

Medicine			
Bachelor	TR-NQF-HE: Level 7	QF-EHEA: Second Cycle	EQF-LLL: Level 7

Course Introduction and Application Information

Course Code:	TIP0006		
Course Name:	Clinical Pharmacology 3		
Semester:	Fall Spring		
Course Credits:	<div>ECTS</div> <div>5</div>		
Language of instruction:	Turkish		
Course Condition:			
Does the Course Require Work Experience?:	Yes		
Type of course:	Departmental Elective		
Course Level:	<div>Bachelor</div> <div>TR-NQF-HE:7. Master`s Degree</div> <div>QF-EHEA:Second Cycle</div> <div>EQF-LLL:7. Master`s Degree</div>		
Mode of Delivery:	Face to face		
Course Coordinator:	Prof. Dr. HİKMET KOÇAK		
Course Lecturer(s):	Dönem Koordinatörü: Prof. Dr. Nuriye Taşdelen Fışgın Ders (staj) Yürütücüsü: Prof. Dr. Yusuf Sarıoğlu Dersi veren diğer öğretim elemanları: Prof. Dr. Ferda Kaleağasioğlu Dr. Öğr. Üyesi Demet Sinem Güden		
Course Assistants:			

Course Objective and Content

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Course Objectives:	<p>According to the definition of World Health Organization in 1985, rational use of medicines requires that “patients receive medications appropriate to their clinical needs, in doses that meet their clinical needs, in doses that meet their own requirements, for an adequate period of time, and at the lowest cost to them and their community”.</p> <p>The aim of this internship is that intern doctors consider rational use of medicines seriously and develop their prescribing skills in the treatment of selected diseases.</p>
Course Content:	<p>The program covers the treatment principles of the most common diseases at first-step health care in line with the clinical pharmacology learning objectives according to the National Core Education Program,</p> <p>In this internship, every intern doctor</p> <ol style="list-style-type: none"> 1. Presents and discusses an article which he/she prepares from a selected journal in the field of clinical pharmacology (for example, Clinical Pharmacology & Therapeutics) 2. Prepares and makes a presentation on a selected treatment guideline including mechanism of action, adverse effects, drug-drug interactions and contraindications of drugs and presents sample prescriptions.

Learning Outcomes

The students who have succeeded in this course;

- 1) 1. can explain the principles of rational prescribing
- 2) 2. knows how to follow up and benefit from current treatment guidelines
- 3) 3. knows and applies the treatment principles of the most common diseases at the first-step health care.
- 4) 4. can choose the therapeutic agents according to the principles of evidence-based medicine.
- 5) 5. can write a prescription compliant with the principles of rational use of medicines.
- 6) 6. can evaluate the efficacy, safety, suitability, and cost of the drugs he/she prescribed

Course Flow Plan

Week	Subject	Related Preparation
1)	1. Introduction of the clerkship 2. Task assignment 3. Literature Hour	non
2)	1. Literature Hour 2. Treatment Guideline (Presentations of the first and the second guidelines)	non
3)	1. Literature Hour 2. Treatment Guideline (Presentations of the third and the fourth guidelines)	non
4)	1. Literature Hour 2. Treatment Guideline (Presentation of the fifth guideline) 3. Evaluation of the internship	non

Sources

Course Notes /	Dipiro Farmakoterapi El Kitabı 11. Baskı, Güneş Tıp Kitabevi, 2022
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Textbooks:	Katzung & Trevor Farmakoloji Sınav ve Gözden Geçirme Güneş Tıp Kitabevi, 2019 Hastalık bazında Uluslararası Derneklerin web sayfalarında ve pubmedde yer alan tedavi kılavuzları
References:	Treatment guidelines on the selected diseases available from the websites of the relevant professional associations and pubmed. Katzung's Basic & Clinical Pharmacology Goodman& Gilman's Pharmacological Basis of Therapeutics

Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4	5	6
Program Outcomes						
1) When Istinye University Faculty of Medicine student is graduated who knows the historical development of medicine, medical practices, and the medical profession and their importance for society.						
2) knows the normal structure and function of the human body at the level of molecules, cells, tissues, organs and systems.						
3) is capable of systematically taking an accurate and effective social and medical history from their patients and make a comprehensive physical examination.						
4) knows the laboratory procedures related to diseases; In primary care, the necessary material (blood, urine, etc.) can be obtained from the patient with appropriate methods and can perform the necessary laboratory procedures for diagnosis and follow-up or request laboratory tests.						
5) can distinguish pathological changes in structure and functions during diseases from physiological changes and can Interpret the patient's history, physical examination, laboratory and imaging findings, and arrive at a pre-diagnosis and diagnosis of the patient's problem.						
6) knows, plans and applies primary care and emergency medical treatment practices, rehabilitation stages.						
7) can keep patient records accurately and efficiently, know the importance of confidentiality of patient information and records, and protects this privacy.						
8) knows the clinical decision-making process, evidence-based medicine						

