



Tokat Gaziosmanpaşa University

Tokat Vocational School Machine

MK-2019	SANITARY INSTALLATION				
Semester	Code	Name	T+P	Credit	ECTS
3	MK-2019	SANITARY INSTALLATION	2	2	2

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Elective

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Bahattin TÜRKOĞLU	None

The aim of lesson :

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.

Course Contents :

Electives (S)



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Tokat Vocational School Machine

MK-1004	Fundamentals of Manufacturing Process				
Semester	Code	Name	T+P	Credit	ECTS
2	MK-1004	Fundamentals of Manufacturing Process	4	4	6

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Bekir DOĞAN	None

The aim of lesson :

It is aimed at getting the students to acquire proficiency at basic manufacturing procedures by using hand tools, the drilling, milling and grinding machines.

Course Contents :

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.



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MK-1047	Vocational Physics				
Semester	Code	Name	T+P	Credit	ECTS
1	MK-1047	Vocational Physics	4	4	4

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Yunus KÜLTÜREL	None

The aim of lesson :

Material,mechanic,static,dynamic,flow,electric and magnatic,analsys,comment on draw.

Course Contents :

Basic Principles of Physics



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MK-2020	Heating Systems				
Semester	Code	Name	T+P	Credit	ECTS
4	MK-2020	Heating Systems	4	4	4
Education Type	Language	Course Level	Course Internship Status	Type of Course	
Formal Education	Turkish	Associate	No	Elective	
Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants	
Machine		None	Instructor Bahattin TÜRKOĞLU	None	
The aim of lesson :					
The students, aimed to gain the competencies needed to establish a central heating system.					
Course Contents :					
Heating systems and components					



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MK-2051	Quality Assurance and Standards				
Semester	Code	Name	T+P	Credit	ECTS
3	MK-2051	Quality Assurance and Standards	3	3	3
Education Type	Language	Course Level	Course Internship Status	Type of Course	
Formal Education	Turkish	Associate	No	Elective	
Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants	
Machine		None	Hakan ÖZVAR	None	
The aim of lesson :					
In this course, quality assurance and standards in business related to the qualifications to teach.					
Course Contents :					
Concepts of Quality and Standardization, Application of Quality Standards, Turkish Standards and International Standards ... and so on. issues such as the processing is aimed.					



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MK-2006	Work Dies				
Semester	Code	Name	T+P	Credit	ECTS
4	MK-2006	Work Dies	2	2	2
Education Type	Language	Course Level	Course Internship Status	Type of Course	
Formal Education	Turkish	Associate	No	Required	
Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants	
Machine		None	Instructor Parviz ALİYEV	None	
The aim of lesson :					
This course, students gain competence according to the technique is aimed to make punching and binding patterns					
Course Contents :					
Punching and binding design patterns					



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MK-2053	Technology of Cnc Lathe				
Semester	Code	Name	T+P	Credit	ECTS
3	MK-2053	Technology of Cnc Lathe	4	4	6

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Sedat ŞEN	None

The aim of lesson :

With this course, it is aimed to gain an ability related to preparing the CNC lathe to work, writing the programs for CNC lathe and manufacturing by using CNC lathe.

Course Contents :

CNC Lathe to prepare for the job, To write the program and production.



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MK-2008	Technology of Cnc Milling				
Semester	Code	Name	T+P	Credit	ECTS
4	MK-2008	Technology of Cnc Milling	4	4	5

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Sedat ŞEN	None

The aim of lesson :

With this course, it is aimed to gain an ability related to preparing the CNC milling to work, writing the programs for CNC milling and manufacturing by using CNC milling.

Course Contents :

CNC Milling workbench to prepare work, To write the program and production.



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MK-2056	Reseach	Methods and Techniques			
Semester	Code	Name	T+P	Credit	ECTS
4	MK-2056	Reseach Methods and Techniques	2	2	3

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Prof.Dr. MEHMET TEKİN	None

The aim of lesson :

This course, intended to gain the competency to conduct research.

