



# Siirt University

SCHOOL OF HEALTH SERVICES  
Tıbbi Laboratuvar Teknikleri

AİİT 101 History of Turkish Revolution & Atatürk -I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	AİİT 101	History of Turkish Revolution & Atatürk -I	2	2	2

### Language of Instruction:

Türkçe

### Course Level:

Associate

### Work Placement(s):

No

### Department / Program:

Tıbbi Laboratuvar Teknikleri

### Course Type:

Zorunlu

### Goals:

The generic goal of this course is to analyze the conditions for the Turkish Revolution, to criticize the reasons of the Ottoman collapse, Balkan Wars, WWI, dynamics of the National Struggle. To get students to explain well the concepts like revolution and reform. Additionally to summarize political developments in completed phase of Turkish Revolution and establishment process of new state, Atatürk Revolutions in the political and social fields Events, thoughts and principles in the rise and development process of Modern Turkey

### Teaching Methods and Techniques:

Events, thoughts and principles in the rise and development process of Modern Turkey

### Prerequisites:

### Course Coordinator:

### Instructors:

Instructor Resul BABAĞLU

### Assistants:

### Recommended Sources

<b>Textbook</b>	: He has top level knowledge and ability supported by textbooks including current knowledge, practicing devices and instruments as well as the other
<b>Resources</b>	: He analyzes and evaluates the concepts, idea and data related with history discipline by means of research methods in social sciences, diagnoses,
<b>Documents</b>	: He informs experts uninformed person related with history discipline, expresses clearly his ideas about his findings to them both written and orally
<b>Assignments</b>	: He has the abilities of critical, creative thinking and analyzing by means of history methodology, makes independent and collective works related with
<b>Exams</b>	: He takes responsibility and tries to generate solution on the subjects which have not brightened due to deficiency in historical information and data

### Course Category

<b>Mathematics and Basic Sciences</b>	:	<b>Education</b>	:	10
<b>Engineering</b>	:	<b>Science</b>	:	
<b>Engineering Design</b>	:	<b>Health</b>	:	
<b>Social Sciences</b>	:	<b>Field</b>	:	50

### Course Content

Week	Topics	Study Materials	Materials
1	Revolution, evolution, rebellion, government stroke, reform, Characteristics of Turkish Revolution	Presentation	Preparation, Proposed Sources
2	Attempts to save the Ottoman Empire, trends of thought	Presentation	Preparation, Proposed Sources
3	Trablusgarp and Balkan Wars, First World War, Ottoman Empire's entry to the war, fronts where Ottoman armies struggled at	Presentation	Preparation, Proposed Sources
4	Mondros Armistice and occupations, National War of Liberation, occupation of İzmir and reactions to the occupation	Presentation	Preparation, Proposed Sources
5	The preparation period of the war, assemblies	Presentation	Preparation, Proposed Sources
6	The preparation period of the war, assemblies	Presentation	Preparation, Proposed Sources
7	Mustafa Kemal's journey to Samsun, and organization of the Anatolian revolution, Amasya General Opening of the Turkish G	Presentation	Preparation, Proposed Sources
8	Mustafa Kemal's journey to Samsun, and organization of the Anatolian revolution, Amasya General Opening of the Turkish G	Presentation	Preparation, Proposed Sources
9	War of Liberation and Fronts: Eastern and Southern Fronts	Presentation	Preparation, Proposed Sources
10	Western Front: First İnönü War, Second İnönü War, Eskişehir-Kütahya Wars, Sakarya War, Grand Attack	Presentation	Preparation, Proposed Sources
11	West Front: First Battle of İnönü, İnönü War, Second Battle of Sakarya and The Great Raid.	Presentation	Preparation, Proposed Sources
12	Cease Fire antlaşması, hilafet removal of the kaldırılması, tekk lodges ..	Presentation	Preparation, Proposed Sources
13	Constitutional Developments in Turkey	Presentation	Preparation, Proposed Sources
14	The interior and external politics developments under periods of Atatürk and İnönü	Presentation	Preparation, Proposed Sources

### Course Learning Outcomes

No	Learning Outcomes
C01	Learns the reasons that cause the fall of Ottoman Empire.
C02	Evaluates the results of the innovation movements in the Ottoman Empire.
C03	Understands the importance of awakening of the Turkish Nation that initiated under the leadership of Atatürk
C04	Adopts the Turkish revolution and Atatürk's principles.
C05	Analyzes the various historical literature on these topics
C06	Defines the revolution and the relevant concepts with revolution
C07	Knows and compares the streams of thought in the Ottoman Empire.
C08	Analyzes the results of the treaties signed during the Ottoman period.

### Program Learning Outcomes

No	Learning Outcome
P09	Communicate effectively with their colleagues, patients, doctors and other health care workers by considering the professional and ethic values related to their field.
P08	Take safety precautions in medical laboratory, apply personal safety rules, and create safe laboratory environment.
P07	Make work organizations in medical laboratory, take personal responsibility when needed during performing the tasks with the consciousness of team work.
P12	Update their knowledge, skills and faculties of the field with the consciousness of life long learning, and attend the programs, vocational in-service activities and workshops in order to improve them
P11	Use well the information and communication technologies, and the computer software related to the field of Medical Laboratory Techniques.
P10	Act proper to the related laws, regulations and directives as an individual working in the field of medical laboratory.
P03	Perform pre-analysis preparation processes, prepare preparatives, apply disinfection and sterilization techniques.
P02	Have the necessary knowledge and skills about taking, preserving and transferring biological materials for the medical laboratory tests from the patient.
P01	Professionally evaluate and apply the knowledge gained through the theoretical and applied courses which are at the base level aided with course books, application tools and other resources in the
P06	Use laboratory tools and gadgets according to the rules and techniques, make them work with the most efficiency by controlling and maintaining.
P05	Have theoretical and practical skills about the preparation of solutions for the tests to be made in laboratory.
P04	Apply basic tests in various fields of medical laboratory, prepare analysis solutions.

