MED 680 - COURSE INFORMATON							
Course Title Code Semester L+P Hour Credits ECTS							
Medical Microbiology (Clinical	MED 680	Phase 6/11-12		5	5		
internship)							

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

		GENERAL INFORMATION				
This course is for Phase	e VI students of	Yeditepe University Faculty of Medicine.				
Prerequisites		Obligatory (main) courses of Phase V should be completed.				
Coordination Office		Yeditepe University Hospital.				
Email address for inquiries		pinar.ciragil@yeditepe.edu.tr				
Attendance		Students are required to attend to at least 80% of the classes.				
Language of Instruction	n	English				
Course Level		Second Cycle including First Cycle Degree (One Tier Programme)				
Course Type		Elective course				
Course Coordinator		Pınar Çıragil, MD, Prof.				
Lecturers/Instructors		Güner Söyletir, MD, Prof. Aynur Eren Topkaya, MD, Prof. Pınar Çıragil, MD, Prof. Rabia Can MD, Associate Prof.				
Assistants						
Goals	The aim of specialty.	the elective course is to equip the intern with enriched knowledge and skills in the preferred medical				
Content	The elective internship is a 1 month rotation for the 6th year medical students which has been choosen by students from the area elective courses in the curriculum. Like the other rotations, evaluation of students performance will be based on overall clinical performance both in hospital and outpatient clinics, case papers, attitudes toward patients, participation in seminars and overnight calls, regular attendance at scientific meeti lectures and case conferences, the level of scientific and practical knowledge and consulting skills. Ratings of studence with required projects and will be performed as "passed "or "failed" with an overall evaluation scor 100.					

Learning Outcomes After participating in this clerkship program, students should be able to	Programme Learning Outcomes	Teaching Methods	Assessment Methods
1) Have knowledge about how to use rapid diagnostic tests and syndromic panels in the clinic in the diagnosis of infectious diseases.	1.1.1,1.1.3,1.1. 4, 1.1.6, 1.1.7,2.1.1 ,2.1.2, 2.2.1, 2.2.3,2.3.2, 2.5.3, 3.1.1, 3.1.2,3.1.3	1,2,3	А
2) Can i nterpret how to use those tests in a cost effective manner	1.1.1, 1.1.4, 1.1.3,1.1.6,1.1. 7, ,2.1.1, 2.1.2 ,2.2.1, 2.2.3, 2.3.2, 2.5.3, 3.1.1, 3.1.2,3.1.3	1,2,3	А
3)Can interpret antimicrobial susceptibility test results and select antibiotics according to resistance mechanisms.	1.1.1, 1.1.3,1.1.61.1.7 ,2.1.1, ,2.5.3,	1,2,3	А

	3.1.1, 3.1.2,3.1.3		
4)Have knowledge about intrinsic resistance mechanism	1.1.1, 1.1.3,1.1.61.1.7 ,2.1.1, ,2.5.3, 3.1.1, ,3.1.2,3.1.3	1,2,3	А
5) Knows when to order blood cultures	1.1.1, 1.1.3,1.1.61.1.7 ,2.1.1, 2.2.3,2.3.2, 3.1.1, ,3.1.2	1,2,3	А
6) Knows how to collect blood samples for culture and able to interpret the results of blood cultures	1.1.1, 1.1.3,1.1.61.1.7 ,2.1.1, 3.1.1, 3.1.2,3.1.3	1,2,3	А
6) In the diagnosis of infectious diseases, can distinguish in which cases serological tests can be diagnostic and in which cases they can be helpful.	1.1.1, 1.1.3,1.1.61.1.7 ,2.1.1, ,2.5.3, 3.1.1, 3.1.2,3.1.3	1,2,3	А
7)Selects most appropriate microbiological test/s for diagnosis of a given infectious disease step by step	1.1.1, 1.1.3,1.1.4,1.1. 6, 1.1.7,2.1.1, ,2.5.3, 3.1.1, ,3.1.2,3.1.3	1,2,3	А
8) Can present the evaluation of antimicrobial test results of patient samples as a report.	1.1.1, 1.1.3, 1.1.61.1.7,2.1.1 , ,2.5.3, 3.1.1, 3.1.2, ,3.1.3	1,2,3	А

Teaching Methods:	1. Clinical Experience (Learning environments: Inpatient clinic, Outpatient clinic, Operating
	room, Invasive interventions room, Laboratory, Imaging room, Emergency care unit, Family
	Healthcare Center, Public Healthcare Center) (Learning activities: Grand round, Patient bedside
	discussion, Observership, Clinical practice, Laboratory round, Imaging round)
Assessment Methods:	A: Internship Evaluation Form (Assessment of Clinical Performance)

