



**AYDIN ADNAN MENDERES UNIVERSITY**  
**AYDIN VOCATIONAL SCHOOL OF HEALTH SERVICES**  
**MEDICAL SERVICES AND TECHNIQUES**  
**MEDICAL LABORATORY TECHNIQUES**  
**COURSE INFORMATION FORM**

Course Title	Use of Computers in Hospitals								
Course Code	TS307			Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	76 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To give knowledge about IT systems, Patient entry records,								
Course Content	Entering the patient tests to the programme, Knowledge about medical registration systems								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration								
Name of Lecturer(s)	Bekir KÖSEDAĞ								

#### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

#### Recommended or Required Reading

1	Muzaffer Soysal, Hastanelerde Bilgisayar Kullanımı, MPM Yayınları, Ankara
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Week	Weekly Detailed Course Contents	
1	Theoretical	What is an IT system? Relations between medical recording systems.
2	Theoretical	IT programmes and features
3	Theoretical	Patient files in IT programmes
4	Theoretical	In-patient recordings in IT programmes
5	Theoretical	Information – Information systems in medical institutions
6	Theoretical	Medical information systems
7	Theoretical	Hospital information systems
8	Intermediate Exam	vize
9	Theoretical	Electronic Medical Recordings System
10	Theoretical	Primary fields of application in Hospital automation systems
11	Theoretical	Hospital IT systems
12	Theoretical	World Health Organization statistic data analysis
13	Theoretical	IT system survey in ADU Hospital
14	Theoretical	IT system survey in Aydin directorate of health

#### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Term Project	2	5	3	16
Midterm Examination	1	1	1	2
Final Examination	1	1	1	2
Total Workload (Hours)				76
[Total Workload (Hours) / 25*] = ECTS				3

\*25 hour workload is accepted as 1 ECTS

#### Learning Outcomes

1	Computer Systems and Medical Systems used in medicine recognition
2	Create patient database.
3	To be able to use hospital automation systems.
4	To be able to automate medical laboratories.



5	To learn patient monitoring systems.
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**Programme Outcomes (Medical Laboratory Techniques)**

1	To be able to have sufficient back ground in medical laboratory techniques and medical laboratory branches (biochemistry, microbiology, parasitology, sitogenetiketc.);the ability to use theoretical and practical knowledge in these fields.
2	To be able to have the basic theoretical and practical knowledgeand other resources have been supported applications and tools based on secondary-level qualifications gained in the field of Medical Laboratory Techniques Program to-date text boks containing formations
3	To be able to have basic knowledge about structure and function of systems in human, to analyse these data on tissue, cell and diseases.
4	To be able to analyse the medical samples necessary for physicians by using tools, equipment and techniques at the diagnostic and the rapeutic laboratories of health agencies and evaluate the data.
5	To be able to use the medical laboratoy tools and equipments according to rules and technics, and make controls and maintenance of them
6	To be able to perform basic tests of related different medical laboratories, prepare solutions.
7	To be able to perform proper sample collection and transport procedures for the medical laboratory tests from the patient.
8	To be able to perform preanalytical sample preparation procedure, prepare inspection preparations, perform disinfection and sterilization
9	To be able to interpret and evaluate data, define and analyze problems, develop solutions based on research and proofs by using acquired basic knowledge and skills with in the field.
10	To be able to have knowledge about work organization and carry out related practice in medical laboratories
11	To be able to carry out laboratory safety protocols, take individual safety precaution and create safe laboratory environment.
12	To be able to gain the ability to apply by viewing and evaluating the processes related to his/her fields in public and private sector.
13	To be able to gain the awareness of the necessity of life long learning, ability to follow developments in science and technology and self-renewal.
14	To be able to help laboratory experts and medical scientists for their researches
15	To be able to be aware of individual and public health, environmental protection and job security issues, under standing the basic level of the relationship.
16	To be able to grasp principles of Atatürk and there volutions, to ensurenational, ethical, spiritual and cultural values, to adopt to universal and contemporary developments
17	To be able to communicate efficiently for medical service and speak Turkish efficiently.
18	To be able to communicate in English at basic level, utilize foreign language on occupational practice

**Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High**

	L1	L2	L3	L4	L5
P13	4	4	4	4	4
P14	5	5	5	5	5