Assessment		
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
<b>Total</b>		<b>%100</b>

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	2	2
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
<b>Total Work Load</b>			<b>60</b>
<b>ECTS Credit of the Course</b>			<b>2</b>

Course Contribution To Program													
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Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12
All	2	2	2	2	2	2	2	2	2	2	2	2
C01	2	2	2	2	2	2	3	3	3	3	3	3
C02	1	3	3	3	3	3	2	2	2	2	2	3
C03	2	2	2	2	2	2	2	2	2	2	2	3
C04	2	1	1	1	1	1	1	1	1	1	1	3
C05	3	3	3	3	3	3	3	3	3	3	3	3
C06	3	2	2	2	2	2	2	2	2	2	2	3
C07	2	2	2	2	2	1	3	3	3	3	3	3
C08	3	3	3	3	3	1	3	1	1	1	1	3



## Siirt University

SCHOOL OF HEALTH SERVICES  
Tıbbi Laboratuvar Teknikleri

KIM 101		GENEL KİMYA-I			
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	KIM 101	GENEL KİMYA-I	4	4	4

### Language of Instruction:

Türkçe

### Course Level:

Associate

### Work Placement(s):

No

### Department / Program:

Tıbbi Laboratuvar Teknikleri

### Course Type:

Zorunlu

### Goals:

General Chemistry-I The main target of this course is to make students comprehend the basic methodology of chemistry and the logic that will bring students from qualitative concepts to quantitative results

### Teaching Methods and Techniques:

1: Lecture, 2: Question-Answer, 3: Discussion, 4: Drilland Practice

### Prerequisites:

### Course Coordinator:

### Instructors:

Associate Prof.Dr. Cafer SAKA

### Assistants:

### Recommended Sources

<b>Textbook</b>	:	[1] Petrucci,R.H., Harwood, W.S., Herring, F.G., (8. Baskıdan Çeviri Uyar, T., Aksoy, S.), Palme Yayıncılık, Ankara, 2005
<b>Resources</b>	:	[2] Erdik E., Sarıkaya Y., Temel Üniversite Kimyası, Gazi Kitapevi, Ankara, 2005
<b>Documents</b>	:	
<b>Assignments</b>	:	
<b>Exams</b>	:	

### Course Category

<b>Mathematics and Basic Sciences</b>	:	<b>Education</b>	:	
<b>Engineering</b>	:	<b>Science</b>	:	100
<b>Engineering Design</b>	:	<b>Health</b>	:	
<b>Social Sciences</b>	:	<b>Field</b>	:	

### Course Content

Week	Topics	Study Materials	Materials
1	Matter qualities and measurement		
2	Atoms and atom theories		
3	Chemical compounds		
4	Chemical reactions		
5	Liquid solution reactions		
6	Gases		
7	Thermochemistry		
8	Electron structure of the atom		
9	Midterm Exam		
10	Periodic table and properties of the atoms		
11	Chemical Bond I, General concepts		
12	Chemical Bond II, Bond theorems		
13	Liquids, solids and Intermolecular forces		
14	Solutions and Physical properties		
15	Solutions and Physical properties		

### Course Learning Outcomes

No	Learning Outcomes
C01	1) define all the theories and laws of chemistry and structure of atom
C02	2) define the properties of molecules, bond theories, intermolecular interactions and bond properties
C03	3) define the stoichiometry of chemical reaction, energy, and heat properties
C04	4) define the structure of matter and properties and behavior of phases
C05	5) explain fundamental laws and theories of chemistry and mechanisms of chemical phenomena
C06	6) apply the chemical problems to the laws of chemistry and interpret them
C07	7) compare and solve the way of occurrence of chemical phenomena and compare the properties of them

### Program Learning Outcomes

No	Learning Outcome
P09	Communicate effectively with their colleagues, patients, doctors and other health care workers by considering the professional and ethic values related to their field.
P08	Take safety precautions in medical laboratory, apply personal safety rules, and create safe laboratory environment.
P07	Make work organizations in medical laboratory, take personal responsibility when needed during performing the tasks with the consciousness of team work.
P12	Update their knowledge, skills and faculties of the field with the consciousness of life long learning, and attend the programs, vocational in-service activities and workshops in order to improve them.
P11	Use well the information and communication technologies, and the computer software related to the field of Medical Laboratory Techniques.
P10	Act proper to the related laws, regulations and directives as an individual working in the field of medical laboratory.
P03	Perform pre-analysis preparation processes, prepare preparatives, apply disinfection and sterilization techniques.
P02	Have the necessary knowledge and skills about taking, preserving and transferring biological materials for the medical laboratory tests from the patient.
P01	Professionally evaluate and apply the knowledge gained through the theoretical and applied courses which are at the base level aided with course books, application tools and other resources in the
P06	Use laboratory tools and gadgets according to the rules and techniques, make them work with the most efficiency by controlling and maintaining.
P05	Have theoretical and practical skills about the preparation of solutions for the tests to be made in laboratory.
P04	Apply basic tests in various fields of medical laboratory, prepare analysis solutions.





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LABORATUVAR ALETLERİ-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	TLT 123	LABORATUVAR ALETLERİ-I	4	3	4

### Language of Instruction:

Türkçe

### Course Level:

Associate

### Work Placement(s):

No

### Department / Program:

Tıbbi Laboratuvar Teknikleri

### Course Type:

Zorunlu

### Goals:

To teach the use and maintenance of tools and equipments which are used in laboratories; and the working conditions of laboratories.

