

COURSE INFORMATION						
Course Title	Code	Semester	Lecture+Practice+Labrotory Hour	Credits	ECTS	
Infectious Diseases and Clinical Microbiology (Clinical Clerkship)	MED 514	Phase 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 completed Phase 1, 2, 3 and 4 courses of medical faculty.
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Language of Instruction	English
Course Level	Second Cycle including First Cycle Degree (One Tier Programme)
Course Type	Compulsory
Course Coordinator	Meral Sönmezoğlu, MD. Prof.
The instructors	Meral Sönmezoğlu, MD. Prof. 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	

Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
<i>At the end of clerkship, the student should be able to:</i>			
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
1 Lecture Case Presentations	Materials for the course provided by the instructor
1 Lecture Case Presentations	Materials for the course provided by the instructor
1 Lecture Case Presentations	Materials for the course provided by the instructor
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

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

MATERIAL SHARING	
Documents	Photocopy shareable.
Exams	Not shareable

COURSE CATEGORY Expertise/Field Courses

COURSE'S CONTRIBUTION TO PROGRAM						
	PODG.1. Basic Professional Competencies	Contribution				
	POD.1.1. Clinical Competencies	1	2	3	4	5
PO.1.1.1.	values preventive health services, offers primary prevention (i.e. prevention of diseases for the protection of health), secondary prevention (i.e. early diagnosis and treatment) tertiary prevention (i.e. rehabilitation) and quaternary prevention (i.e. prevention of excessive and unnecessary diagnosis and treatment) services, provides consultancy on these issues.					
PO.1.1.2.	employs a patient-centered approach in patient management.					X
PO.1.1.3.	recognizes most frequently occurring or significant clinical complaints, symptoms, signs, findings and their emergence mechanisms in clinical conditions.					X
PO.1.1.4.	takes medical history from the applicant himself/herself or from the individual's companions.					
PO.1.1.5.	does general and focused physical and mental examination.					X
PO.1.1.6.	interprets findings in medical history, physical and mental examination.					X
PO.1.1.7.	employs diagnostic procedures that are used frequently at the primary health care level.				X	
PO.1.1.8.	selects tests that have evidence-based high efficacy at the primary health care level and interprets results.					
PO.1.1.9.	makes clinical decisions using evidence-based systematic data in health care service.					X
PO.1.1.10.	performs medical interventional procedures that are used frequently at the primary health care level.					
PO.1.1.11.	manages healthy individuals and patients in the context of health care services.					
PO.1.1.12.	keeps medical records in health care provision and uses information systems to that aim.					X
	POD.1.2. Competencies related to Communication					
PO.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	
PO.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
PO.1.2.3.	recognizes the protection and privacy policy for health care beneficiaries, co-workers, accompanying persons and visitors.					X
PO.1.2.4.	communicates with all stakeholders taking into consideration the socio-cultural diversity.					X
	POD.1.3. Competencies Related to Leadership and Management					
PO.1.3.1.	manages and leads within the health care team in primary health care organization.					
PO.1.3.2.	recognizes the principles of health management and health sector economy, models of organization and financing of health care services.					
PO.1.3.3.	recognizes the resources in the health care service, the principles for cost-effective use.					
	POD.1.4. Competencies related to Health Advocacy					

PO.1.4.1.	recognizes the health status of the individual and the community and the factors affecting the health, implements the necessary measures to prevent effects of these factors on the health.					
PO.1.4.2.	recognizes and manages the health determinants including conditions that prevent access to health care.					
	POD.1.5. Competencies related to Research					
PO.1.5.1.	develops, prepares and presents research projects					
	POD.1.6. Competencies related to Health Education and Counseling					
PO.1.6.1.	provides consultancy services and organizes health education for the community to sustain and promote the health of individual and community.					
	POD.G.2. Professional Values and Perspectives					
	POD.2.1. Competencies related to Law and Legal Regulations					
PO.2.1.1.	performs medical practices in accordance with the legal framework which regulates the primary health care service.					X
	POD.2.2. Competencies Related to Ethical Aspects of Medicine					
PO.2.2.1.	recognizes basic ethical principles completely, and distinguishes ethical and legal problems.					X
PO.2.2.2.	pays importance to the rights of patient, patient's relatives and physicians, and provides services in this context.					X
	POD.2.3. Competencies Related to Social and Behavioral Sciences					
PO.2.3.1.	relates historical, anthropological and philosophical evolution of medicine, with the current medical practice.					
PO.2.3.2.	recognizes the individual's behavior and attitudes and factors that determine the social dynamics of the community.					
	POD.2.4. Competencies Related to Social Awareness and Participation					
PO.2.4.1.	leads community with sense of responsibility, behavior and attitudes in consideration of individual behaviors and social dynamics of the community, and if there is a necessity, develops projects directed towards health care services.					
	POD.2.5. Competencies Related to Professional Attitudes and Behaviors					
PO.2.5.1.	displays a patient-centered and holistic (biopsychosocial) approach to patients and their problems.					
PO.2.5.2.	respects patients, colleagues and all stakeholders in health care delivery.					X
PO.2.5.3.	displays the proper behavior in case of disadvantaged groups and situations in the community.					
PO.2.5.4.	takes responsibility for the development of patient safety and healthcare quality.					
PO.2.5.5.	evaluates own performance as open to criticism, realizes the qualifications and limitations.					
	POD.G.3. Professional Development and Self-Worth					
	POD.G.3.1. Personal Development and Values					
PO.3.1.1.	embraces the importance of lifelong self-learning and implements .					

PO.3.1.2.	embraces the importance of updating knowledge and skills; searches current advancements and improves own knowledge and skills.					
PO.3.1.3.	uses English language at least at a level adequate to follow the international literature and to establish communication related to the profession.					
POD.3.2. Competencies Related to Career Management						
PO.3.2.1.	recognizes and investigates postgraduate work domains and job opportunities.					
PO.3.2.2.	recognizes the application requirements to postgraduate work/job domains, and distinguishes and plans any requirement for further training and work experience.					
PO.3.2.3.	prepares a resume, and recognizes job interview methods.					
POD.3.3. Competencies Related to Protection and Development of Own Physical and Mental Health						
PO.3.3.1.	implements the rules of healthy living.					
PO.3.3.2.	displays appropriate behavior specific to work under stressful conditions.					
PO.3.3.3.	uses self-motivation factors.					

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