Course Contents :

Understanding the basic rules of doing scientific research.



Tokat Gaziosmanpaşa University

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D0000104	GERMAN II				
Semester	Code	Name	T+P	Credit	ECTS
2	D0000104	GERMAN II	3	3	3
Education Type	Language	Course Level	Course Internship Status	Type of Course	
Formal Education	Turkish	Associate	No	Elective	
Department/Program	Precondition		Course Coordinator	Instructor	Course Assistants
Machine			None	Asist Prof.Dr. ÖMER LÜTFİ İSPİRLİ	None
The aim of lesson :					
The course aims to improve the core knowledge acquired in German Language -I					
Course Contents :					
Basic grammar rules, daily conversations, newspapers and magazines, business writing					



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D0000130	French II				
Semester	Code	Name	T+P	Credit	ECTS
2	D0000130	French II	3	3	3
Education Type	Language	Course Level	Course Internship Status	Type of Course	
Formal Education	Turkish	Associate	No	Elective	
Department/Program	Precondition		Course Coordinator	Instructor	Course Assistants
Machine			None	Asist Prof.Dr. UĞUR KARAKAYA	None
The aim of lesson :					
Course Contents :					



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MK-1001	Mathematics I				
Semester	Code	Name	T+P	Credit	ECTS
1	MK-1001	Mathematics I	3	3	4
Education Type	Language	Course Level	Course Internship Status	Type of Course	
Formal Education	Turkish	Associate	No	Required	
Department/Program	Precondition		Course Coordinator	Instructor	Course Assistants
Machine			None	Çiğdem ÖZTAŞ	None
The aim of lesson :					
With this course, students are intended to gain the necessary competence to apply mathematical knowledge and skills to work for the profession.					
Course Contents :					
First of all, courses aims to provide students mathematical knowledge necessary to his profession. Courses are conducted in a student-centered					



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MK-1050	Thermodynamics				
Semester	Code	Name	T+P	Credit	ECTS
2	MK-1050	Thermodynamics	2	2	2

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Bekir DOĞAN	None

The aim of lesson :

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

Course Contents :

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.



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MK-1051	Strength of Materials				
Semester	Code	Name	T+P	Credit	ECTS
1	MK-1051	Strength of Materials	2	2	3

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Yunus KÜLTÜREL	None

The aim of lesson :

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.

Course Contents :

Calculation of Tensile strength of the types and objects



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MK-1052	Communication				
Semester	Code	Name	T+P	Credit	ECTS
2	MK-1052	Communication	2	2	2

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Elective

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Sedat ŞEN	None

The aim of lesson :

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.

Course Contents :

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



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MK-2001	Computer Aided Technical Drawing I				
Semester	Code	Name	T+P	Credit	ECTS
3	MK-2001	Computer Aided Technical Drawing I	4	4	4

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Hüseyin BAŞDEMİR	None

The aim of lesson :

With this course, it is aimed to make two dimensional drawing with CAD package program.

Course Contents :

The realization of two-dimensional drawings of objects computer program.



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MK-2002	Computer Aided Manufacturing II				
Semester	Code	Name	T+P	Credit	ECTS
4	MK-2002	Computer Aided Manufacturing II	4	4	4

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Asist Prof.Dr. YUNUS KÜLTÜREL	None

The aim of lesson :

In this course, it is aimed to make three-dimensional drawing and assembly with CAD package program.

Course Contents :

Computer-aided three-dimensional drawing and make the assembly, making the official draw



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D0000195	Turkish Language II				
Semester	Code	Name	T+P	Credit	ECTS
2	D0000195	Turkish Language II	2	2	2

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Dr. ERDAL BARAN	None

The aim of lesson :

To make students become familiar with the correct, beautiful and efficient use of the Turkish language to make them base the written and spoken intercourse of the language on strong principals to make them gain their skills in correspondence, presentations and explanations successfully in their business life to make them become intellectual individuals who read, think, inquire and bring solutions.

