



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

Course Title	Virology								
Course Code	TL110			Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	52 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Getting information about the general characteristics of viruses, their structure, antigenic properties, production, diagnostic methods and treatment.								
Course Content	Structural properties of viruses, replication, infections, methods used in the diagnosis of these infections and ways of prevention and treatment will be discussed.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	1.Genel Viroloji, Şemsettin ustaçelebi, Pelikan yayınları, 2008

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to virology and the definition of virology
2	Theoretical	The history of viruses and virology
3	Theoretical	Classification of viruses
4	Theoretical	Structural features of viruses
5	Theoretical	Analysing techniques of virus structures
6	Theoretical	Replication Strategies of viruses
7	Theoretical	Virus production techniques
8	Intermediate Exam	Mid-term exam
9	Theoretical	Virus genetics
10	Theoretical	Virus genetics
11	Theoretical	Diagnostic methods of viral infections
12	Theoretical	Diagnostic methods of viral infections
13	Theoretical	Diagnostic methods of viral infections
14	Theoretical	Prevention and treatment of viral infections
15	Theoretical	Prevention and treatment of viral infections

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Assignment	2	2	1	6
Midterm Examination	1	1	1	2
Final Examination	1	1	1	2
Total Workload (Hours)				52
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes	
1	Describes the general characteristics of viruses.
2	Lists DNA and RNA viruses.
3	Lists the methods used in the diagnosis of viruses.



4	Describes ways of protection from viral infection.
5	Be able to define the laboratory diagnosis of viral infections.

### 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, sitogenetik etc.); the ability to use theoretical and practical knowledge in these fields.
2	To be able to have the basic theoretical and practical knowledge and 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 books 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 therapeutic laboratories of health agencies and evaluate the data.
5	To be able to use the medical laboratory tools and equipments according to rules and techniques, 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, understanding the basic level of the relationship.
16	To be able to grasp principles of Atatürk and their evolutions, to ensure national, 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
P1	5	5	5	5	5
P2	5	5	5	5	5
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	5	5	5	5	5
P6	5	5	5	5	5
P7	5	5	5	5	5
P8	5	5	5	5	5
P10	5	5	5	5	5
P11	5	5	5	5	5
P14	5	5	5	5	5

