

COURSE INFORMATION					
Course Title	Code	Semester	Lecture+Practice+Labrotory Hour	Credits	ECTS
Infectious Diseases and Clinical Microbiology (Clinical Clerkship)	MED 514	5/9-10	30+24	3	3*

* ECTS credits are the university credits of the courses in Yeditepe University, Faculty of Medicine, Undergraduate Medical Education Program

Prerequisites	The student that joins this course, should have at least the Phase 5 knowledge level in medical faculty.
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Language of Instruction	English																														
Course Level	Second-cycle higher education (i.e. QF-EHEA-2, EQF-LLL-7, TYYÇ-7) with Master's Degree/ "Regulated Professions" legislation by EU 2005/36/EC Directive																														
Course Type	Compulsory																														
Course Coordinator	Sibel Bolukçu, MD.																														
The instructors	Meral Sönmezoğlu, MD. Prof. Sibel Bolukçu, MD. Aynur Eren Topkaya, MD. Prof. Serpil Erol, MD Prof																														
Assistants	-																														
Goals	In this internship, it is aimed to gain knowledge and skills about the symptoms and clinical findings of infectious diseases, diagnosis, treatment and prevention measures, and patient management.																														
Content	<p>For further details please see Academic Program Book of Phase V at http://med.yeditepe.edu.tr/sites/default/files/phase_5_0.pdf</p> <table border="1"> <thead> <tr> <th></th> <th>Day 1</th> <th>Day 2</th> <th>Day 3</th> <th>Day 4</th> <th>Day 5</th> </tr> </thead> <tbody> <tr> <td>09.00-11.50</td> <td>Clinical Experience (Outpatient) Serpil Erol Clinical Experience (Inpatient) Serpil Erol</td> <td>Clinical Experience (Outpatient) Serpil Erol Clinical Experience (Inpatient) Serpil Erol</td> <td>Laboratory Experience Microbiology Instructors (Group I) Clinical Experience (Inpatient) Serpil Erol (Rest of the Group)</td> <td>Laboratory Experience Microbiology Instructors (Group II) Clinical Experience (Inpatient) Serpil Erol (Rest of the Group)</td> <td>Laboratory Experience Microbiology Instructors (Group III) Clinical Experience (Inpatient) Serpil Erol (Rest of the Group)</td> </tr> <tr> <td>12.00-12.50</td> <td>Lunch</td> <td>Lunch</td> <td>Lunch</td> <td>Lunch</td> <td>Lunch</td> </tr> <tr> <td>13.00-13.50</td> <td>Lecture Introductory Session (Introduction to Idcm) Sibel Bolukçu</td> <td>Lecture Antibiotics and Rational Use of Antibiotics Sibel Bolukçu</td> <td>Lecture Specimen Selection, Collection and Processing in Clinical Microbiology Tests Aynur Eren Topkaya</td> <td>Lecture Sepsis Meral Sönmezoğlu</td> <td>Lecture Crimean Congo Hemorrhagic Fever Sibel Bolukçu</td> </tr> <tr> <td>14.00-14.50</td> <td>Lecture Central Nervous System Infections Sibel Bolukçu</td> <td>Lecture Gastrointestinal Tract Infections Sibel Bolukçu</td> <td>Lecture Direct and Indirect Test Methods in Clinical Microbiology Aynur Eren Topkaya</td> <td>Lecture Skin and Soft Tissue Infections Sibel Bolukçu</td> <td>Lecture Acute Viral Hepatitis Meral Sönmezoğlu</td> </tr> </tbody> </table>		Day 1	Day 2	Day 3	Day 4	Day 5	09.00-11.50	Clinical Experience (Outpatient) Serpil Erol Clinical Experience (Inpatient) Serpil Erol	Clinical Experience (Outpatient) Serpil Erol Clinical Experience (Inpatient) Serpil Erol	Laboratory Experience Microbiology Instructors (Group I) Clinical Experience (Inpatient) Serpil Erol (Rest of the Group)	Laboratory Experience Microbiology Instructors (Group II) Clinical Experience (Inpatient) Serpil Erol (Rest of the Group)	Laboratory Experience Microbiology Instructors (Group III) Clinical Experience (Inpatient) Serpil Erol (Rest of the Group)	12.00-12.50	Lunch	Lunch	Lunch	Lunch	Lunch	13.00-13.50	Lecture Introductory Session (Introduction to Idcm) Sibel Bolukçu	Lecture Antibiotics and Rational Use of Antibiotics Sibel Bolukçu	Lecture Specimen Selection, Collection and Processing in Clinical Microbiology Tests Aynur Eren Topkaya	Lecture Sepsis Meral Sönmezoğlu	Lecture Crimean Congo Hemorrhagic Fever Sibel Bolukçu	14.00-14.50	Lecture Central Nervous System Infections Sibel Bolukçu	Lecture Gastrointestinal Tract Infections Sibel Bolukçu	Lecture Direct and Indirect Test Methods in Clinical Microbiology Aynur Eren Topkaya	Lecture Skin and Soft Tissue Infections Sibel Bolukçu	Lecture Acute Viral Hepatitis Meral Sönmezoğlu
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15.00-15.50	Lecture HIV Infection and AIDS Sibel Bolukçu	Lecture Health Care Associated Infections Sibel Bolukçu	Lecture Antimicrobial Resistance Aynur Eren Topkaya	Lecture Infective Endocarditis Meral Sönmezoğlu	Lecture Sterilization, Disinfection and Antisepsis Sibel Bolukçu
16.00-16.50	Lecture Brucellosis Sibel Bolukçu	Lecture Fever of Unknown Origin Sibel Bolukçu	Independent Learning	Independent Learning	Independent Learning
17.00-18.00	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning
	Day 6	Day 7	Day 8	Day 9	Day 10
09.00-11.50	Laboratory Experience Microbiology Instructors (Group IV) Clinical Experience (Inpatient) Serpil Erol (Rest of the Group)	Clinical Experience (Outpatient) Serpil Erol Clinical Experience (Inpatient) Serpil Erol	Clinical Experience (Outpatient) Serpil Erol Clinical Experience (Inpatient) Serpil Erol	Clinical Experience (Outpatient) Serpil Erol Clinical Experience (Inpatient) Serpil Erol	Assessment Session
12.00-12.50	Lunch	Lunch	Lunch	Lunch	Lunch
13.00-13.50	Lecture Upper Respiratory Tract Infections Sibel Bolukçu	Lecture Urinary Tract Infections Sibel Bolukçu	Lecture Viral Exanthems Sibel Bolukçu	Lecture Case Presentations Sibel Bolukçu	Program Evaluation Session Review of The Exam Questions, Evaluation of the Clerkship Program Head of the Department
14.00-14.50	Lecture Lower Respiratory Tract Infections Sibel Bolukçu	Lecture Infections in Elderly Sibel Bolukçu	Lecture Tuberculosis Meral Sönmezoğlu	Lecture Case Presentations Sibel Bolukçu	
15.00-15.50	Lecture Immunization and Prophylaxis Sibel Bolukçu	Lecture Infections in immunocompromised Patients Sibel Bolukçu	Lecture Case Presentations Sibel Bolukçu	Lecture Case Presentations Sibel Bolukçu	
16.00-16.50	Lecture Parasitic Infections Sibel Bolukçu	Independent Learning	Independent Learning	Independent Learning	
17.00-17.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	
*If there is an unexpected condition, other learning methods/tools (e.g. videos, PowerPoint presentations, etc.) will be used.					