### Teaching Methods and Techniques:

Lecture, Question-Answer, Demonstration, Motivations to Show, Problem Solving

### Prerequisites:

### Course Coordinator:

### Instructors:

Associate Prof.Dr. Cafer SAKA

### Assistants:

### Recommended Sources

Textbook	:
Resources	:
Documents	:
Assignments	:
Exams	:

### Course Category

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

### Course Content

Week	Topics	Study Materials	Materials
1	Working rules at a medical laboratory		
2	Glass spplies and Plastic spplies at a medical laboratory		
3	Hygiene of laboratory supplies		
4	Sterilization and disinfection		
5	Measurement and units of measurement		
6	Distilled water systems		
7	Etüv, sterilizator, otoklav, su banyosu tanıtımı ve kullanımı		
8	Mid term exam		
9	Mixer, heater, cooter systems		
10	Centrifuge and centrifugation		
11	Scales and useage of scales		
12	Ph and measurement of ph		
13	Spectroscopy and UV apparatus		
14	Electrophoresis		
15	Electrophoresis		

### Course Learning Outcomes

No	Learning Outcomes
C01	Working rules at a medical laboratory
C02	Supplies at a medical laboratory
C03	Hygiene of laboratory supplies
C04	Measurement and units of measurement
C05	Sterilization and disinfection
C06	Ph and measurement of ph
C07	Liquids, electrilit, acid and base equilibrium
C08	laboratovary tests

### Program Learning Outcomes

No	Learning Outcome
P09	Communicate effectively with their colleaques, patients, doctors and other health care workers by considering the professional and ethic values related to their field.
P08	Take safety precautions in medical laboratory, apply personal safety rules, and create safe laboratory environment.
P07	Make work organizations in medical laboratory, take personal responsibility when needed during performing the tasks with the consciousness of team work.
P12	Update their knowledge, skills and faculties of the field with the consciousness of life long learning, and attend the programs, vocational in-service activities and workshops in order to improve them
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Tıbbi Laboratuvar Teknikleri

TLT 125 MESLEK ETİĞİ					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	TLT 125	MESLEK ETİĞİ	2	2	3

### Language of Instruction:

Türkçe

### Course Level:

Associate

### Work Placement(s):

No

### Department / Program:

Tıbbi Laboratuvar Teknikleri

### Course Type:

Zorunlu

### Goals:

This course aims to teach the competencies related to professional ethics are.

### Teaching Methods and Techniques:

Narration and discussion

### Prerequisites:

### Course Coordinator:

### Instructors:

### Assistants:

### Recommended Sources

<b>Textbook</b>	:	Nuran Öztürk, Blackwell Publishers, Demeter, Professional Ethics, distinguished Publications, Ankara, 2011
<b>Resources</b>	:	Mahmut Arslan, Business and Professional Ethics, Political Publications, Ankara, 2012
<b>Documents</b>	:	
<b>Assignments</b>	:	Öztürk Nuran, Çakıroğlu Demet, Meslek Etiği, Seçkin Yayınları, Ankara, 2011 Arslan Mahmut, İş ve Meslek Ahlakı, Siyasal Kitabevi, Ankara, 2012
<b>Exams</b>	:	

### Course Category

<b>Mathematics and Basic Sciences</b>	:		<b>Education</b>	:	
<b>Engineering</b>	:		<b>Science</b>	:	
<b>Engineering Design</b>	:		<b>Health</b>	:	50
<b>Social Sciences</b>	:	50	<b>Field</b>	:	

### Course Content

Week	Topics	Study Materials	Materials
1	Etik ve ahlak kavramlarını incelemek		Nuran Öztürk, Blackwell Publishers, Derr
2	Examine the concepts of ethics and morality		Nuran Öztürk, Blackwell Publishers, Derr
3	Examine the ethical system		Nuran Öztürk, Blackwell Publishers, Derr
4	Examine the ethical system		Nuran Öztürk, Blackwell Publishers, Derr
5	Examine the ethical system		Nuran Öztürk, Blackwell Publishers, Derr
6	Examine the factors that play a role in the formation of morality		Nuran Öztürk, Blackwell Publishers, Derr
7	Examine the factors that play a role in the formation of morality		Nuran Öztürk, Blackwell Publishers, Derr
8	Examine the ethics of the profession		Nuran Öztürk, Blackwell Publishers, Derr
9	Examine the ethics of the profession		Nuran Öztürk, Blackwell Publishers, Derr
10	Examine the ethics of the profession		Nuran Öztürk, Blackwell Publishers, Derr
11	Examine the ethics of the profession		Nuran Öztürk, Blackwell Publishers, Derr
12	Professional corruption and unethical behavior in professional life looking at the results		Nuran Öztürk, Blackwell Publishers, Derr
13	Examine the concept of social responsibility		Nuran Öztürk, Blackwell Publishers, Derr

### Course Learning Outcomes

#### No Learning Outcomes

C01	Ethics, morality, define the basic concepts, Announced that the moral good which can be determined by methods
C02	Explain the differences between the concepts of ethics and morality
C03	Define fundamental professional values??, Explain the moral implications of professional values ??right
C04	profession To explain the consequences of unethical behavior in life
C05	Ethics will be able to analyze
C06	Professional values ??and ethics in the face of problems will find solutions that can be justified, Case examples that can be applied in professional values
C07	Professional ethics in the national and international regulations describe how they were involved, To understand how to reach the relevant regulations
C08	To evaluate the concept of social responsibility.