Week	Topics
1	Lecture: The importance of clinical microbiology laboratory in the diagnosis of infectious diseases
1	Lecture: Pros and cons of rapid diagnostic tests
1	Practice: Evaluation of clinical samples in the clinical microbiology laboratory
1	Practice: Evaluation of clinical samples in the clinical microbiology laboratory
1	Practice: Evaluation of clinical samples in the clinical microbiology laboratory

1	Practice: Laboratory round
1	Practice: Laboratory round
2	Lecture: Clinical significance and correct interpretation of syndromic panels
7	Lecture: Proper use of serological tests in the diagnosis of infectious diseases
	Practice: Examination of syndromic panels in the clinical microbiology laboratory
,	Practice: Examination of syndromic panels in the clinical microbiology laboratory
2	Practice Evaluation of serological tests with patient samples
2	Practice Evaluation of serological tests with patient samples
2	Practice: Laboratory round
3	Lecture: Clinical reflection of antimicrobial resistance mechanisms
3	Lecture: Antimicrobial susceptibility testing: when, how?
3	Practice: Interpretation of susceptibility test results in the clinical microbiology laboratory
3	Practice: Interpretation of susceptibility test results in the clinical microbiology laboratory
3	Practice: Interpretation of susceptibility test results in the clinical microbiology laboratory
3	Practice: Laboratory round
3	Practice: Laboratory round
4	Lecture The place and importance of blood cultures in the diagnosis of infectious diseases
4	Lecture: The place and importance of blood cultures in the diagnosis of infectious diseases
4	Practice: Blood culture collection technique and its correct application (bedside training)
4	Practice: Blood culture collection technique and its correct application (bedside training)
4	Practice: Blood culture collection technique and its correct application (bedside training)
4	Practice: Laboratory round
4	Practice: Laboratory round

		COURSE MATERIALS	
Text			
Books			
and Reading			
Material			
Additional			
Resources			
_			
	YEDİTE	PE UNIVERSITY FACULTY OF MED	DICINE
	INT	ERN PHYSICIAN EVALUATION FO	RM
	This form includes evaluation co	emponents for intern physicians and is th	e basis of the passing grade for
	•	internship.	, , , , ,
Ir	ntern's name and surname:	· · · · · · · · · · · · · · · · · · ·	
<u> </u>	ntern number:		
	nternship program name:		
	ates of start and end for		
	nternship program:		
	. Evaluation of Cognitive Com		
		be determined based on <i>participation in</i>	· · · · · · · · · · · · · · · · · · ·
	ne Department for the intern.	vations of the Faculty Member / Interns	inp training supervisor / nead or
CI	Te Department for the intern.		*Competency Level
1	.1. Clinical reasoning and decis	ion making	Does not meet expectations
	he stages of decision making process	_	Meets expectations
de	etermine preliminary / differential di	agnosis/diagnoses, to order appropriate	Above expectations
	iagnostic tests, to achieve an appropr nterventional or not).	iate definitive diagnosis and treatment	Well above expectations □
	.2. Professional knowledge		Does not meet expectations
		discussions, educational visits, faculty	Meets expectations
m	nember seminars, intern physician ser	minars, etc.) to answer the questions, to	Above expectations
		, to contribute to the discussion, to display	Well above expectations □
	n understanding of the subject.	aar procentation	·
	.3. Literature review and seming reparation based on evidence of high	•	Does not meet expectations
		in a reference to essential check points,	Meets expectations ☐ Above expectations ☐
m	nastering the subject, answering the c	uestions asked.	Well above expectations
	valanations oninions and		well above expectations 🗀
	xplanations, opinions and ecommendations based on		
	he observations of the		
	aculty Member / Internship		
	raining Supervisor / Head of		
	ne Department		
	. Evaluation of Competencies	for Basic Medical Practice	
	•	pe determined based on <i>basic medical p</i>	practice (Title 2 on the Intern
		the Faculty Member / Internship Training	· ·
	epartment for the intern.		
		* Competency Level	
	asic medicine practices	Does not meet expectations \square	
b	ased on <i>Intern Logbook</i>	Meets expectations	
		Above expectations	

