and importance of the perspective.		
7	Single and Two Views of the perspective.		
8	Three Views with the perspective of the parts.		
9	The perspective of the circle.		
10	Cross-section and the principles of the scanning lines		
11	Cross-Section applications.		
12	Tolerance.		
13	Tolerance and surface quality marks.		
14	Surface quality marks.		

Course Learning Outcomes

No	Learning Outcomes
C01	Teknik resim çizmek ve okumak
C02	Mesleki resim çizmek ve okumak

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria		
In-Term Studies	**Quantity**	**Percentage**
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload			
Activities	**Quantity**	**Duration**	**Total Work Load**
Course Duration	14	4	56
Hours for off-the-c.r.stud	10	1	10
Assignments	0	0	0
Presentation	7	1	7
Mid-terms	1	1	1
Practice	7	1	7
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			**82**
ECTS Credit of the Course			**3**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

D0000194	Turkish Language I				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
1	D0000194	Turkish Language I	2	2	2

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
To make studens become familiar with the correct, beautiful and efficient use of the Turkish language to maket hem base the writen and spoken intercourse of the language on strong principals to maket hem gain their skills in correspondence, presentatations and ezplanations succesfully in their business life to make them become intellectual individuals who read, think, inquire and bring solutions.
Teaching Methods and Techniques:
To improve students' love and understanding of mother tongue who are studying in various departments in accordance with the constantly progressing conditions of the age; to emphasize the connection between language and thought; to enlighten individuals who are scientifically productive, creative, able to use their mother tongue accurately and equipped with contemporary knowledge, in language and literature history.
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Asist Prof.Dr. YAVUZ GÜNEŞ
Assistants:

Recommended or Required Reading

Resources

Course Category

Mathmatics and Basic Sciences	:		**Education**	:	
Engineering	:		**Science**	:	
Engineering Design	:		**Health**	:	
Social Sciences	:	100	**Field**	:	

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	marks of punctution. (point, comma, semicolon, double point, interjection)		
2	marks of punctution. (inverted commas, paranthesis)		
3	The rules of orthography. (Writing of capitals and numbers and compounds)		
4	The rules of orthography. (writing of idioms, dieresis, quotation words and foreign proper nouns)		
5	The rules of orthography. (The writing of abbreviation and some additions.)		
6	composition. (definition, aim, being succesful in composition)		
7	The methods of composition. (The constitutetion of assistant reflection and main reflection.)		
8	The methods of composition. (The constitutetion of paragraph, the methods of progress of reflection in paragraph)		
9	The properties of expression		
10	Failure to expression properly.		
11	The forms of expression. (collecting homeworks)		
12	varieties of expression. (oral expression)		
13	varieties of expression. (written expression- letter, petition)		
14	varieties of expression.(written expression- story, fiction, theatre, verse)		

Course Learning Outcomes

No	Learning Outcomes
C01	1. "Language" general knowledge about. This is the main title opinion on the phenomenon of language and languages??, language of the reasons for the emergence of the agreement, the issue of
C02	2. Understands the rules of writing on a topic, write activity by assimilating the basic information for it to become successful in making
C03	3. Language is accurate and effective to use it in the infrastructure all the richness comprehend, a rich culture and imagination with creative requirements of being to read texts comprehend, beaut
C04	4. Communication with public and private institutions provide accurate and effective, short equity requests, but being able to fully express, petition writing, report preparation, the rules of the unde
C05	5. Our language is Turkish comprehend its place among the world`s languages??, proud, rich and beautiful who are able to use the language.
C06	6. Will read a variety of literary genres with text information, experience, life experience and perspective on life changing moments approaching the tolerance of different opinions.
C07	7. Academic listening to a conversation, to ask questions, learn to make the necessary explanations, we found that intra-community behavior is how it should be.
C08	8. To obtain resources, reading, listening, seeing, hiking, develop their talents by making methods, intellectuals, people learn to be problem solvers.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria		
In-Term Studies	**Quantity**	**Percentage**
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload			
Activities	**Quantity**	**Duration**	**Total Work Load**
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	2	3	6
Presentation	2	5	10
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			**60**
ECTS Credit of the Course			**2**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		**%0**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			**0**
ECTS Credit of the Course			**0**

Contribution of Learning Outcomes to Programme Outcomes

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

D0000104	GERMAN II				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
2	D0000104	GERMAN II	3	3	3

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Elective
Objectives of the Course:
The course aims to improve the core knowledge acquired in German Language -I
Teaching Methods and Techniques:
Basic grammar rules, daily conversations, newspapers and magazines, business writing
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:

Assistants:

Recommended or Required Reading

Resources

. Aufderstraße, Hartmut; Themen aktuell 2 (Kursbuch und Arbeitsbuch), Max Hueber Verlag, 2009. 2. Niebisch, Daniela; Schritte international A2.1/A2.

Course Category

Mathmatics and Basic Sciences	:	**Education**	:	
Engineering	:	**Science**	:	
Engineering Design	:	**Health**	:	
Social Sciences	:	**Field**	:	100

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Physical Appearance and Personality		
2	School, Career Training, Job		
3	Studying the details of "School, Career Training, Job" subject		
4	Entertainment and TV		
5	Studying the details of "Entertainment and TV" subject		
6	Industry, Business, Business Organization		
7	Studying the details of "Industry, Business, Business Organization" subject		
8	Family and Personal Relationships		
9	Nature and Environment		
10	The German Abroad and The Foreigners in Germany		
11	Studying the details of "The German Abroad and the Foreigners in German" subject		
12	News, Politics and History		
13	Studying the details of "News, Politics and History" subject		
14	Elderly People		

Course Learning Outcomes

No	Learning Outcomes
C01	They can describe other people.
C02	They can match headlines with related columns in a newspaper.
C03	They can draw a conclusion from a tv show.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	14	4	56
Assignments	14	3	42
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			**142**
ECTS Credit of the Course			**5**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

D0000107	Ataturk's Principles and History of Turkish Revolution II				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
2	D0000107	Ataturk's Principles and History of Turkish Revolution II	2	2	2

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
To understand Ataturk s reforms and how basic principles of the republic came into existence in Republic of Turkey establishment period. To help Turkish youth in the way of being unified individuals as a nation and becoming effective in the contemporary world.
Teaching Methods and Techniques:
The last periods of the War of Independence. Treaties that causes the establishment of Republic of Turkey. Ataturk s principles which determine the features of Republic of Turkey and the revolutions which strenghten these principles
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Specialist Dr. İzzet Bahri ATEŞLİSpecialist Dr. Ayşe ERYAMANSpecialist Dr. Sadet ALTAYSpecialist Dr. Sabri ZENGİNSpecialist Dr. Adnan GELMEZ
Assistants:

Recommended or Required Reading

Resources 4- Komisyon, Atatürkçü Düşünce, Ankara 1992, AAM yay.,3- A. Afetinan, M. Kemal Atatürk'ten Yazdıklarım, İstanbul 1971, MEB yay.,7- Selahattin Tans
Sabri ZENGİN, Atatürk İlkeleri ve İnkılâp Tarihi, 2. Baskı, Taşhan Kitap, Tokat 2016.