### Program Learning Outcomes

#### No Learning Outcome

P09	Communicate effectively with their colleagues, patients, doctors and other health care workers by considering the professional and ethic values related to their field.
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P06	Use laboratory tools and gadgets according to the rules and techniques, make them work with the most efficiency by controlling and maintaining.
P05	Have theoretical and practical skills about the preparation of solutions for the tests to be made in laboratory.
P04	Apply basic tests in various fields of medical laboratory, prepare analysis solutions.

Assessment		
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
<b>Total</b>		<b>%100</b>

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	1	24	24
Presentation	1	24	24
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
<b>Total Work Load</b>			<b>78</b>
<b>ECTS Credit of the Course</b>			<b>3</b>

Course Contribution To Program												
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant												

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12
C01	4	3	4	2	1	3	4	5	4	4	3	3
C02	4	3	4	2	1	3	4	5	4	4	3	3
C03	4	3	4	2	1	3	4	5	4	4	3	3
C04	4	3	4	2	1	3	4	5	4	4	3	3
C05	4	3	4	2	1	3	4	5	4	4	3	3
C06	4	3	4	2	1	3	4	5	4	4	3	3
C07	4	3	4	2	1	3	4	5	4	4	3	3
C08	4	3	4	2	1	3	4	5	4	4	3	3





## Siirt University

SCHOOL OF HEALTH SERVICES  
Tıbbi Laboratuvar Teknikleri

SEC105 SEÇMELİ DERS (KİMYA SAĞLIK)					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	SEC105	SEÇMELİ DERS (KİMYA SAĞLIK)	2	2	3

### Language of Instruction:

Türkçe

### Course Level:

Associate

### Work Placement(s):

No

### Department / Program:

Tıbbi Laboratuvar Teknikleri

### Course Type:

Zorunlu Seçmeli

### Goals:

Importance of Water For People and the environment; Mechanisms of Toxic Effects of Some Chemical; Some of the Environmental Impacts of Chemicals, Protection Methods; Serum contents and effects; pH and buffer solutions are aimed to be familiar with the subject.

### Teaching Methods and Techniques:

Atoms and Matter, Water, and serum solution, Toxic Substances, pH and buffer solutions, Minerals, Natural Chemistry, Food and Chemical Energy, Energy Resources

### Prerequisites:

### Course Coordinator:

Prof.Dr. SALİH İLHAN

### Instructors:

Prof.Dr. SALİH İLHAN

### Assistants:

Prof.Dr. SALİH İLHAN

### Recommended Sources

Textbook	:	Medicinal Chemistry, David A. Williams PhD (Editor)
Resources	:	
Documents	:	
Assignments	:	
Exams	:	

### Course Category

Mathematics and Basic Sciences	:	Education	:
Engineering	:	Science	: 50
Engineering Design	:	Health	: 50
Social Sciences	:	Field	:

### Course Content

Week	Topics	Study Materials	Materials
1	1. Atoms and Matter		
2	Atoms and Matter		
3	3. Atoms and Matter		
4	Water		
5	Water		
6	6. Solution and Serum		
7	Midterm exam		
8	8. Toxic Substances,		
9	9. pH and buffer solutions.		
10	10. Minerals,		
11	11. Biological Chemistry,		
12	12. Food and Chemical Energy		
13	13. Energy Resources		
14	Overall Rating		

### Course Learning Outcomes

No	Learning Outcomes
CO1	Importance of Water For People and the environment; Mechanisms of Toxic Effects of Some Chemical; Some of the Environmental Impacts of Chemicals, Protection Methods; Serum contents and e

### Program Learning Outcomes

No	Learning Outcome
P09	Communicate effectively with their colleagues, patients, doctors and other health care workers by considering the professional and ethic values related to their field.
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P06	Use laboratory tools and gadgets according to the rules and techniques, make them work with the most efficiency by controlling and maintaining.
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P04	Apply basic tests in various fields of medical laboratory, prepare analysis solutions.





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SCHOOL OF HEALTH SERVICES  
Tıbbi Laboratuvar Teknikleri

TLT 131		TEMEL MİKROBİYOLOJİ-I			
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	TLT 131	TEMEL MİKROBİYOLOJİ-I	4	3	4

**Language of Instruction:**

Türkçe

**Course Level:**

Associate

**Work Placement(s):**

No

**Department / Program:**

Tıbbi Laboratuvar Teknikleri

**Course Type:**

Zorunlu

**Goals:**

Disinfection, sterilization, media preparation by applying the appropriate sampling, preparation and preparation of microbiological media, making planting is to develop knowledge and skills

**Teaching Methods and Techniques:**

Disinfection, Sterilization, Media Preparation, Suitable Case Retrieval, Preparation of microbiological, making planting medium

**Prerequisites:****Course Coordinator:****Instructors:**

Instructor ASIM ÖZBEK

**Assistants:****Recommended Sources**

<b>Textbook</b>	:	
<b>Resources</b>	:	3. Ustaçelebi, Ş.1999, Basic And Clinical Microbiology, Sun, Ankara, Turkey.
<b>Documents</b>	:	4. Redston, C. 2006; Face to Face Elementary Coursebook, Cambridge University Press, Great Britain.
<b>Assignments</b>	:	1. Aksöz, T.1998; Microbiology, Nobel, Bursa.
<b>Exams</b>	:	2. Sahin, İ.1999; General Microbiology, Uludag University, Bursa. nırdı mikrobivolojisi kitabı . prof.dr. Mustafa TAYAR . mikrobivolojii.org. sitesi