Course Contents :

According to their subjects, reading, listening, writing, presentation, discussion, sampling, question and answer techniques will be used.



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MK-2043	Manufacturing Process I				
Semester	Code	Name	T+P	Credit	ECTS
3	MK-2043	Manufacturing Process I	4	4	5

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Sedat ŞEN	None

The aim of lesson :

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.

Course Contents :

Translation screws cutting, carry out special turning procedure, and to cut spur and helical gear



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D0000106	Ataturk's Principles and History of Turkish Revolution I				
Semester	Code	Name	T+P	Credit	ECTS
1	D0000106	Ataturk's Principles and History of Turkish Revolution I	2	2	2

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Specialist Dr. Adnan GELMEZ Specialist Dr. Sadet ALTAY Specialist Dr. Ayşe ERYAMAN Specialist Dr. Sabri ZENGİN Specialist Dr. İzzet Bahri ATEŞLİ	None

The aim of lesson :

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.

Course Contents :

Aim of the course, its scope, and basic concepts. Final period of Ottoman Empire, its problems, modernization efforts and collapse. Turkish War of Independence.



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Tokat Vocational School Machine

MK-1042	Machine Technical Drawing				
Semester	Code	Name	T+P	Credit	ECTS
2	MK-1042	Machine Technical Drawing	2	2	2

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor PARVİZ ALİYEV	None

The aim of lesson :

With this course, it is aimed to teach an ability to draw and read the professional technical drawings.

Course Contents :

Professional Technical Drawing



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D0000140	English I				
Semester	Code	Name	T+P	Credit	ECTS
1	D0000140	English I	3	3	3

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	English	Associate	No	Elective

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Burçak TÜRK	None

The aim of lesson :

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.

Course Contents :

This course includes grammar, spelling and pronunciation, vocabulary, listening and speaking skills.



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MK-1003	Technical Drawing				
Semester	Code	Name	T+P	Credit	ECTS
1	MK-1003	Technical Drawing	4	4	4

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Yunus KÜLTÜREL	None

The aim of lesson :

With this course, it is aimed to teach an ability to draw and read the technical drawings.

Course Contents :

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.



Tokat Gaziosmanpaşa University

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MK-1002	Machine Elements				
Semester	Code	Name	T+P	Credit	ECTS
2	MK-1002	Machine Elements	3	3	5

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Bekir DOĞAN	None

The aim of lesson :

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.

Course Contents :

Removable and movable fasteners, shafts and axles and bearing elements to resize and control accounts.



Tokat Gaziosmanpaşa University

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MK-1045	Information and Communication Technology					
Semester	Code	Name	T+P	Credit	ECTS	
1	MK-1045	Information and Communication Technology	3	3	4	

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Elective

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Ömer Faruk GÜRBÜZ	None

The aim of lesson :

This course aims at teaching the competencies on how to improve itself using computational facilities.

Course Contents :

Information and self-improvement



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MK-1048	Hydraulics and Pneumatic					
Semester	Code	Name	T+P	Credit	ECTS	
2	MK-1048	Hydraulics and Pneumatic	4	4	6	

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Bekir DOĞAN	None

The aim of lesson :

In this course, it is aimed to gain ability related to ocuring circuit with the hydraulic and pneumatic components, doing the basic maintenance and repair of the machines.

Course Contents :

Transactions related to hydraulic and pneumatic systems, based on the loom to make the repair and maintenance



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D0000194	Turkish Language I					
Semester	Code	Name	T+P	Credit	ECTS	
1	D0000194	Turkish Language I	2	2	2	

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Asist Prof.Dr. YAVUZ GÜNEŞ	None

The aim of lesson :

To make studens become familiar with the correct, beautiful and efficient use of the Turkish language to maket hem base the written 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.

Course Contents :

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.