Course Category

Mathmatics and Basic Sciences	:		**Education**	:	
Engineering	:		**Science**	:	
Engineering Design	:		**Health**	:	
Social Sciences	:	100	**Field**	:	

Weekly Detailed Course Contents

Week	Topics		Study Materials	Materials
1	Of national struggle	Rebellions against the Parliament, The Treaty of Sevres		
2	Of national struggle	National War Fronts: The west facade, The South facade, The east facade.		
3	Of national struggle	Treaties which halted fighting: The Armistice of Mudanya, The Treaty of Lausanne.		
4	Establishment of the Republic of Turkey	Abolition of the sultanate, declaration of the republic, abolition of the caliphat		
5	The democratization of the republic	People's Party, Progressive Republican Party, Free Republican Party, Democratic Pa		
6	Secularizing of the republic	Secularizing of the state management. Secularizing of the constitution. Secularizing of the edu		
7	The principle of nationalism	National government, The national history (Turkish Historical Society), National language (Tur		
8	Midterm Exam			
9	The principle of statism	Economics Congress of Turkey, national economy, promotion of private enterprise and develo		
10	Reactions to the Reforms	The rebellion of Seyh Sait, assassination attempt on Ataturk in Izmir, The Menemen event.		
11	The constitutions of Turkish History	1876, 1909, 1921, 1924, 1960, 1982 Constitutions and their feautres.		
12	Revolutions in the field of education	Tevhid-i Tedrisat Kanunu (The Law of Teaching Unification), Alphabet revolution, H		
13	Social Reforms	The hat and attire revolution, The abolition of dervish lodges, angles, tombs and religious orders, surnam		
14	Turkish foreign policy	Turkey's strategic importance, Liberation War era foreign policy, Turkish foreign policy of the Atatürl		
15	Turkish foreign policy	Turkish foreign policy after Atatürk.		

Course Learning Outcomes

No	Learning Outcomes
C01	Determines that the establishment of agreements with Turkey and to analyze international law.
C02	That the reforms of Ataturk founded modern Turkey in order to bring the level of contemporary civilizations, the basic principles (Principles) to explain.
C03	Youth in Turkey's national, democratic, secular, social and individual values depending on the organization to be based on the principles of modern law.
C04	Youth who follow developments in the world, state and nation in the contemporary world that individuals can apply to be effective, needs to be done.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria		
In-Term Studies	**Quantity**	**Percentage**
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload			
Activities	**Quantity**	**Duration**	**Total Work Load**
Course Duration	15	2	30
Hours for off-the-c.r.stud	15	1	15
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	5	5
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			**60**
ECTS Credit of the Course			**2**

Contribution of Learning Outcomes to Programme Outcomes
bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-1008	Hydraulics and Pneumatic				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
2	MK-1008	Hydraulics and Pneumatic	4	4	5

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
In this course, it is aimed to gain abilty related to ocuring circuit with the hydraulic and pneumatic components, doing the basic maintenance and repair of the machines.
Teaching Methods and Techniques:
Transactions related to hydraulic and pneumatic systems, based on the loom to make the repair and maintenance
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Bekir DOĞAN
Assistants:

Recommended or Required Reading

Resources

Hidrolik ve Pnomatik,İsmail Karacan,Bizim Büro Basımevi,Ankara,1989.

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Rasps, cutting tool types, measurement, control and marking tool, cutting principles and variety		
2	Cutting tools suitable to materials, pedestal grinding machines, drill bit sharpening		
3	Drill types, drill bit angles, material properties of drills and materials to be drilled, procedure order of drilling, calculating sp		
4	Reamer, tap and die types, screw pitch gauge, process order of screw threading using tap and die		
5	Lathe machines types, parts and lathe operations, lathe chucks, steady rests, and cutting tools		
6	Lathe cutting tools, types, tailstock drill bit, calculating cutting speed and feed rate and face-plain turning operations		
7	Surface roughness, types, angle and sharpening of grooving tools, measuring tools		
8	Taper turning operations, calculating taper, taper gauges		
9	Drilling machine type, step drilling principles, knurling types		
10	Type of lead screw, screw gauge, screw cutting tools, screw thread into blind hole		
11	Machine reamer types, reamering operation techniques on lathes		
12	Milling machines, plain milling cutters, milling cutter holders, calculating depth of cut and feed rate, conventional and climb		
13	Groove milling cutter types,safety precautions in groove milling,drilling and boring on a horizontal milling machine,calculatii		
14	Grinding machines,grinding wheels and properties,grinding wheels sharpening		

Course Learning Outcomes

No	Learning Outcomes
C01	To gain an abilty related to ocuring circuit with the hydraulic components
C02	To gain an abilty related to ocuring circuit with the pneumatic components
C03	To do basic maintenance and repair of the loom

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria		
In-Term Studies	**Quantity**	**Percentage**
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload			
Activities	**Quantity**	**Duration**	**Total Work Load**
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	10	1	10
Mid-terms	1	1	1
Practice	10	1	10
Laboratory	8	8	64
Project	0	0	0
Final examination	1	1	1
Total Work Load			**170**
ECTS Credit of the Course			**6**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-1052	Communication				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
2	MK-1052	Communication	2	2	2

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Elective
Objectives of the Course:
To enable the students to comprehend communication and its importance, the ways to establish communication, complications and problems, types and models of communication, the meaning and functions of organizational communication and the features of effective communication.
Teaching Methods and Techniques:
The basic elements of communication, the functioning of the communication, communication skills within the groups and Organizations, preventing or disrupting communication constraints, arising from the difficulties of language and expression differences in status and for the elimination of these studies, written, the importance verbal and nonverbal communication,and used techniques
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Sedat ŞEN
Assistants:

Recommended or Required Reading

Resources

İletişim Genel ve Örgütsel Boyutuyla,Hasan Tutar,M.Kemal Yılmaz

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	The concept of communication and its importance		
2	Communication process		
3	Verbal Communication		
4	Written Communication		
5	Non-verbal Communication (Body Language)		
6	Constructive and destructive complications of communication		
7	Constructive and destructive complications of communication		
8	Overcoming communication complications and effective communication		
9	Organizational Communication		
10	Operational Models of Organizational Communication		
11	Formal and Informal Communication		
12	Information technologies and Communication		
13	Mass Communication		
14	Communication in Professional Life		

Course Learning Outcomes

No	Learning Outcomes
C01	To have the knowledge about the fundamental concepts related with communication
C02	To have the knowledge about the functions, aim and implementation of communication
C03	To comprehend and to be able to apply the types of communication
C04	To be able to understand and apply the importance of listening in communication
C05	To be able to comprehend the communication complications and the ability to solve such complications
C06	To be able to develop verbal, non-verbal (body language), written, visual and electronic communication skills
C07	To have the knowledge about the fundamental concepts related with organizational communication
C08	To have knowledge about the types and operation of organizational communication.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	5	1	5
Mid-terms	1	1	1
Practice	5	1	5
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			**54**
ECTS Credit of the Course			**2**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

D0000141	English II				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
2	D0000141	English II	3	3	3