**Course Category**

<b>Mathematics and Basic Sciences</b>	:		<b>Education</b>	:	
<b>Engineering</b>	:		<b>Science</b>	:	10
<b>Engineering Design</b>	:		<b>Health</b>	:	40
<b>Social Sciences</b>	:	10	<b>Field</b>	:	40

**Course Content**

Week	Topics	Study Materials	Materials
2	Disinfection Sterilization	Presentation Preparation	Proposed Sources
3	Sterilization	Presentation Preparation	Proposed Sources
4	Media Preparation	Presentation Preparation	Proposed Sources
5	Media Preparation	Presentation Preparation	Proposed Sources
6	Media Preparation	Presentation Preparation	Proposed Sources
7	Take Appropriate Samples	Presentation Preparation	Proposed Sources
8	Mid-Term Exam	sunum hazırlama	önerilen kaynaklar
9	uygun örneği alma	sunum hazırlama	önerilen kaynaklar
10	Preparation Of Microbiological Preparation	Presentation Preparation	Proposed Sources
11	Preparation Of Microbiological Preparation	Presentation Preparation	Proposed Sources
12	Planting Medium To	Presentation Preparation	Proposed Sources
13	Planting Medium To	Presentation Preparation	Proposed Sources
14	Planting Medium To	Presentation Preparation	Proposed Sources

**Course Learning Outcomes**

No	Learning Outcomes
C01	Makes disinfection
C02	Makes sterilization
C03	Prepare medium
C04	Microbiological sample is
C05	Microbiological preparation prepares
C06	Planting medium does

**Program Learning Outcomes**

No	Learning Outcome
P09	Communicate effectively with their colleagues, patients, doctors and other health care workers by considering the professional and ethic values related to their field.
P08	Take safety precautions in medical laboratory, apply personal safety rules, and create safe laboratory environment.
P07	Make work organizations in medical laboratory, take personal responsibility when needed during performing the tasks with the consciousness of team work.
P12	Update their knowledge, skills and faculties of the field with the consciousness of life long learning, and attend the programs, vocational in-service activities and workshops in order to improve them
P11	Use well the information and communication technologies, and the computer software related to the field of Medical Laboratory Techniques.
P10	Act proper to the related laws, regulations and directives as an individual working in the field of medical laboratory.
P03	Perform pre-analysis preparation processes, prepare preparatives, apply disinfection and sterilization techniques.
P02	Have the necessary knowledge and skills about taking, preserving and transferring biological materials for the medical laboratory tests from the patient.
P01	Professionally evaluate and apply the knowledge gained through the theoretical and applied courses which are at the base level aided with course books, application tools and other resources in the
P06	Use laboratory tools and gadgets according to the rules and techniques, make them work with the most efficiency by controlling and maintaining.
P05	Have theoretical and practical skills about the preparation of solutions for the tests to be made in laboratory.
P04	Apply basic tests in various fields of medical laboratory, prepare analysis solutions.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%25
Quizzes	0	%0
Assignment	0	%0
Attendance	0	%0
Practice	2	%15
Project	0	%0
Final examination	1	%60
<b>Total</b>		<b>%100</b>

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	6	1	6
Presentation	9	1	9
Mid-terms	1	1	1
Practice	4	2	8
Laboratory	6	2	12
Project	0	0	0
Final examination	1	2	2
<b>Total Work Load</b>			<b>122</b>
<b>ECTS Credit of the Course</b>			<b>4</b>

Course Contribution To Program												
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant												

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12
C01	4	4	5	3	2	5	4	2	2	4	4	4
C02	4	4	5	3	2	5	4	2	2	4	4	4
C03	4	4	5	3	2	5	4	2	2	4	4	4
C04	4	4	5	3	2	5	4	2	2	4	4	4
C05	4	4	5	3	2	5	4	2	2	4	4	4
C06	4	4	5	3	2	5	4	2	2	4	4	4



## Siirt University

SCHOOL OF HEALTH SERVICES  
Tıbbi Laboratuvar Teknikleri

TLT 129 TIBBİ BİYOLOJİ VE GENETİK					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	TLT 129	TIBBİ BİYOLOJİ VE GENETİK	2	2	3

### Language of Instruction:

Türkçe

### Course Level:

Associate

### Work Placement(s):

No

### Department / Program:

Tıbbi Laboratuvar Teknikleri

### Course Type:

Zorunlu

### Goals:

Provide information to students about cytogenetics especially prenatal diagnosis

### Teaching Methods and Techniques:

Question-answer, discussion, prepare

### Prerequisites:

### Course Coordinator:

### Instructors:

Instructor ASIM ÖZBEK

### Assistants:

### Recommended Sources

<b>Textbook</b>	:	The Cell: A molecular approach. Cooper GM, Hausman RE. Fifth Ed. 2009.
<b>Resources</b>	:	1) Kasap H, Kasap M, Demirhan O, Alptekin D, Lüleyap Ü, Pazarbaşı A, Güzel Aİ. Tıbbi Biyoloji ve Genetik. Nobel Tıp Kitabevi, 2010.
<b>Documents</b>	:	değişik internet kaynakları, mikrobiyoloji.org. sitesi, tıbbi biyoloji ve genetik ders kitabı. Ankara. 2006. TEKŞEN, F.
<b>Assignments</b>	:	1) Tıbbi Biyoloji ve Genetik. Kasap H, Kasap M, Demirhan O, Alptekin D, Lüleyap Ü, Pazarbaşı A, Güzel Aİ. Nobel Tıp Kitabevi, 2010.
<b>Exams</b>	:	

### Course Category

<b>Mathematics and Basic Sciences</b>	:	20	<b>Education</b>	:	
<b>Engineering</b>	:		<b>Science</b>	:	
<b>Engineering Design</b>	:		<b>Health</b>	:	40
<b>Social Sciences</b>	:	0	<b>Field</b>	:	40

