AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Antibiotic Usage Policies and Infection Control								
Course Code	HEK525		Couse Level	Second Cycle (Master's Degree)					
ECTS Credit	4	Workload	98 *(Hours)*	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	Having detailed knowledge about antibiotics and applying rational antibiotic usage principles								
Course Content	Types of antibiotic and antimicrobial drugs: selective toxicity, classification and mechanisms; Antibiotic resistance: description, types and problems; Antibiotic resistant pathogens; Antibiotic efficacy, rational antibiotic use; The use of antibiotics in opportunistic infections								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Case Study								
Name of Lecturer(s)	Lec. Selcen ÖNCÜ								

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

Recommended or Required Reading	
1	Antibiotics and Antibiotic Resistance by Ola Skold

Week	Weekly Detailed Course Contents	
1	Theoretical	Types of antibiotic and antimicrobial drugs
2	Theoretical	Classification of antibiotics and effect mechanisms
3	Theoretical	Antibiotics that inhibit cell wall synthesis
4	Theoretical	Antibiotics acting on cytoplasmic membrane
5	Theoretical	Antibiotics inhibiting protein synthesis
6	Theoretical	Antibiotics effective against bacterial genome
7	Theoretical	Antiviral agents
8	Intermediate Exam	Midterm exam
9	Theoretical	Antifungal agents
10	Theoretical	Rational antibiotic use
11	Theoretical	Antibiotic resistance and mechanisms
12	Theoretical	Antibiotic susceptibility tests
13	Theoretical	Side effects and monitoring of antibiotics
14	Theoretical	Use of antibiotics in resistant microorganisms
15	Theoretical	Final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	1	2	39
Lecture - Practice	13	1	2	39
Midterm Examination	1	9	1	10
Board Examination	1	9	1	10
			Total Workload (Hours)	98
			[Total Workload (Hours) / 25*] = **ECTS**	4
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Having knowledge about antibiotics, uses, side effects
2	To know and apply rational antibiotic usage principles
3	To know the classification of antibiotics

4	To have knowledge about the mechanism of action of antibiotics
5	To have knowledge about the side effects of antibiotics

Programme Outcomes *(Hospital Infection Control Interdisciplinary Master)*	
1	Being knowledgeable in the field of hospital infection control and related scientific fields
2	To be able to use knowledge learned in hospital infection control research area and related science fields
3	Being knowledgeable about the methods and applications used in the field of hospital infection control
4	To be aware of the legal practices and details of hospital infection control
5	To be able to develop different strategies for hospital infection control
6	Designing and implementing trainings to inform the health personnel and the public in the field of hospital infection control and evaluating the results
7	To follow current researches in the field of hospital infection control and make critical evaluations
8	To be able to do team work in the field of hospital infection control, to work together with different disciplines to develop common strategies
9	To contribute to the solution of social, scientific, cultural and ethical problems in the field of hospital infection control and to support the development of these values
10	Being able to develop research and learning awareness throughout life and to keep information up-to-date

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
P9	5	5	5	5	5
P10	5	5	5	5	5