Mode of Delivery:
Face to Face
Language of Instruction:
English
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Elective
Objectives of the Course:
This course aims to provide the students understand and use familiar everyday expressions and very basic phrases aimed at the satisfaction of needs of a concrete type; introduce him and others and ask and answer questions about personal details such as where he lives, people he knows and things he has. interact in a simple way provided the other person talks slowly.
Teaching Methods and Techniques:
This course includes grammar, spelling and pronunciation, vocabulary, listening and speaking skills.
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Burçak TÜRK
Assistants:

Recommended or Required Reading

Resources UZEM (disatance training) Class Notes,UZEM (distance training) Course Videos,English For Life Beginner Level English For life Course Book
Ders kitabı, Uzaktan Eğitim Ders Videoları, Uzaktan Eğitim Ders Notları

Course Category

Mathmatics and Basic Sciences	:		**Education**	:	
Engineering	:		**Science**	:	
Engineering Design	:		**Health**	:	
Social Sciences	:	100	**Field**	:	

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Introductions and numbers, Indefinite articles, this, that, teaching classroom vocabulary		
2	Teaching the alphabet and spelling. Family members.		
3	Possessive adjectivesAsking names Saying hello and goodbye.		
4	Numbers, countries, to be statements, saying sorry.		
5	Numbers, to be :questions, telling the time, spelling word.		
6	Telling the time, things people carry, prepositions, singular and plural names.		
7	Free time activities, offering drink, food and plural endings.		
8	Present simple: questions life styles Present simple: statements.		
9	Midterm		
10	Free time activities.		
11	Days and times life styles.		
12	Simple present tense questions.		
13	Present simple: why-questions, lifestyles.		
14	Teaching Daily activities, adverbial place days and times.		
15	Present simple :the third singularEveryday expressions, negative statements.		

Course Learning Outcomes

No	Learning Outcomes
C01	Students will be able to use simple daily life expressions.
C02	to express their problems with simple terms.
C03	to express their problems with simple terms.
C04	to act out the dialoques related to greetings and saying goodbye in the target language.
C05	to use the social expressions in the target language.
C06	to use the statements and expressions related to asking and telling the time, asking for a ticket, asking for the prices in target language.
C07	to spell the words, tell his/her e-mail address or phone number, open and end the conversations on the phone in target language.
C08	to ask for and tell the directions in target language.
C09	to understand and tell the months, years, birthdays, and ordinal numbers in target language.
C10	to understand and use the expressions that show inetrest while having a dialogue in target language.
C11	to use appropriately the expressions related to making offers and accepting/refusing offers in target language.
C12	to ask someone's problems and rspond accordingly in target language.
C13	to recognize the signs that are universal in target language.
C14	to understand and use the expressions related to thanking, wishing good luck, and expressing worry in target language.
C15	to understand and tell the everyday problems in target language.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria		
In-Term Studies	**Quantity**	**Percentage**
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload			
Activities	**Quantity**	**Duration**	**Total Work Load**
Course Duration	14	3	42
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	30	30
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	30	30
Total Work Load			**102**
ECTS Credit of the Course			**3**

Contribution of Learning Outcomes to Programme Outcomes
bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-1002	Machine Elements				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
2	MK-1002	Machine Elements	3	3	5

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
In this course, it is aimed to classify the machine elements according to the characteristics, to resize the machine elements according to the fundamental design and analysis rules. to select and attach the appropriate machine elements and to find solution to the problems/failure of the machine elements.
Teaching Methods and Techniques:
Removable and movable fasteners, shafts and axles and bearing elements to resize and control accounts.
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Bekir DOĞAN
Assistants:

Recommended or Required Reading

Resources

Makina Elemanları Cilt II,Prof.Dr. Mustafa Akkurt,Birsen Yayınevi,İstanbul,1986

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Removable fasteners		
2	Removable fasteners		
3	Removable fasteners		
4	Removable fasteners		
5	Removable fasteners		
6	Removable fasteners		
7	Removable fasteners		
8	Removable fasteners		
9	Removable fasteners		
10	Shafts and axles		
11	Shafts and axles		
12	Shafts and axles		
13	Bearings		
14	Bearings		

Course Learning Outcomes

No	Learning Outcomes
C01	Control account and size for removable fasteners
C02	Control account and size for movable fasteners
C03	Sizing and control account for the shaft and axles
C04	the size and control account for bearing

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**%100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	7	1	7
Assignments	0	0	0
Presentation	7	1	7
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	7	1	7
Final examination	1	1	1
Total Work Load			**65**
ECTS Credit of the Course			**2**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-1042	Machine Technical Drawing				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
2	MK-1042	Machine Technical Drawing	2	2	2

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
With this course, it is aimed to teach an ability to draw and read the professional technical drawings.
Teaching Methods and Techniques:
Professional Technical Drawing
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor PARVİZ ALİYEV
Assistants:

Recommended or Required Reading

Resources

Teknik Resim I, Kemal Türkdemir,Bilal Ofset,Denizli,2006.Teknik Resim II,Kemal Türkdemir- Kudret Kandemir-Aysun Akbıyık,Bilal Ofset,Denizli,2006.A4

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Removable fasteners		
2	Undetachable fasteners		
3	Secure binding elements		
4	Motion Components		
5	Power Transmission Components		
6	The concepts of assembly drawing and detail drawing		
7	To draw assembly drawing and detail drawing		
8	Assembly and assembly sequence		
9	Applications of assembly drawing and detail drawing		
10	Applications of assembly drawing and detail drawing		
11	Applications of assembly drawing and detail drawing		
12	Applications of assembly drawing and detail drawing		
13	Assembly and detailed picture letterhead		
14	Sketch drawing		

Course Learning Outcomes

No	Learning Outcomes
C01	Draw a picture and read professional

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**%100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	7	1	7
Assignments	7	1	7
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	7	1	7
Project	7	1	7
Final examination	1	1	1
Total Work Load			**58**
ECTS Credit of the Course			**2**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		**%0**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			**0**
ECTS Credit of the Course			**0**

Contribution of Learning Outcomes to Programme Outcomes

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-1006	Fundamentals of Manufacturing Process				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
2	MK-1006	Fundamentals of Manufacturing Process	4	4	5

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
It is aimed at getting the students to acquire proficiency at basic manufacturing procedures by using hand tools, the drilling, milling and grinding machines.
Teaching Methods and Techniques:
In this course, the student can make basic operations by using hand tools, can open a hole an drilling machine and can do the lathing, milling and grinding operations.
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Bekir DOĞAN
Assistants:

Recommended or Required Reading

Resources

İmalat İşlemleri,ibrahim Nebiler,Emek Matbaacılık-Yayıncılık,Manisa,2005.

