

Course Title	Code	Semester	Theoretical (hours/week)	Practice (hours/week)	Laboratory (hours/week)	ECTS
<b>INTRODUCTION TO MEDICAL PHARMACOLOGY</b>	<b>BBM 525</b>	1th/2nd Semester	3	0	0	5
<b>Prerequisites</b>	None					
<b>Course Language</b>	Turkish					
<b>Course Type</b>	Elective					
<b>Teaching Methods</b>	Lecture, Discussion, Question-Answer					
<b>Instructor(s)</b>						
<b>Course Objective</b>	To provide students with the necessary theoretical training with basic concepts and information about pharmacology and drugs.					
<b>Course Learning Outcomes</b>	1- Describes the basic concepts in pharmacology; list the application sites and application routes of drugs and explain the concepts of absorption, distribution, metabolism and excretion of drugs, 2- Describes the mechanisms of actions of drugs; explain the drug-receptor interactions and discuss the factors that influence drug effects. 3- Explains the interactions between drugs and discussing synergism, additive effect, potentiation and antagonism concepts; classify the toxic effects of drugs and explain the definition of pharmacogenetics and effects of genetic factors on the pharmacokinetics and pharmacodynamics of drugs.					
<b>Resources</b>	1- Prof. Dr. Oğuz Kayaalp - Akılçıl Tedavi Yönünden Tıbbi Farmakoloji 1-2, 13. Baskı, 2018. 2- Goodman and Gilman's-Manual of Pharmacology and Therapeutics-2e-2014 3- Basic And Clinical Pharmacology Katzung 14th edition-2018					

## WEEKLY COURSE TOPICS

Weeks	DISCUSSION TOPICS TO BE PROCESSED
1.	Pharmacology and Basic Concepts in Pharmacology
2.	Principal Routes and Sites of Drug Administration
3.	Absorption and Distribution of Drugs
4.	Metabolism of Drugs
5.	Excretion of Drugs
6.	Mechanisms of Drugs Action
7.	Dose-Concentration- Effect Relationships
8.	<b>Midterm exam</b>
9.	Drug Receptor Interactions and Types of Receptors
10.	Factors That Influence Drug Effects
11.	Drug-drug Interactions
12.	Harmful Effects of Drugs
13.	Pharmacovigilance
14.	Pharmacogenetics
15.	<b>Final Exam</b>

## ECTS / WORK LOAD TABLE

Activities	Number	Duration	Total Work Load
Course	14	3	42
Laboratory			
Practice			
Field Study			
Outclass course work hours ( Self working / Teamwork / Preliminary work)	16	3	48
Presentations (Video preparation / Poster preparation / Oral presentation / Focus group discussion / Applying questionnaire/ Observation and report writing)			
Seminars	1	8	8
Project			
Case study			
Role playing, dramatization			
Preparing and criticizing article			
Semester midterm exams	2	10	20
Semester final exams	1	7	7
<b>Total Work Load ( hour) / 25(s)</b>	<b>125/25=5</b>		
<b>ECTS</b>	<b>5</b>		

## EVALUATION SYSTEM

Midterm Studies	Number	Contribution
Midterm exam	1	%25
Quiz		
Laboratory		
Practice		
Field Study		
Specific practical training (If exists)		
Homework assignments		
Presentations and seminars	1	%25
Projects		
Other evaluation methods		
<b>Total of Midterm Studies</b>		<b>%50</b>
<b>Final Studies</b>		
Final	1	%50
Homework assignment		
Practice		
Laboratory		
<b>Total of Final Studies</b>		<b>%50</b>
Contribution of midterm studies to course grade		%50
Contribution of final studies to course grade		%50
<b>Total Grade</b>		<b>100</b>

## RELATIONSHIPS BETWEEN COURSE LEARNING OUTCOMES AND PROGRAM QUALIFICATIONS

Program Qualifications	Learning Outcomes		
	LO1	LO2	LO3
1. Based on undergraduate level qualifications, it has up-to-date knowledge in the field of Biological and Biomedical Sciences and develops and deepens them.	4	4	4
2. Have knowledge about information technologies, technical equipment and the devices and instruments that are specific to the field in the field of Biomedical Sciences.	4	4	4
3. To integrate the information in the field of Biological and Biomedical Sciences with information from different disciplines and to create new information, interpret and analyze by using different research methods and propose solutions.	4	4	4
4. He writes the report of his research.	4	4	4
5. Can plan and apply an experimental research	4	4	4
6. In the field of Biological and Biomedical Sciences, can offers solutions, solves the problems, evaluates the results obtained and applies when necessary.	4	4	4
7. Makes scientific clinical and / or descriptive research / presentation / publication on priority topics related to Biological and Biomedical Sciences and public health.	4	4	4
8. Evaluates the knowledge related to Biological and Biomedical Sciences with a critical approach.	4	4	4
9. Applies the principles of professional development and lifelong learning in the field of Biological and Biomedical Sciences.	4	4	4
10. Students will be able to discuss and share their knowledge in the field of Biological and Biomedical Sciences in their written, oral and visual form in a systematic manner with current and other groups.	4	4	4
11. Examines the social relations in the professional environment and the norms that direct these relations from a critical point of view and makes necessary to develop them.	4	4	4
12. Observes and teaches the social, scientific and ethical values in the stages of data collection, recording, interpretation and	4	4	4

	announcement in the field of Biological and Biomedical Sciences.			
<b>13.</b>	Evaluates the current developments in the field of Biological and Biomedical Sciences in line with national values and realities of the country, including children and families, which are the basic unit of society.	<b>4</b>	<b>4</b>	<b>4</b>
<b>14.</b>	Knows the importance of ethical principles and rules for the individual and society, behaves ethically.	<b>4</b>	<b>4</b>	<b>4</b>
<b>15.</b>	Develops strategy, policy and implementation plans in the field of Biological and Biomedical Sciences and evaluates the obtained results within the framework of quality processes.	<b>4</b>	<b>4</b>	<b>4</b>

**Contribution to the level of proficiency: 1: Low 2: Low/Moderate 3: Moderate 4: High 5: Excellent**