Learning Outcomes <i>At the end of this term, the student should be able to:</i>	Program Learning Outcomes	Teaching Methods	Assessment Methods
1. Describe required approach to patients with infectious diseases including evaluation of microbiological test results	1.1.2, 1.1.9	1,2,3	A,B

2. Solve epidemiology, diagnosis and differential diagnosis of infectious diseases endemic in our country and/or in world.	1.1.3	1,2,3	A,B
3. Explain infectious disease emergencies, diagnosis and approach to treatment modalities, antibiotic usage rationale, and basic antibiotic usage guidelines.	1.1.7	1,2,3	A,B
4. Save clinical history from infectious disease patients.	1.1.6	1,2,3	A,B
5. Perform physical examination	1.1.4	1,2,3	A,B
6. Follow requesting and analyzing diagnostic tests in light of signs and symptoms of patients; both on inpatient and outpatient clinical settings	1.1.4	1,2,3	A,B
7. Perform nonspecific tests used in diagnosis of infectious diseases (white blood cell counting, blood smear examination, urine sample microscopy, etc.) and examine patient samples microbiologically (for presence of bacteria, parasites, blood cells, etc.)	1.1.8	1,2,3	A,B
8. examine patient samples microbiologically (for presence of bacteria, parasites, blood cells, etc.)	1.1.8	1,2,3	A,B
9. Prescribe treatment of patients.	1.1.2,1.1.9	1,2,3	A,B
10. Obey confidentiality of patients	2.2.1, 2.5.4	1,2,3	A,B

Teaching Methods: 1: Lecture, 2: Question-Answer, 3: Discussion

Assessment Methods: A: Testing B: Presentation

COURSE CONTENT

Week	Topics	Study Materials
1	Introductory Session (Introduction to IDCM)	Materials for the course provided by the the instructor
1	Lecture Central Nervous System Infections	Materials for the course provided by the instructor
1	Lecture HIV Infection and AIDS	Materials for the course provided by the instructor
1	Lecture Brucellosis	Materials for the course provided by the instructor