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Rasps, cutting tool types, measurement, control and marking tool, cutting principles and variety		
2	Cutting tools suitable to materials, pedestal grinding machines, drill bit sharpening		
3	Drill types, drill bit angles, material properties of drills and materials to be drilled, procedure order of drilling, calculating sp		
4	Reamer, tap and die types, screw pitch gauge, process order of screw threading using tap and die		
5	Lathe machines types, parts and lathe operations, lathe chucks, steady rests, and cutting tools		
6	Lathe cutting tools, types, tailstock drill bit, calculating cutting speed and feed rate and face-plain turning operations		
7	Surface roughness, types, angle and sharpening of grooving tools, measuring tools		
8	Taper turning operations, calculating taper, taper gauges		
9	Drilling machine type, step drilling principles, knurling types		
10	Type of lead screw, screw gauge, screw cutting tools, screw thread into blind hole		
11	Machine reamer types, reamering operation techniques on lathes		
12	Milling machines, plain milling cutters, milling cutter holders, calculating depth of cut and feed rate, conventional and climb		
13	Groove milling cutter types,safety precautions in groove milling,drilling and boring on a horizontal milling machine,calculatii		
14	Grinding machines,grinding wheels and properties,grinding wheels sharpening		

Course Learning Outcomes

No	Learning Outcomes
C01	Using basic hand tools
C02	Operations of drill machines
C03	Lathe operations
C04	Milling machines operations
C05	Grinding machine operations

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria		
In-Term Studies	**Quantity**	**Percentage**
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload			
Activities	**Quantity**	**Duration**	**Total Work Load**
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	3	42
Assignments	2	20	40
Presentation	2	4	8
Mid-terms	1	1	1
Practice	7	7	49
Laboratory	14	1	14
Project	7	7	49
Final examination	1	1	1
Total Work Load			**260**
ECTS Credit of the Course			**9**

Contribution of Learning Outcomes to Programme Outcomes
bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-1050	Thermodynamics				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
2	MK-1050	Thermodynamics	2	2	2

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
With this course, it is aimed to teach the basic principles of classical thermodynamics, to provide comprehension and solving of engineering problems in thermodynamics, to teach to use the first and second law of
Teaching Methods and Techniques:
Introduce to Thermodynamics, The first and second law, Analysis of the system and control volume, The behaviour and properties of the pure substances, The applications to the thermodynamics systems.
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Bekir DOĞAN
Assistants:

Recommended or Required Reading

Resources

Course Category

Mathmatics and Basic Sciences	:		**Education**	:	
Engineering	:	100	**Science**	:	
Engineering Design	:		**Health**	:	
Social Sciences	:		**Field**	:	

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Basic concepts (system, environment, change of state, online,), the zeroth law of thermodynamics		
2	Heat and business transformation		
3	Thermodynamic properties of pure substance (property relations, pv, Ts diagrams)		
4	Thermodynamic properties of pure substance (property relations, pv, Ts diagrams)		
5	The ideal gas equation, and phase transitions		
6	Thermodynamics 1 Law		
7	Thermodynamics 2 law		
8	Motor cycles, comparison of cycles		
9	Internal combustion engines work, efficiency, power		
10	Motor performance characteristics		
11	Fuels, physical and chemical properties, combustion, physical analysis, chemical properties, combustion spark ignition engi		
12	Classification of compression ignition engines burning fuels, hydrocarbons, alcohols and their derivatives, the classification		
13	And analysis of end-products of combustion, fuel and combustion-related tables, alternative fuels and combustion		
14	Sources of combustion engines, detonation, fuel evaporation, detonation resistance		

Course Learning Outcomes

No	Learning Outcomes
C01	Use in accordance with terms and concepts of thermodynamics
C02	Stable and unstable system of energy and mass transfer calculations required to make applications perform.
C03	Grasp of reversible and irreversible processes.
C04	Thermodynamic analysis of the various systems, irreversibility, exergy, and use the concepts of efficiency.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	7	1	7
Mid-terms	1	1	1
Practice	7	1	7
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			**58**
ECTS Credit of the Course			**2**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

D0000195	Turkish Language II				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
2	D0000195	Turkish Language II	2	2	2

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
To make studens become familiar with the correct, beautiful and efficient use of the Tuekish language to maket hem base the writen and spoken intercourse of the language on strong principals to maket hem gain their skills in correspondence, presentatations and ezplanations succesfully in their business life to make them become intellectual individuals who read, think, inquire and bring solutions.
Teaching Methods and Techniques:
According to their subjects, reading, listening, writing, presentation, discussion, sampling, question and answer techniques will be used.
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:

Assistants:

Recommended or Required Reading

Resources

Course Category

Mathmatics and Basic Sciences	:		**Education**	:	
Engineering	:		**Science**	:	
Engineering Design	:		**Health**	:	
Social Sciences	:	100	**Field**	:	

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	marks of punctution. (point, comma, semicolon, double point, interjection)		
2	marks of punctution. (inverted commas, paranthesis)		
3	The rules of orthography. (Writing of capitals and numbers and compounds)		
4	The rules of orthography. (writing of idioms, dieresis, quotation words and foreign proper nouns)		
5	The rules of orthography. (The writing of abbreviation and some additions.)		
6	composition. (definition, aim, being succesful in composition)		
7	The methods of composition. (The constitutetion of assistant reflection and main reflection.)		
8	The methods of composition. (The constitutetion of paragraph, the methods of progress of reflection in paragraph)		
9	The properties of expression		
10	Failure to expression properly.		
11	The forms of expression. (collecting homeworks)		
12	varieties of expression. (oral expression)		
13	varieties of expression. (written expression- letter, petition)		
14	varieties of expression.(written expression- story, fiction, theatre, verse)		

Course Learning Outcomes

No	Learning Outcomes
C01	Understands the rules of writing on a topic, improves writing skills.
C02	Oral presentation and communication skills are gained.
C03	Written and oral expression and to communicate accurate and effective use of language is to understand, short equity requests, but being able to fully express, petition writing, report preparation t
C04	Understand that our language is Turkish its place among the world`s languages??.
C05	Using the word in sentences comprehend the wrongs done in establishing the rules of spelling, punctuation, gains the ability to use correct and appropriate.
C06	Apart from textbooks, information texts to be read from a variety of genres, manners, life changing experience and perspective on life, the habit of seeing nice gains different opinions.
C07	Academic listening to a conversation, to ask questions, learn to make the necessary explanations, so how it should be understood that behavior within society and apply.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			**58**
ECTS Credit of the Course			**2**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		**%0**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			**0**
ECTS Credit of the Course			**0**

Contribution of Learning Outcomes to Programme Outcomes

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-2001	Computer Aided Technical Drawing I				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
3	MK-2001	Computer Aided Technical Drawing I	4	4	4

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
With this course, it is aimed to make two dimensional drawing with CAD package program.
Teaching Methods and Techniques:
The realization of two-dimensional drawings of objects computer program.
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Hüseyin BAŞDEMİR
Assistants:

Recommended or Required Reading

Resources

AutoCad 2008,Kadir Gök-Arif Gök,Seçkin Yayıncılık,Ankara,2007.