### Course Content

Week	Topics	Study Materials	Materials
1	What is prenatal diagnosis?		
2	Methods of prenatal diagnosis		
3	Cytogenetics		
4	Tissue Culture Methods		
5	Lymphocytes Culture Method		
6	Amniosynthesis		
7	Amniosynthesis		
8	Chorionic Villus Sampling		
9	Cordosynthesis		
10	Chromosome analysis, Karotyping, Chromosome Classification		
11	Techniques of Preparation		
12	Staining Methods		
13	Flourescence In Situ Hybridization (FISH) method		
14	Analysis Chromosomes at Microscopy		

### Course Learning Outcomes

#### No Learning Outcomes

C01	Identify chromosomes
C02	Learn information about prenatal diagnosis
C03	Advance the usage of microscopy
C04	Learn preparation

### Program Learning Outcomes

#### No Learning Outcome

P09	Communicate effectively with their colleagues, patients, doctors and other health care workers by considering the professional and ethic values related to their field.
P08	Take safety precautions in medical laboratory, apply personal safety rules, and create safe laboratory environment.
P07	Make work organizations in medical laboratory, take personal responsibility when needed during performing the tasks with the consciousness of team work.
P12	Update their knowledge, skills and faculties of the field with the consciousness of life long learning, and attend the programs, vocational in-service activities and workshops in order to improve them.
P11	Use well the information and communication technologies, and the computer software related to the field of Medical Laboratory Techniques.
P10	Act proper to the related laws, regulations and directives as an individual working in the field of medical laboratory.
P03	Perform pre-analysis preparation processes, prepare preparatives, apply disinfection and sterilization techniques.
P02	Have the necessary knowledge and skills about taking, preserving and transferring biological materials for the medical laboratory tests from the patient.
P01	Professionally evaluate and apply the knowledge gained through the theoretical and applied courses which are at the base level aided with course books, application tools and other resources in the
P06	Use laboratory tools and gadgets according to the rules and techniques, make them work with the most efficiency by controlling and maintaining.
P05	Have theoretical and practical skills about the preparation of solutions for the tests to be made in laboratory.
P04	Apply basic tests in various fields of medical laboratory, prepare analysis solutions.

Assessment		
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
<b>Total</b>		<b>%100</b>

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	6	2	12
Presentation	10	2	20
Mid-terms	1	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	2	2
<b>Total Work Load</b>			<b>91</b>
<b>ECTS Credit of the Course</b>			<b>3</b>

Course Contribution To Program												
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant												

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12
All	4	4	4	4	4	4	4	4	4	4	4	4
C01	4	5	5	3	4	3	4	4	4	4	3	3
C02	4	5	5	3	4	3	4	4	4	4	3	3
C03	4	5	5	3	4	3	4	4	4	4	3	3
C04	4	5	5	3	4	3	4	4	4	4	3	3



# Siirt University

SCHOOL OF HEALTH SERVICES  
Tıbbi Laboratuvar Teknikleri

TLT 127 TIBBİ TERMİNOLOJİ					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	TLT 127	TIBBİ TERMİNOLOJİ	2	2	3

#### Language of Instruction:

Türkçe

#### Course Level:

Associate

#### Work Placement(s):

No

#### Department / Program:

Tıbbi Laboratuvar Teknikleri

#### Course Type:

Zorunlu

#### Goals:

Medical field of health care personnel will be deployed to provide information about the human body.

#### Teaching Methods and Techniques:

Expository teaching, teaching through discovery, multi-intelligence approach, self-study method.

#### Prerequisites:

#### Course Coordinator:

#### Instructors:

Instructor ASIM ÖZBEK

#### Assistants:

#### Recommended Sources

<b>Textbook</b>	:	The importance of the science of anatomy, sub-branches, anatomical terms, concepts, organs and systems in the regional structure provides. System
<b>Resources</b>	:	
<b>Documents</b>	:	Anatomi biliminin önemi, alt dalları, anatomik terimleri, kavramları, bölgesel yapısı içerisinde organları ve sistemleri içerir. Sistemler, Hareket sistemi,
<b>Assignments</b>	:	
<b>Exams</b>	:	

#### Course Category

<b>Mathematics and Basic Sciences</b>	:	0	<b>Education</b>	:	0
<b>Engineering</b>	:	0	<b>Science</b>	:	10
<b>Engineering Design</b>	:	0	<b>Health</b>	:	15
<b>Social Sciences</b>	:	10	<b>Field</b>	:	65

#### Course Content

Week	Topics	Study Materials	Materials
1	Anatomi biliminin önemi, alt dalları.	Slayt hazırlama	Tıbbi Terminoloji ders kitabı
2	Anatomik terimler, kavramlar	Slayt hazırlama	Tıbbi Terminoloji ders kitabı
3	Anatominin bölgesel yapısı	Slayt hazırlama	Tıbbi terminoloji ders kitabı
4	Sistemler, hareket sistemi,	Slayt hazırlama	Tıbbi terminoloji ders kitabı
5	Dolaşım sistemi.	Slayt hazırlama	Tıbbi Terminoloji Ders kitabı
6	Solunum sistemi.	Slayt hazırlama	Tıbbi Terminoloji ders kitabı
7	Sindirimsistemi.	Slayt hazırlama	Tıbbi Terminoloji Ders kitabı
8	Sinir sistemi	Slayt hazırlama	Tıbbi Terminoloji ders kitabı
9	sinir sistemi	Slayt hazırlama	Tıbbi terminoloji ders kitabı
10	Bosaltım sistemi	Slayt hazırlama	Tıbbi terminoloji ders kitabı
11	Bosaltım Sistemi.	Slayt hazırlama.	Tıbbi Terminoloji ders kitabı.
12	Ureme sistemi.	Slayt Hazırlama	Tıbbi Terminoloji ders kitabı
13	Endokrin sistemi.	Slayt hazırlama	Tıbbi terminoloji ders kitabı