practices and current approaches.	1	2	3	4	5	6
Course Learning Outcomes						
9) knows and applies the basic principles of preventive health measures and the protection of individuals from diseases and improving health, and recognizes the individual and/or society at risk, undertakes the responsibility of the physician in public health problems such as epidemics and pandemics.						
10) knows the biopsychosocial approach, evaluates the causes of diseases by considering the individual and his / her environment.						
11) is capable of having effective oral and/or written communication with patients and their relatives, society and colleagues.						
12) knows the techniques, methods and rules of researching. It contributes to the creation, sharing, implementation and development of new professional knowledge and practices by using science and scientific method within the framework of ethical rules.						
13) can collect health data, analyze them, present them in summary, and prepare forensic reports.						
14) knows the place of physicians as an educator, administrator and researcher in delivery of health care. It takes responsibility for the professional and personal development of own and colleagues in all interdisciplinary teams established to increase the health level of the society.						
15) knows employee health, environment and occupational safety issues and takes responsibility when necessary.						
16) knows health policies and is able to evaluate their effects in the field of application.						
17) keeps medical knowledge up-to-date within the framework of lifelong learning responsibility.						
18) applies own profession by knowing about ethical obligations and legal responsibilities, prioritizing human values and with self-sacrifice throughout own medical life.						

Course - Learning Outcome Relationship

No Effect	1 Lowest	2 Average	3 Highest

Program Outcomes	Level of Contribution
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1)	When Istinye University Faculty of Medicine student is graduated who knows the historical development of medicine, medical practices, and the medical profession and their importance for society.	
2)	knows the normal structure and function of the human body at the level of molecules, cells, tissues, organs and systems.	
3)	is capable of systematically taking an accurate and effective social and medical history from their patients and make a comprehensive physical examination.	
4)	knows the laboratory procedures related to diseases; In primary care, the necessary material (blood, urine, etc.) can be obtained from the patient with appropriate methods and can perform the necessary laboratory procedures for diagnosis and follow-up or request laboratory tests.	
5)	can distinguish pathological changes in structure and functions during diseases from physiological changes and can Interpret the patient's history, physical examination, laboratory and imaging findings, and arrive at a pre-diagnosis and diagnosis of the patient's problem.	
6)	knows, plans and applies primary care and emergency medical treatment practices, rehabilitation stages.	
7)	can keep patient records accurately and efficiently, know the importance of confidentiality of patient information and records, and protects this privacy.	
8)	knows the clinical decision-making process, evidence-based medicine practices and current approaches.	
9)	knows and applies the basic principles of preventive health measures and the protection of individuals from diseases and improving health, and recognizes the individual and/or society at risk, undertakes the responsibility of the physician in public health problems such as epidemics and pandemics.	
10)	knows the biopsychosocial approach, evaluates the causes of diseases by considering the individual and his / her environment.	
11)	is capable of having effective oral and/or written communication with patients and their relatives, society and colleagues.	
12)	knows the techniques, methods and rules of researching. It contributes to the creation, sharing, implementation and development of new professional knowledge and practices by using science and scientific method within the framework of ethical rules.	
13)	can collect health data, analyze them, present them in summary, and prepare forensic reports.	

14)	knows the place of physicians as an educator, administrator and researcher in delivery of health care. It takes responsibility for the professional and personal development of own and colleagues in all interdisciplinary teams established to increase the health level of the society.	
15)	knows employee health, environment and occupational safety issues and takes responsibility when necessary.	
16)	knows health policies and is able to evaluate their effects in the field of application.	
17)	keeps medical knowledge up-to-date within the framework of lifelong learning responsibility.	
18)	applies own profession by knowing about ethical obligations and legal responsibilities, prioritizing human values and with self-sacrifice throughout own medical life.	

Assessment & Grading

Semester Requirements	Number of Activities	Level of Contribution
Attendance	1	% 20
Laboratory	1	% 40
Special Course Internship (Work Placement)	1	% 40
total		% 100
PERCENTAGE OF SEMESTER WORK		% 100
PERCENTAGE OF FINAL WORK		%
total		% 100

Workload and ECTS Credit Calculation

Activities	Number of Activities	Preparation for the Activity	Spent for the Activity Itself	Completing the Activity Requirements	Workload
Course Hours	3	1	1	3	15
Application	4	1	1	4	24
Special Course Internship (Work Placement)	4	1	1	4	24
Field Work	2	0	12	24	72

Total Workload

135