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	To run the CAD package program.with screen editing and drawing commands.		
2	To make screen settings and drawing setting and to close the CAD package program.		
3	To use coordinate systems and to make technical drawing by using basic drawing commands.		
4	To make technical drawing and to add the text.		
5	To make technical drawing and to add the text.		
6	Using the editing commands.		
7	Modify the properties of drawing elements.		
8	Reproducing of drawing elements.		
9	To adjust the setting of dimensioning		
10	To use the dimensioning commands.		
11	To add the surface quality marks.		
12	To add the tolerances.		
13	To make the data transfers between the CAD packages.		
14	To print the output		

Course Learning Outcomes

No	Learning Outcomes
C01	it is aimed to make two dimensional drawing with CAD package program.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**%100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	7	1	7
Mid-terms	1	1	1
Practice	7	1	7
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			**86**
ECTS Credit of the Course			**3**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-2003	Computer Aided Manufacturing I				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
3	MK-2003	Computer Aided Manufacturing I	4	4	4

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
In this course, it is aimed to gain abilties related to manufacturing in CNC lathe by using CAM package programs.
Teaching Methods and Techniques:
Manufacturing in CNC lathe
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Sedat ŞEN
Assistants:

Recommended or Required Reading

Resources

CNC Teknik,Hamit Arslan,MEB.Devler Kitapları,Saray Matbaacılık,Ankara,2003

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Working to make the screen and drawing settings, the drawing commands and drawings, drawings, models, ready for editi		
2	3D drawing commands and 3D drawings, drawings, models, ready for editing, 3D rendering options Billet (determining the		
3	Reference point detection, identification element on the piece of solid model		
4	Two-dimensional portion of the workpiece transfer process, to appear in the path of the tool, toolholder and cutting tool us		
5	Choosing to use the process, turning your process, rough turning process, sensitive (finish) turning process		
6	Rough channel turning machining, precision turning process, channel, hole drilling, hole machining operation, tooth-drawin		
7	Simulation of tool paths, making the three-dimensional portion of the workpiece transfer process, Feature identification		
8	Set to appear in the path, the cutter and toolholder selection		
9	Choosing to use the process, get the process of turning, rough turning process		
10	Precision (finish) turning process, coarse channel turning machining, precision turning process channel		
11	Machining Processes and Operations (Adding an operation, Turning Operation, Drilling Operation, Grooving Operation, Thr		
12	Generating the NC Code		
13	Settings (User Directories settings, Units settings, Simulation settings, Synchronization settings, Tool settings, Compressed		
14	Settings (User Directories settings, Units settings, Simulation settings, Synchronization settings, Tool settings, Compressed		

Course Learning Outcomes

No	Learning Outcomes
C01	To create tool path by using CAM Package.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	7	1	7
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	7	1	7
Project	0	0	0
Final examination	1	1	1
Total Work Load			**86**
ECTS Credit of the Course			**3**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-2053	Technology of Cnc Lathe				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
3	MK-2053	Technology of Cnc Lathe	4	4	6

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
With this course, it is aimed to gain an abilty related to preparing the CNC lathe to work, writing the programs for CNC lathe and manufacturing by using CNC lathe.
Teaching Methods and Techniques:
CNC Lathe to prepare for the job,To write the program and production.
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Sedat ŞEN
Assistants:

Recommended or Required Reading

Resources

CNC Torna ve Freze Tezgahlarının Proglamlanması (Fanuc), Prof.Mahmut Gülesin

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Properties, parts and operating principles of CNC Lathe		
2	References, Types of control panels and its properties.		
3	Cutting tools and tools holder, relations between cutting tools and workpieces.		
4	Ofset setting of cutting tools and workpieces.		
5	Ofset setting of cutting tools and workpieces.		
6	Principles of Programing the CNC lathe.		
7	Programing the CNC lathe.		
8	Simulation and running the program.		
9	Programing the CNC lathe by using the cycle		
10	Programing the CNC lathe by using the cycle		
11	Subroutine techniques.		
12	Programing the CNC lathe by using the subroutines		
13	Alarm and error codes in the CNC lathe.		
14	Measurement and control		

Course Learning Outcomes

No	Learning Outcomes
C01	Preparing the CNC lathe to work
C02	To write programs for CNC lathe
C03	Manufacturing by using CNC lathe

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	4	56
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	7	3	21
Laboratory	14	1	14
Project	7	3	21
Final examination	1	1	1
Total Work Load			**170**
ECTS Credit of the Course			**6**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-2043	Manufacturing Process I				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
3	MK-2043	Manufacturing Process I	4	4	5

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
It is aimed to give the students proficiencies of translation screw cutting according to its standards by using lathe machine in the manufacturing workshop and, to carry out special turning operations, and cutting spur and helical gear by using milling machine in the given time.
Teaching Methods and Techniques:
Translation screws cutting, carry out special turning procedure, and to cut spur and helical gear
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Sedat ŞEN
Assistants:

Recommended or Required Reading

Resources

İmalat İşlemleri,İbrahim Nebiler,Emek Matbaacılık-Yayıncılık,Manisa,2005Talaş Kaldırma Bilimi ve Teknolojisi CNC Takım Tezgahları ve Üretim Otomasyo

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	The definition and characteristics of square-thread and techniques of square-thread cutting		
2	Square-thread cutting tools, mounting square-thread cutting tools to holder, and points to be considered during square thr		
3	The definition and characteristics of acme-thread and techniques of acme-thread cutting		
4	Acme-thread cutting tools, mounting acme-thread cutting tools to holder, and points to be considered during acme-thread		
5	The definition and characteristics of round-thread and techniques of round-thread cutting		
6	Round-thread tools, mounting round thread cutting tools to holder, and points to be considered during round-thread cuttin		
7	The definition and characteristics of multiple-thread screw and techniques of multiple-thread screw cutting		
8	Multiple-thread screw cutting tools, mounting multiple-thread screw cutting tools to holder, and points to be considered du		
9	The definition, characteristics, types and application areas of mechanical springs, calculation of mechanical spring and mec		
10	The definition of eccentric turning, points to be considered during eccentric turning operation, application areas of eccentri		
11	The definition and types of steady rests, application areas of steady rests, using steady rests on the lathe, points to be con		
12	Special turning operations, types and characteristics of collets, turning using collets, definition and characteristics of jaw ch		
13	The definition and application areas of spur gear, calculations of spur gear, selection of module gear cutter, manufacturing		
14	The definition and application areas of helical gear, manufacturing techniques of helical gear, calculations of helical gear, s		

Course Learning Outcomes

No	Learning Outcomes
C01	Translation screw- cutting
C02	Special turning operations
C03	Spur gear cutting
C04	Helical gear cutting

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	3	42
Assignments	10	1	10
Presentation	7	2	14
Mid-terms	1	1	1
Practice	7	2	14
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			**138**
ECTS Credit of the Course			**5**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-2051	Quality Assurance and Standards				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
3	MK-2051	Quality Assurance and Standards	3	3	3

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Elective
Objectives of the Course:
In this course, quality assurance and standards in business related to the qualifications to teach.
Teaching Methods and Techniques:
Concepts of Quality and Standardization,Application of Quality Standards, Turkish Standards and International Standards ... and so on. issues such as the processing is aimed.
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Hakan ÖZVAR
Assistants:

Recommended or Required Reading

Resources

Meslek YüksekokullarıÇin Kalite Güvencesi ve Standartları,Nihat KÖLÜK-İrfan DİLSİZ-Cafer S. KARTAL,Detay Yayıncılık,Ankara,2006.