Well above expectations \square

Explanations, opinions	anu							
recommendations bas	ed on							
the observations of the	e							
Faculty Member / Inte	rnship							
Training Supervisor / F	lead of							
the Department								
3. Evaluation of Profes	ssional Com	peter	ncies for Medici	ne				
					·	petency Level		
3.1. Communicating w	ith patients	and r	elatives			t meet expectations \Box		
						xpectations		
						xpectations \square		
2.2. Canadianas in bas				_		ove expectations		
3.2. Compliance in hos	spital rules (.e. sta	andard operatin	В		t meet expectations \square		
procedures, SOPs)						xpectations \square		
						ove expectations \square		
2.2.14/								
3.3. Working in a team team members	i and collabo	oratin	g and communic	cating with		t meet expectations \square		
team members						xpectations \square		
						ove expectations \square		
3.4. Performing given	tasks					t meet expectations		
Si-ii r cirorining given	tasks					xpectations		
						xpectations		
						ove expectations \square		
3.5. Diligence on atten	dance and p	artic	ipation in scienti	fic	Does no	Does not meet expectations \Box		
activities			•		Meets expectations \square			
					Above e	xpectations \square		
					Well abo	ove expectations \square		
Explanations, opinions								
recommendations bas								
+ -								
the observations of the								
Faculty Member / Inte	rnship							
Faculty Member / Inte Training Supervisor / F	rnship							
Faculty Member / Inte Training Supervisor / F the Department	rnship Head of		T-1-1 C (O	100)	Lucia	at an Internalise Ford		
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		0 – 59	FF				
		Absent	FA				
	**Attendance		Absence ≤ 20	%	Absence > 20%		
	Decision		Qualified		Unqualified		
Date:							
<u>Internsl</u>	hip Commission:						
Faculty	Member			Faculty Membe	r		
Internsh	nip Training Supervisor			Head of the Dep	partment		

COURSES CONTRIBUTION TO PROGRAM					
COMPETENCE AREA-1 / Professional Practices	Contribution				
COMPETENCE 1.1. Health Service Provider	1	2	3	4	5
Competency 1.1.1. Integrates knowledge, skills, and attitudes acquired					Х
from basic and clinical medical sciences, behavioral sciences, and social					
sciences to provide health services.					
Competency 1.1.2. Demonstrates a biopsychosocial approach that					
considers the individual's sociodemographic and sociocultural background					
without discrimination based on language, religion, race, or gender in					
patient management.					
Competency 1.1.3. Prioritizes the protection and improvement of			Х		
individuals' and community's health in the delivery of healthcare services.					
Competency 1.1.4. Performs the necessary actions in the direction of			Χ		
maintaining and improving the state of health as considering the individual,					
social, social and environmental factors affecting health.					
Competency 1.1.5. Provides health education to healthy/ill individuals and					
their families, as well as to other healthcare professionals, by recognizing					
the characteristics, needs, and expectations of the target audience.					
Competency 1.1.6. Demonstrates a safe, rational, and effective approach					X
in the processes of protection, diagnosis, treatment, follow-up, and					
rehabilitation in health service delivery.					
Competency 1.1.7. Performs interventional and/or non-interventional				Χ	
procedures safely and effectively for the patient in the processes of					
diagnosis, treatment, follow-up, and rehabilitation.					
Competency 1.1.8. Provides healthcare services considering patient and					
employee health and safety.					
Competency 1.1.9. Considers changes related to the physical and socio-					
economic environment at both regional and global scales that affect health,					
as well as changes in the individual characteristics and behaviors of those					
who seek healthcare services.					
COMPETENCE AREA-2 / Professional Values and Approaches		Co	ntribu	tion	
COMPETENCE 2.1. Adopting Professional Ethics and Principles	1	2	3	4	
Competency 2.1.1. Considers good medical practices while performing the					Х
profession.					