#### Course Learning Outcomes

##### No Learning Outcomes

C01	to know the terminology used in hospitals
C02	to read and understand the issues The hospital reports, records and documents
C03	to provide an understanding of medical terms of the body' systems
C04	Endocrine site knows the terminology
C05	Motion system knows the terminology of
C06	Read and understand the terminology of the respiratory system

#### Program Learning Outcomes

##### No Learning Outcome

P09	Communicate effectively with their colleagues, patients, doctors and other health care workers by considering the professional and ethic values related to their field.
P08	Take safety precautions in medical laboratory, apply personal safety rules, and create safe laboratory environment.
P07	Make work organizations in medical laboratory, take personal responsibility when needed during performing the tasks with the consciousness of team work.
P12	Update their knowledge, skills and faculties of the field with the consciousness of life long learning, and attend the programs, vocational in-service activities and workshops in order to improve them
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P06	Use laboratory tools and gadgets according to the rules and techniques, make them work with the most efficiency by controlling and maintaining.
P05	Have theoretical and practical skills about the preparation of solutions for the tests to be made in laboratory.
P04	Apply basic tests in various fields of medical laboratory, prepare analysis solutions.

Assessment		
In-Term Studies	Quantity	Percentage
Mid-terms	1	%40
Quizzes	0	%0
Assignment	0	%0
Attendance	14	%70
Practice	0	%0
Project	0	%0
Final examination	1	%60
<b>Total</b>		<b>%170</b>

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	8	8	64
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
<b>Total Work Load</b>			<b>94</b>
<b>ECTS Credit of the Course</b>			<b>3</b>

Course Contribution To Program												
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant												

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12
C01	4	4	3	3	5	4	5	4	3	4	4	4
C02	4	4	3	3	5	4	5	4	3	4	5	5
C03	4	4	3	3	4	4	5	4	3	4	5	4
C04	4	4	3	3	4	3	5	4	3	4	5	4
C05	4	4	3	3	3	3	5	4	3	4	4	4
C06	4	4	3	3	3	3	5	4	3	4	4	4





## Siirt University

SCHOOL OF HEALTH SERVICES  
Tıbbi Laboratuvar Teknikleri

TUR 101		TÜRK DİLİ-I			
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	TUR 101	TÜRK DİLİ-I	2	2	2

### Language of Instruction:

Türkçe

### Course Level:

Associate

### Work Placement(s):

No

### Department / Program:

Tıbbi Laboratuvar Teknikleri

### Course Type:

Zorunlu

### Goals:

The aim of this lesson is; to emphasize the place and importance of the Turkish language in world languages to present the historical development and current situation of the Turkish language; to introduce students; to general properties and structure of the Turkish language; to develop students analytic, scientific thinking and communication skills.

### Teaching Methods and Techniques:

Description and features of language, languages of the world, Position of Turkish among other languages, historical development of Turkish, development of western Turkish, Atatürk's ideas and projects on Turkish, pronunciation and punctuation, language policies.

### Prerequisites:

### Course Coordinator:

### Instructors:

Instructor Yılmaz AKDEMİR

### Assistants:

### Recommended Sources

Textbook	:	
Resources	:	Tuncer Gülensoy, Türkçe El Kitabı, Akçağ Yayınları, Ankara 2000 Zeynep Korkmaz vd. Türk Dili ve Kompozisyon Bilgileri, YÖK, Ankara 2000.
Documents	:	
Assignments	:	
Exams	:	

### Course Category

Mathematics and Basic Sciences	:		Education	:	
Engineering	:		Science	:	
Engineering Design	:		Health	:	
Social Sciences	:	30	Field	:	70

### Course Content

Week	Topics	Study Materials	Materials
1	Aims and objectives of the course, content, materials and introduction of the semester curriculum.		
2	What is language? What are the features of language?		
3	Theories of the birth of languages and language types.		
4	Language-culture relation		
5	World languages and the place of Turkish among them.		
6	Historic phases of the Turkish Language		
7	What is grammar? Subjects and chapters of grammar.		
8	What is grammar? Subjects and chapters of grammar.		
9	Classification of sounds in Turkish, sound features of Turkish		
10	Sound actions, syllable structures and intonation in Turkish		
11	Inflectional and derivational suffixes in Turkish		
12	Parts of speech (nouns, adjectives, adverbs, pronouns)		
13	Parts of speech (verbs, conjunctions, prepositions, exclamations)		
14	Sentence elements and types		

### Course Learning Outcomes

No	Learning Outcomes
C01	Using Turkish accurately and well.
C02	Developing language understanding by pointing out the language culture-society connection
C03	Examining the current place and condition of the Turkish language among world languages and spread areas.
C04	Application of the features, functions and rules of the Turkish Language with examples.
C05	Using the Turkish versions of the professional and scientific field terms.
C06	Analyzing the Turkish Language
C07	Scientific contribution to the Turkish Language and Literature.
C08	Comparison of the past and the present of the Turkish Language.