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Quality Concept, Standard and Standardization		
2	Standard and Standardization		
3	The importance of the standard manufacturing and service sector, Management quality and standards		
4	Management quality and standards, Environmental standards		
5	Environmental standards, Quality management system models		
6	Quality management system, strategic management models		
7	Strategic management, Government participation		
8	Process management system, Resource management system		
9	Resource management system, EFQM Excellence Model		
10	Production quality control, Inspection and sampling		
11	Inspection and sampling, Total quality control		
12	Total quality control		
13	Control Diagrams		
14	Statistical Distributions		

Course Learning Outcomes

No	Learning Outcomes
C01	Creating a Quality Management System Infrastructure
C02	Application of Quality Standards
C03	Statistical quality control methods to apply

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	3	42
Assignments	0	0	0
Presentation	7	1	7
Mid-terms	1	1	1
Practice	7	1	7
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			**86**
ECTS Credit of the Course			**3**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-2045	Weld Technology				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
3	MK-2045	Weld Technology	2	2	2

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Elective
Objectives of the Course:
In this course, it is aimed to gain abilties related to welding with methods based on melting and welding under protective atmosphere.
Teaching Methods and Techniques:
To make Gas melting, electric arc, gas in the atmosphere (MIG / MAG), and TIG welding
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Parviz Aliyev
Assistants:

Recommended or Required Reading

Resources

Gazaltı Ark Kaynağı Tig-Mig-Mag-,Prof.Dr.Selahattin ANIK, Doç. Dr. Murat VURAL,Gedik Eğitim Vakfı Kaynak Teknolojisi Eğitim, Araştırma ve Muayene E

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Welding based on melting with gas		
2	Welding based on melting with gas		
3	Welding based on melting with gas		
4	Electric arc welding		
5	Electric arc welding		
6	Electric arc welding		
7	MIG/MAG welding		
8	MIG/MAG welding		
9	MIG/MAG welding		
10	MIG/MAG welding		
11	TIG welding		
12	TIG welding		
13	TIG welding		
14	TIG welding		

Course Learning Outcomes

No	Learning Outcomes
C01	To make gas fusion welding
C02	To make electric arc welding
C03	Welding under protective atmosphere.
C04	To make TIG welding

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	7	1	7
Laboratory	7	1	7
Project	0	0	0
Final examination	1	1	1
Total Work Load			**58**
ECTS Credit of the Course			**2**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		**%0**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			**0**
ECTS Credit of the Course			**0**

Contribution of Learning Outcomes to Programme Outcomes

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		**%0**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			**0**
ECTS Credit of the Course			**0**

Contribution of Learning Outcomes to Programme Outcomes

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		**%0**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			**0**
ECTS Credit of the Course			**0**

Contribution of Learning Outcomes to Programme Outcomes

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-2019		SANITARY INSTALLATION			
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
3	MK-2019	SANITARY INSTALLATION	2	2	2

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Elective
Objectives of the Course:
This course is the establishment of the building plumbing, laying of waste water installations, aimed to gain competencies related to the assembly and installation of hot water use fire apparatus.
Teaching Methods and Techniques:
Electives (S)
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Bahattin TÜRKOĞLU
Assistants:

Recommended or Required Reading

Resources

Course Category

Mathmatics and Basic Sciences	:	40	**Education**	:	
Engineering	:	20	**Science**	:	
Engineering Design	:	40	**Health**	:	
Social Sciences	:		**Field**	:	

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Clean water supplies		
2	Leak trial		
3	Domestic waste water installation		
4	Waste water plumbing connection openings		
5	Building waste water systems		
6	Manhole connection of waste water installations		
7	Gas water heater installation		
8	Electric water heater installation		
9	The installation of electric instantaneous water heaters		
10	Pressure tank connection		
11	Fire equipment		
12	Fire tank assembly		
13	Fire cabinet assembly		
14	Fire sprinklers		

Course Learning Outcomes

No	Learning Outcomes
C01	To pave the clean water supply
C02	To lay waste water systems
C03	Make the installation of hot water preparation equipment
C04	Make the fire equipment 1
C05	Make the fire equipment 2

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**%100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	10	10
Total Work Load			**53**
ECTS Credit of the Course			**2**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-2021	RENEWABLE ENERGY SOURCES				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
3	MK-2021	RENEWABLE ENERGY SOURCES	3	3	4

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Elective
Objectives of the Course:
Reducing the energy derived from imported resources to sustainable economic growth in our country to increase domestic renewable energy sources is a must. The geographical position of our country where wind, sunlight , rain, geothermal heat, wave action and in terms of obtaining energy from renewable energy sources such as bio- energy is in an advantageous position. Therefore, it is aimed to raise the awareness of students about these energy types .
Teaching Methods and Techniques:
Renewable energy sources, economic status, solar energy, wind energy , biomass use , geothermal energy , solar cells , wave energy Renewable energy sources, economic status, solar energy, wind energy , biomass use , geothermal energy , solar cells , wave energy Renewable energy sources, economic status, solar energy, wind energy , biomass use , geothermal energy , solar cells , wave energy Renewable energy sources, economic status, solar energy, wind energy , biomass use , geothermal energy , solar cells , wave energy Renewable energy sources, economic status, solar energy, wind energy , biomass use , geothermal energy , solar cells , wave energy
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Dr. Yunus Kültürel
Assistants:

Recommended or Required Reading

Resources

Yenilenebilir Enerji Kaynakları (Nobel Yayın Dağıtım/2008/Yrd. Doç Dr.İsmet AKOVA

Course Category

Mathmatics and Basic Sciences	:	30	**Education**	:	
Engineering	:	40	**Science**	:	
Engineering Design	:	20	**Health**	:	
Social Sciences	:		**Field**	:	10

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	The concept of energy demand and energy		
2	Evaluation and economic situation of renewable energy sources		
3	fossil fuels		
4	solar energy		
5	wind power		
6	geothermal energy		
7	biomass energy		
8	hydro power		
9	wave energy		
10	nuclear energy		
11	hydrogen energy		
12	Photovoltaics		
13	Renewable energy sources in the world and Turkey		
14	Renewable energy sources in the world and Turkey		

Course Learning Outcomes

No	Learning Outcomes
C01	Basic information on renewable energy sources
C02	Impact on environmental pollution
C03	Economic situation
C04	Information about the various renewable energy sources
C05	Renewable energy sources in the world and Turkey

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	0	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%60
Total		**% 100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	1	10	10
Mid-terms	1	10	10
Practice	0	0	0
Laboratory	0	0	0
Project	1	10	10
Final examination	1	20	20
Total Work Load			**106**
ECTS Credit of the Course			**4**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-2056	Reseach Methods and Techniques			
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
4	MK-2056	Reseach Methods and Techniques	2	2	3

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
This course, intended to gain the competency to conduct research.
Teaching Methods and Techniques:
Understanding the basic rules of doing scientific research.
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:

Assistants:

Recommended or Required Reading

Resources

İnternet,Kütüphane

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Selecting Research Topics		
2	Selecting Research Topics		
3	Making Resource Survey		
4	Making Resource Survey		
5	Making Resource Survey		
6	Making Resource Survey		
7	Research Results Evaluation		
8	Research Results Evaluation		
9	Converting in Reporting the Results of Research		
10	Converting in Reporting the Results of Research		
11	Preparation of presentation		
12	Making a Presentation		
13	Making a Presentation		
14	Making a Presentation		

Course Learning Outcomes

No	Learning Outcomes
C01	Research
C02	Prepare a research report
C03	Present research

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**%100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	1	5	5
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	7	1	7
Project	7	1	7
Final examination	1	1	1
Total Work Load			**77**
ECTS Credit of the Course			**3**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-2002	Computer Aided Manufacturing II				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
4	MK-2002	Computer Aided Manufacturing II	4	4	4

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
In this course, it is aimed to make three-dimensional drawing and assembly with CAD package program.
Teaching Methods and Techniques:
Computer-aided three-dimensional drawing and make the assembly, making the official draw
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:

Assistants:

Recommended or Required Reading

Resources

AutoCAD 2008,Kadir Gök-Arif Gök,Seçkin Yayıncılık,Ankara,2007.