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D0000107	Ataturk's Principles and History of Turkish Revolution II				
Semester	Code	Name	T+P	Credit	ECTS
2	D0000107	Ataturk's Principles and History of Turkish Revolution II	2	2	2
Education Type	Language	Course Level	Course Internship Status	Type of Course	
Formal Education	Turkish	Associate	No	Required	
Department/Program	Precondition		Course Coordinator	Instructor	Course Assistants
Machine			None	Specialist Dr. İzzet Bahri ATEŞLİ Specialist Dr. Ayşe ERYAMAN Specialist Dr. Sadet ALTAY Specialist Dr. Sabri ZENGİN Specialist Dr. Adnan GELMEZ	None

The aim of lesson :

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.

Course Contents :

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 strengthen these principles



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MK-1005	Materials Technology				
Semester	Code	Name	T+P	Credit	ECTS
1	MK-1005	Materials Technology	4	4	4
Education Type	Language	Course Level	Course Internship Status	Type of Course	
Formal Education	Turkish	Associate	No	Required	
Department/Program	Precondition		Course Coordinator	Instructor	Course Assistants
Machine			None	Lütfullah DAĞKURS	None

The aim of lesson :

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

Course Contents :

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.



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D0000141	English II				
Semester	Code	Name	T+P	Credit	ECTS
2	D0000141	English II	3	3	3
Education Type	Language	Course Level	Course Internship Status	Type of Course	
Formal Education	English	Associate	No	Elective	
Department/Program	Precondition		Course Coordinator	Instructor	Course Assistants
Machine			None	Instructor Burçak TÜRK	None

The aim of lesson :

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.

Course Contents :

This course includes grammar, spelling and pronunciation, vocabulary, listening and speaking skills.



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MK-2044	Systems Analysis and Design				
Semester	Code	Name	T+P	Credit	ECTS
4	MK-2044	Systems Analysis and Design	2	2	2

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor PARVİZ ALİYEV	None

The aim of lesson :

In this course, it is aimed to gain abilities 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.

Course Contents :
Project work



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MK-2045	Weld Technology				
Semester	Code	Name	T+P	Credit	ECTS
3	MK-2045	Weld Technology	2	2	2

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Elective

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Parviz Aliyev	None

The aim of lesson :

In this course, it is aimed to gain abilities related to welding with methods based on melting and welding under protective atmosphere.

Course Contents :

To make Gas melting, electric arc, gas in the atmosphere (MIG / MAG), and TIG welding



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MK-2046	Manufacturing Process II				
Semester	Code	Name	T+P	Credit	ECTS
4	MK-2046	Manufacturing Process II	3	3	4

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Sedat ŞEN	None

The aim of lesson :

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.

Course Contents :

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,



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D0000103	GERMAN I				
Semester	Code	Name	T+P	Credit	ECTS
1	D0000103	GERMAN I	3	3	3

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Elective

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Cafer AKIN	None

The aim of lesson :

The aim of the course is to make students acquire German language as the second foreign language at basic level.

Course Contents :

Alphabet, numbers, basic grammar rules, telling the time, easy daily conversations, some common formal and informal phrases etc.



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MK-2003	Computer Aided Manufacturing I				
Semester	Code	Name	T+P	Credit	ECTS
3	MK-2003	Computer Aided Manufacturing I	4	4	4

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Sedat ŞEN	None

The aim of lesson :

In this course, it is aimed to gain abilities related to manufacturing in CNC lathe by using CAM package programs.

Course Contents :

Manufacturing in CNC lathe



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MK-2004	Computer Aided Manufacturing II				
Semester	Code	Name	T+P	Credit	ECTS
4	MK-2004	Computer Aided Manufacturing II	4	4	4

Education Type	Language	Course Level	Course Internship Status	Type of Course
Formal Education	Turkish	Associate	No	Required

Department/Program	Precondition	Course Coordinator	Instructor	Course Assistants
Machine		None	Instructor Sedat ŞEN	None

The aim of lesson :

In this course, it is aimed to gain abilities related to manufacturing in CNC Milling by using CAM package programs

Course Contents :

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