### Program Learning Outcomes

No	Learning Outcome
P09	Communicate effectively with their colleagues, patients, doctors and other health care workers by considering the professional and ethic values related to their field.
P08	Take safety precautions in medical laboratory, apply personal safety rules, and create safe laboratory environment.
P07	Make work organizations in medical laboratory, take personal responsibility when needed during performing the tasks with the consciousness of team work.
P12	Update their knowledge, skills and faculties of the field with the consciousness of life long learning, and attend the programs, vocational in-service activities and workshops in order to improve them
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P03	Perform pre-analysis preparation processes, prepare preparatives, apply disinfection and sterilization techniques.
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P06	Use laboratory tools and gadgets according to the rules and techniques, make them work with the most efficiency by controlling and maintaining.
P05	Have theoretical and practical skills about the preparation of solutions for the tests to be made in laboratory.
P04	Apply basic tests in various fields of medical laboratory, prepare analysis solutions.

Assessment		
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
<b>Total</b>		<b>%100</b>

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	1	1
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	1	1
<b>Total Work Load</b>			<b>60</b>
<b>ECTS Credit of the Course</b>			<b>2</b>

Course Contribution To Program													
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Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12
C01	1	2	3	2	5	4	3	1	2	3	3	3
C02	1	2	5	3	1	3	1	2	3	1	3	3
C03	1	2	3	4	5	2	1	2	3	1	3	3
C04	3	1	2	3	1	3	2	1	3	1	3	3
C05	3	1	3	3	1	3	3	3	3	1	3	3
C06	2	1	2	3	1	2	3	1	2	3	3	3
C07	1	2	3	2	1	1	2	3	2	1	3	3
C08	2	3	3	2	1	2	2	3	2	5	3	3



# Siirt University

SCHOOL OF HEALTH SERVICES  
Tıbbi Laboratuvar Teknikleri

YD 101 YABANCI DİL-I					
Semester	Course Code	Course Name	L+P	Credit	ECTS
1	YD 101	YABANCI DİL-I	2	2	2

### Language of Instruction:

Türkçe

### Course Level:

Associate

### Work Placement(s):

No

### Department / Program:

Tıbbi Laboratuvar Teknikleri

### Course Type:

Zorunlu

### Goals:

Students will have a sufficient level ("European Language Portfolio Global Scale ", Level B1) have knowledge of foreign languages - Understands short and clear messages - Short, daily comprehend texts - Simple, participate in daily conversation - Plain language to talk about their own and the environment - Short, simple notes and messages to summer

### Teaching Methods and Techniques:

1: Lecture, 2: Question-Answer, 3: Drill and Practice, 4: Individual Study

### Prerequisites:

### Course Coordinator:

### Instructors:

Instructor Recep ÖZTAŞ

### Assistants:

### Recommended Sources

<b>Textbook</b>	:	1st Week: Expressions for meeting new people and asking
<b>Resources</b>	:	how they are; introducing yourself telling your
<b>Documents</b>	:	name, occupation, nationality and other piece of
<b>Assignments</b>	:	information; introducing others and asking
<b>Exams</b>	:	questions about things
	:	2nd Week: How to form commands and make requests: how to

### Course Category

<b>Mathematics and Basic Sciences</b>	:	<b>Education</b>	:
<b>Engineering</b>	:	<b>Science</b>	:
<b>Engineering Design</b>	:	<b>Health</b>	:
<b>Social Sciences</b>	:	<b>Field</b>	: 100

### Course Content

Week	Topics	Study Materials	Materials
1	Introduction to the English language		
2	"Am/Is/are": The verb to be is introduced in all persons, singular and plural		
3	The possessive 's		
4	Members of the family (father, aunt, etc.)		
5	The Present Simple Tense part 1		
6	Jobs and their definitions, Simple present tense part 2		
7	Jobs and their definitions 2		
8	Where are you from? Adverbs of frequency: always, sometimes, never etc		
9	There is and there are structures This, that, these, those		
10	Where do you live? A living room, a kitchen, their classroom, and where they live themselves		
11	can, can't / statements, questions, negatives		
12	Vocabulary and pronunciation was/were, and could/couldn't. How much...?		
13	The Past Simple Tense Regular and irregular forms of the verbs		
14	The past forms of the verb TO BE was, were		

### Course Learning Outcomes

No	Learning Outcomes
C01	to be able to distinguish and use given tenses with the help of keywords
C02	To be able to form positive- negative sentences and questions in different tenses
C03	To be able to reorder mixed items in a sentence according to English sentence structure
C04	To be able to form dialogues in basic subjects
C05	To be able to learn new vocabulary
C06	To be able to comprehend the reading material in sentence, paragraph and textual level with increasing vocabulary

### Program Learning Outcomes

No	Learning Outcome
P09	Communicate effectively with their colleagues, patients, doctors and other health care workers by considering the professional and ethic values related to their field.
P08	Take safety precautions in medical laboratory, apply personal safety rules, and create safe laboratory environment.
P07	Make work organizations in medical laboratory, take personal responsibility when needed during performing the tasks with the consciousness of team work.
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P05	Have theoretical and practical skills about the preparation of solutions for the tests to be made in laboratory.
P04	Apply basic tests in various fields of medical laboratory, prepare analysis solutions.

Assessment		
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
<b>Total</b>		<b>%100</b>

ECTS Allocated Based on Student Workload			
Activities	Quantity	Duration	Total Work Load
Course Duration	14	2	28
Hours for off-the-c.r.stud	0	0	0
Assignments	0	0	0
Presentation	0	0	0
Mid-terms	1	9	9
Practice	0	0	0
Laboratory	0	0	0
Project	0	0	0
Final examination	1	18	18
<b>Total Work Load</b>			<b>55</b>
<b>ECTS Credit of the Course</b>			<b>2</b>

Course Contribution To Program
Contribution: 1: Very Slight 2:Slight 3:Moderate 4:Significant 5:Very Significant