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	To run the CAD package program.with screen editing and drawing commands.		
2	To make screen settings and drawing setting and to close the CAD package program.		
3	To use coordinate systems and to make technical drawing by using basic drawing commands.		
4	To make technical drawing and to add the text.		
5	To make technical drawing and to add the text.		
6	Using the editing commands.		
7	Modify the properties of drawing elements.		
8	Reproducing of drawing elements.		
9	To adjust the setting of dimensioning		
10	To use the dimensioning commands.		
11	To add the surface quality marks.		
12	To add the tolerances.		
13	To make the data transfers between the CAD packages.		
14	To print the output		

Course Learning Outcomes

No	Learning Outcomes
C01	To be able to make 3D drawing with CAD package.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**%100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	1	14
Assignments	0	0	0
Presentation	7	1	7
Mid-terms	1	1	1
Practice	7	1	7
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			**86**
ECTS Credit of the Course			**3**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-2004	Computer Aided Manufacturing II				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
4	MK-2004	Computer Aided Manufacturing II	4	4	4

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
In this course, it is aimed to gain abilties related to manufacturing in CNC Milling by using CAM package programs
Teaching Methods and Techniques:
The course is designed to teach the following topics: Translation of the part from CAD sheet to CAM sheet, create a stock, choosing of tool, creating tool paths on milling, derive the NC codes, data transfer to CNC milling, prepare to CNC milling, Operate CNC milling
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Sedat ŞEN
Assistants:

Recommended or Required Reading

Resources

CNC Takım Tezgahlarının Programlanması ve CAD-CAM Sistemleri Mustafa Akkurt Birsen Yayınevi / Mühendislik Dizisi

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Two-dimensional portion of the workpiece transfer process, to appear in the path of Team		
2	Choosing to use the cutter and the toolholder, tool holders and creating cutting edge		
3	Selection process is used, surface milling, coarse and intermediate rough milling, drilling operations		
4	Choosing cutting tool and tool holder, to appear in the path of the tool, defining tool paths on milling		
5	Three-dimensional portion of the workpiece transfer process, the path to appear in the team, choosing to use the cutting t		
6	Selection process is used, surface milling, coarse and intermediate rough milling, drilling operations		
7	Profile milling process, channel milling, helical milling		
8	Precision (finish) milling, precision surface and edge cleaning process, making the simulation of tool paths		
9	Making a 4-axis milling, 4 axis machining indexing, continuous (simultaneous) 4-axis machining, hole drilling		
10	Surface profile wrapping (Wrap), to make rough milling, finish milling, to make the simulation of tool paths		
11	Choosing to use 5-axis machining, rough milling process, the hole drilling, milling profile		
12	Side wall processing (swarf), Precision (finish) milling process simulation tool to make roads		
13	NC codes counter code to derive the derivative (postprocessor) selection, deriving NC code CNC Milling Machine data trans		
14	Prepare to handle parts CNC Milling Machine, CNC milling machine with a machining tool path is generated		

Course Learning Outcomes

No	Learning Outcomes
C01	Use computer technologies in manufacturing.
C02	Prepare CNC milling programming codes.
C03	Operate on CNC milling by CAM programmes.
C04	Apply on CNC milling.
C05	Apply cyles command on CNC milling Programming.
C06	Use basic informations of CAD/CAM programes.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**%100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	1	14
Assignments	7	1	7
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	7	1	7
Project	0	0	0
Final examination	1	1	1
Total Work Load			**86**
ECTS Credit of the Course			**3**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-2008	Technology of Cnc Milling				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
4	MK-2008	Technology of Cnc Milling	4	4	5

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
With this course, it is aimed to gain an abilty related to preparing the CNC milling to work, writing the programs for CNC milling and manufacturing by using CNC milling.
Teaching Methods and Techniques:
CNC Milling workbench to prepare work,To write the program and production.
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Sedat ŞEN
Assistants:

Recommended or Required Reading

Resources

CNC Torna ve Freze Tezgahlarının Proglamlanması (Fanuc) Abdülkadir Güllü, Gökalp Akdoğan, Mahmut Gülesin, Özkan Avcı

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Properties, parts and operating principles of CNC milling.		
2	References, Types of control panels and its properties.		
3	Cutting tools and tools holder, relations between cutting tools and workpieces.		
4	Ofset setting of cutting tools and workpieces.		
5	Principles of Programing the CNC milling		
6	Programing the CNC milling		
7	Programing the CNC milling		
8	Simulation and running the program		
9	Programing the CNC milling by using the cycle		
10	Programing the CNC milling by using the cycle		
11	Subroutine techniques		
12	Programing the CNC milling by using the subroutine		
13	Alarm and error codes in the CNC milling		
14	Measurement and control		

Course Learning Outcomes

No	Learning Outcomes
C01	Preparing the CNC milling to work.
C02	To write programs for CNC milling.
C03	Manufacturing by using CNC milling.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	1	14
Assignments	7	1	7
Presentation	0	0	0
Mid-terms	1	1	1
Practice	7	1	7
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			**86**
ECTS Credit of the Course			**3**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-2020	Heating Systems				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
4	MK-2020	Heating Systems	4	4	4

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Elective
Objectives of the Course:
The students, aimed to gain the competencies needed to establish a central heating system.
Teaching Methods and Techniques:
Heating systems and components
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Bahattin TÜRKOĞLU
Assistants:

Recommended or Required Reading

Resources

TMMOB- Sanayi Kazanları ve Ek Donatım İşletme El Kitabı, Yayın No:110, Kardelen Ofset,Ankara,1996

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Central heating systems, heat loss calculations		
2	Heat loss calculation		
3	Selection of the device, heating the selection, the pump selection, selection of the expansion tank		
4	Plumbing pipe installation, heater installation		
5	Installation of expansion tank		
6	Boilers, Boiler Installation		
7	Boiler control and safety elements, chimneys		
8	The Boiler assembly		
9	The burner assembly		
10	Fuels, Fuel tank mounting		
11	Facilities filling, drainage installation		
12	Testing Facilities, Business-ready to make		
13	Testing Facilities, Business-ready to make		
14	Testing Facilities, Business-ready to make		

Course Learning Outcomes

No	Learning Outcomes
C01	Select the central heating circuit elements
C02	Make the installation of central heating installations.
C03	Make the installation of central boiler system.
C04	Burner systems, assembling
C05	Central heating systems to run

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria		
In-Term Studies	**Quantity**	**Percentage**
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload			
Activities	**Quantity**	**Duration**	**Total Work Load**
Course Duration	14	4	56
Hours for off-the-c.r.stud	14	3	42
Assignments	7	3	21
Presentation	7	3	21
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			**142**
ECTS Credit of the Course			**5**

Contribution of Learning Outcomes to Programme Outcomes
bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-2046		Manufacturing Process II			
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
4	MK-2046	Manufacturing Process II	3	3	4