Competency 2.1.2. Fulfills duties and obligations within the framework of					
ethical principles, rights, and legal responsibilities required by the					
profession.					
Competency 2.1.3. Demonstrates determined behavior in providing high-				Х	
quality healthcare while considering the patient's integrity.					
Competency 2.1.4. Evaluates own performance in professional practices					
by considering own emotions and cognitive characteristics.					
COMPETENCE 2.2. Health Advocate					
Competency 2.2.1. Advocates for the improvement of healthcare service			Х		
delivery by considering the concepts of social accountability and social					
responsibility in the protection and enhancement of community health.					
Competency 2.2.2. Plans and implements service delivery, education, and				Х	
counseling processes related to individual and community health, in					
collaboration with all stakeholders, for the protection and improvement of					
health.					
Competency 2.2.3. Evaluates the impact of health policies and practices			Χ		
on individual and community health indicators and advocates for the					
improvement of healthcare quality.					
Competency 2.2.4. Gives importance to protecting and improving own					
physical, mental, and social health and takes necessary actions for it.					
COMPETENCE 2.3. Leader-Manager					
Competency 2.3.1. Demonstrates exemplary behavior and leadership					
within the healthcare team during service delivery.					
Competency 2.3.2. Utilizes resources in a cost-effective, socially			Χ		
beneficial, and compliant manner with regulations in the planning,					
implementation, and evaluation processes of healthcare services as the					
manager in the healthcare institution.					
COMPETENCE 2.4. Team Member					
Competency 2.4.1. Communicates effectively within the healthcare team					
and takes on different team roles as necessary.					
Competency 2.4.2. Displays appropriate behaviors while being aware of					
the duties and responsibilities of healthcare workers within the healthcare					
team.					
Competency 2.4.3. Works collaboratively and effectively with colleagues				X	
and other professional groups in professional practice.					
COMPETENCE 2.5. Communicator					
Competency 2.5.1. Communicates effectively with patients, their families,					
healthcare professionals, and other occupational groups, institutions and					
organizations.					
Competency 2.5.2. Communicates effectively with individuals and groups					
1				1	
who require a special approach and have different sociocultural					
who require a special approach and have different sociocultural characteristics.					
					X
characteristics.					X
characteristics. Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes.					Х
characteristics. Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis,		Cor	ntribu	tion	X
characteristics. Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes.	1	Col 2	ntribu 3	tion 4	X 5
characteristics. Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes. COMPETENCE AREA-3 / Professional and Personal Development	1				
characteristics. Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes. COMPETENCE AREA-3 / Professional and Personal Development COMPETENCE 3.1. Scientific and Analytical Approach	1				5
characteristics. Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes. COMPETENCE AREA-3 / Professional and Personal Development COMPETENCE 3.1. Scientific and Analytical Approach Competency 3.1.1. Plans and implements scientific research, as	1				5
characteristics. Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes. COMPETENCE AREA-3 / Professional and Personal Development COMPETENCE 3.1. Scientific and Analytical Approach Competency 3.1.1. Plans and implements scientific research, as necessary, for the population it serves, and utilizes the results obtained, as	1				5
characteristics. Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes. COMPETENCE AREA-3 / Professional and Personal Development COMPETENCE 3.1. Scientific and Analytical Approach Competency 3.1.1. Plans and implements scientific research, as necessary, for the population it serves, and utilizes the results obtained, as well as those from other research, for the benefit of the community.	1				5 X
characteristics. Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes. COMPETENCE AREA-3 / Professional and Personal Development COMPETENCE 3.1. Scientific and Analytical Approach Competency 3.1.1. Plans and implements scientific research, as necessary, for the population it serves, and utilizes the results obtained, as well as those from other research, for the benefit of the community. Competency 3.1.2. Accesses and critically evaluates current literature	1				5 X
Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes. COMPETENCE AREA-3 / Professional and Personal Development COMPETENCE 3.1. Scientific and Analytical Approach Competency 3.1.1. Plans and implements scientific research, as necessary, for the population it serves, and utilizes the results obtained, as well as those from other research, for the benefit of the community. Competency 3.1.2. Accesses and critically evaluates current literature related to their profession.	1				5 X
Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes. COMPETENCE AREA-3 / Professional and Personal Development COMPETENCE 3.1. Scientific and Analytical Approach Competency 3.1.1. Plans and implements scientific research, as necessary, for the population it serves, and utilizes the results obtained, as well as those from other research, for the benefit of the community. Competency 3.1.2. Accesses and critically evaluates current literature related to their profession. Competency 3.1.3. Applies evidence-based medicine principles in the	1				5 X
characteristics. Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes. COMPETENCE AREA-3 / Professional and Personal Development COMPETENCE 3.1. Scientific and Analytical Approach Competency 3.1.1. Plans and implements scientific research, as necessary, for the population it serves, and utilizes the results obtained, as well as those from other research, for the benefit of the community. Competency 3.1.2. Accesses and critically evaluates current literature related to their profession. Competency 3.1.3. Applies evidence-based medicine principles in the clinical decision-making process.	1			4	5 X

COMPETENCE 3.2. Lifelong Learner				
Competency 3.2.1. Manages effectively individual study processes and		Х		
career development.				
Competency 3.2.2. Demonstrates skills in acquiring, evaluating, integrating new information with existing knowledge, applying to professional situations, and adapting to changing conditions throughout professional career.			Х	
Competency 3.2.3. Selects the right learning resources to improve the			Х	
quality of health care and organizes the learning process.				

ECTS ALLOCATION					
Activity	Quantity	Duration (Hours)	Total Workload (Hours)		
Clinical Experience	45	2	90		
Clerkship Guide Compilation	20	1	20		
Independent Learning Hours	45	1	45		
Assessment	2	2.5	5		
Total Work Load			160		
Total Work Load / 30 (h)			5.3		
ECTS Credits			5		