1 Lecture Antibiotics and Rational Use of Antibiotics	Materials for the course provided by the instructor
1 Lecture Gastrointestinal Tract Infections	Materials for the course provided by the instructor
1 Lecture Health Care Associated Infections	Materials for the course provided by the instructor
1 Lecture Fever of Unknown Origin	Materials for the course provided by the instructor
1 Lecture Specimen Selection, Collection and Processing in Clinical Microbiology Tests	Materials for the course provided by the instructor
1 Lecture Direct and Indirect Test Methods in Clinical Microbiology	Materials for the course provided by the instructor
1 Lecture Antimicrobial Resistance	Materials for the course provided by the instructor
1 Lecture Sepsis	Materials for the course provided by the instructor
1 Lecture Skin and Soft Tissue Infections	Materials for the course provided by the instructor
1 Lecture Infective Endocarditis	Materials for the course provided by the instructor
1 Lecture Crimean Congo Hemorrhagic Fever	Materials for the course provided by the instructor
1 Lecture Acute Viral Hepatitis	Materials for the course provided by the instructor
1 Lecture Sterilization, Disinfection and Antisepsis	Materials for the course provided by the instructor
1 Lecture Upper Respiratory Tract Infections	Materials for the course provided by the instructor
1 Lecture Lower Respiratory Tract Infections	Materials for the course provided by the instructor
1 Lecture Immunization and Prophylaxis	Materials for the course provided by the instructor
1 Lecture Parasitic Infections	Materials for the course provided by the instructor
1 Lecture Urinary Tract Infections	Materials for the course provided by the instructor
1 Lecture Infections in Elderly	Materials for the course provided by the instructor
1 Lecture Infections in immunocompromised Patients	Materials for the course provided by the instructor
1 Lecture Viral Exanthems	Materials for the course provided by the instructor
1 Lecture Tuberculosis	Materials for the course provided by the instructor
1 Lecture Case Presentations	Materials for the course provided by the instructor
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2 Microbiology Instructors(Group I)	Materials for the course provided by the instructor

2	Microbiology Instructors(Group II)	Materials for the course provided by the instructor
2	Microbiology Instructors(Group III)	Materials for the course provided by the instructor
2	Microbiology Instructors(Group IV)	Materials for the course provided by the instructor
2	Program Evaluation Session Review of the Exam Questions, Evaluation of the Program	Materials for the course provided by the instructor

RECOMMENDED SOURCES	
Textbook	1- Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases 2- Koneman's Color Atlas and Textbook of Diagnostic Microbiology
Additional Resources	Lecture notes

MATERIAL SHARING	
Documents	Photocopy shareable.
Exams	Not shareable

ASSESSMENT		
Questions Types (Pencil-Paper Tests)	Proportion (in Pass/Fail Decision)	Questions Types (Pencil-Paper Tests)
Multiple Choice Questions	%60	Multiple Choice Questions
Extended Matching Questions	%20	
Key Features	%20	
Total	%100	Total
Other Assessment Methods and Tools	Proportion (in Pass/Fail Decision)	Other Assessment Methods and Tools
Structured Oral Exam (SOE)	%85	Evaluation of Student's Seminar (Without Checklist)
Evaluation of Case Presentation (Without Checklist)	%5	
Evaluation of Preparation Skills of Patient's File (Without Checklist)	%5	
Global Evaluation of Student's Performance (Without Checklist)	%5	
	Total %100	Total
Pass/Fail Decision	Proportion (in Pass/Fail Decision)	Pass/Fail Decision

Pencil-Paper Tests	%60	Pencil-Paper Tests
Other Assessment Methods and Tools	%40	Other Assessment Methods and Tools
	Total %100	Total

COURSE CATEGORY	Compulsory
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COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution				
		1	2	3	4	5
1.1.2	employs a patient-centered approach in patient management.					x
1.1.3	recognizes most frequently occurring or significant clinical complaints, symptoms, signs, findings and their emergence mechanisms in clinical conditions.					x
1.1.5	does general and focused physical and mental examination.					x
1.1.6	interprets findings in medical history, physical and mental examination.					x
1.1.7	employs diagnostic procedures that are used frequently at the primary health care level.				x	
1.1.9	makes clinical decisions using evidence-based systematic data in health care service.					x
1.1.12	keeps medical records in health care provision and uses information systems to that aim.					x
1.2.1	throughout his/her career, communicates effectively with health care beneficiaries, co-workers, accompanying persons, visitors, patient's relatives, care givers, colleagues, other individuals, organizations and institutions.				x	
1.2.2	collaborates as a team member with related organizations and institutions, with other professionals and health care workers, on issues related to health.					x
1.2.3	recognizes the protection and privacy policy for health care beneficiaries, co-workers, accompanying persons and visitors.					x
1.2.4	communicates with all stakeholders taking into consideration the socio-cultural diversity.					x
2.1.1	performs medical practices in accordance with the legal framework which regulates the primary health care service.					x
2.2.1	recognizes basic ethical principles completely, and distinguishes ethical and legal problems.					x
2.2.2	pays importance to the rights of patient, patient's relatives and physicians, and provides services in this context.					x
2.5.2	displays a patient-centered and holistic (biopsychosocial) approach to patients and their problems.					x

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
Activities	Quantity/ day	Duration (Hour)	Total Workload (Hour)
Course Duration (2 week)	10	5.5	55

Hours for off-the-classroom study (Pre-study, practice, review/week)	10	2	20
Homework	-	-	-
Exam	1	1	1
Total Work Load			76
Total Work Load / 30 (h)			2.53
ECTS Credit of the Course			3