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
It is aimed to give the students proficiencies of gear cutting according to its standards by using milling machine and, to carry out special grinding operation by using grinding machine in the given time.
Teaching Methods and Techniques:
The course is designed to teach the following topics: rack gear, bevel gear, worm gear, chain gears, conical grinding, hole grinding, centerless grinding, tool sharpening machines,
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Sedat ŞEN
Assistants:

Recommended or Required Reading

Resources

Talaş Kaldırma Bilimi ve Teknolojisi CNC Takım Tezgahları ve Üretim Otomasyonu / Prof. Dr. Mustafa Akkurt, İmalat İşlemleri İbrahim Nebiler Aralık

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	The definition and application areas of rack gear, manufacturing techniques of rack gear, calculations of rack gear		
2	The definition of milling cutter module,gear control with gauge on the module		
3	The definition and application areas of bevel gear, manufacturing techniques of bevel gear, calculations of bevel gear		
4	Selection of bevel gear milling cutters, control of bevel gear using gear tooth vernier caliper		
5	The definition and application areas of worm gear/worm wheel, manufacturing techniques of bevel gear, calculations of wc		
6	Selection of module gear cutters, control of gear using gear tooth vernier caliper		
7	The definition and application areas of cam gear, manufacturing techniques of cam gear		
8	Calculations of cam gear, selection of milling cutter for cam gear		
9	The definition and significance of internal grinding, equipment used, measurement and control of internal grinding		
10	The definition and characteristic of taper, calculation of taper		
11	The definition and significance of taper grinding, equipment used, measurement and control of taper grinding		
12	Centerless grinding machines, definition and significance of centerless grinding, equipments used		
13	Measurement and control of centerless grinding		
14	Grinding wheels used to sharpen tools, machines and equipments used for sharpening cutting tools,Sharpening of single ai		

Course Learning Outcomes

No	Learning Outcomes
C01	Apply spur gear wheel.
C02	Apply bevel gear wheel.
C03	Apply worm gear wheel.
C04	Apply chain gear.
C05	Apply hole grinding.
C06	Apply conical grinding.
C07	Apply centerless grinding.
C08	A pply tool sharpening.

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	3	42
Hours for off-the-c.r.stud	14	2	28
Assignments	7	3	21
Presentation	0	0	0
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	7	3	21
Project	0	0	0
Final examination	1	1	1
Total Work Load			**114**
ECTS Credit of the Course			**4**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-2006	Work Dies				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
4	MK-2006	Work Dies	2	2	2

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
This course, students gain competence according to the technique is aimed to make punching and binding patterns
Teaching Methods and Techniques:
Punching and binding design patterns
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor Parviz ALİYEV
Assistants:

Recommended or Required Reading

Resources

TMMOB-Pres İşleri Tekniği,No:129,A.Turhan GÜNEŞ,Erk Yayıncılık,Ankara,1987.

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	Drilling pattern design and drawing pictures		
2	Drilling pattern design and drawing pictures		
3	Processing of drilling pattern elements		
4	Processing of drilling pattern elements		
5	Processing of drilling pattern elements		
6	Assembly of drilling pattern elements		
7	Test of drilling patterns		
8	Binding pattern design,Drawing of production pictures of pattern elements		
9	Binding pattern design,Drawing of production pictures of pattern elements		
10	Manufacturing of binding pattern elements		
11	Manufacturing of binding pattern elements		
12	Manufacturing of binding pattern elements		
13	Assembly of binding pattern elements		
14	Test of binding patterns		

Course Learning Outcomes

No	Learning Outcomes
C01	Making Drilling patterns
C02	Making Binding patterns

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	3	42
Assignments	0	0	0
Presentation	7	3	21
Mid-terms	1	1	1
Practice	7	3	21
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
Total Work Load			**114**
ECTS Credit of the Course			**4**

Contribution of Learning Outcomes to Programme Outcomes

bbb

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		**%0**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			**0**
ECTS Credit of the Course			**0**

Contribution of Learning Outcomes to Programme Outcomes

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria

In-Term Studies	Quantity	Percentage
Mid-terms	0	%0
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	0	%0
Total		**%0**

ECTS Allocated Based on Student Workload

Activities	Quantity	Duration	Total Work Load
Course Duration	0	0	0
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	0	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	0	0	0
Total Work Load			**0**
ECTS Credit of the Course			**0**

Contribution of Learning Outcomes to Programme Outcomes

Tokat Gaziosmanpaşa University

Tokat Vocational School
Machine

MK-2044	Systems Analysis and Design				
Semester	**Course Unit Code**	**Course Unit Title**	**L+P**	**Credit**	**Number of ECTS Credits**
4	MK-2044	Systems Analysis and Design	2	2	2

Mode of Delivery:
Face to Face
Language of Instruction:
Turkish
Level of Course Unit:
Associate
Work Placement(s):
No
Department / Program:
Machine
Type of Course Unit:
Required
Objectives of the Course:
In this course, it is aimed to gain abilties related to preparing project by using knowledge and skills acquired in other courses and industrial experience, manufacturing of the project and presenting of the project.
Teaching Methods and Techniques:
Project work
Prerequisites and co-requisities:

Course Coordinator:

Name of Lecturers:
Instructor PARVİZ ALİYEV
Assistants:

Recommended or Required Reading

Resources

İnternet, Kütüphane,Atelye

Course Category

Mathmatics and Basic Sciences	:	**Education**	:
Engineering	:	**Science**	:
Engineering Design	:	**Health**	:
Social Sciences	:	**Field**	:

Weekly Detailed Course Contents

Week	Topics	Study Materials	Materials
1	The feasibility study		
2	The feasibility study		
3	The feasibility study		
4	The feasibility study		
5	The feasibility study		
6	manufacturing of the project		
7	manufacturing of the project		
8	manufacturing of the project		
9	manufacturing of the project		
10	manufacturing of the project		
11	manufacturing of the project		
12	transforming into a report of the project		
13	presenting of the project		
14	presenting of the project		

Course Learning Outcomes

No	Learning Outcomes
C01	Preparing project by using knowledge and skills acquired in other courses and industrial experience
C02	Manufacturing of the project and presenting of the project

Program Learning Outcomes

No	Learning Outcome
P02	· Installs and maintains hydraulic and pneumatic systems.
P03	· Examines the structure of the materials required for the establishment of a mechanical system and selects the appropriate material by performing various operations on the material.
P01	Performs basic mechanical operations and installation of mechanisms.
P04	· Makes computer aided drawings of 2D models of machine parts.

Assessment Methods and Criteria		
In-Term Studies	**Quantity**	**Percentage**
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	0	%0
Project	0	%0
Final examination	1	%60
Total		**% 100**

ECTS Allocated Based on Student Workload			
Activities	**Quantity**	**Duration**	**Total Work Load**
Course Duration	14	2	28
Hours for off-the-c.r.stud	14	2	28
Assignments	0	0	0
Presentation	1	2	2
Mid-terms	1	0	0
Practice	0	0	0
Laboratory	0	0	0
Project	1	10	10
Final examination	1	1	1
Total Work Load			**69**
ECTS Credit of the Course			**2**

Contribution of Learning Outcomes to Programme Outcomes
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