Course Title	Code	Semester	Theoretical (hours/week)	Practice (hours/week)	Laboratory (hours/week)	ECTS
Current Approaches in Molecular Medicine	**MTP 511**	**1./2. Yarıyıl**	**3**	**0**	**0**	**5**
Prerequisites	None					
Course Language	Turkish					
Course Type	Elective					
Teaching Methods	Lecture, question- answer, demonstration, practice-exercise					
Instructor(s)						
Course Objective	The main objective of this course is to cover maintenance of the genome, expression of genome and regulation.					
Course Learning Outcomes	**1.** To be able to follow the current changes and developments in the field of medicine **2.** To be able to understand that the idea of a project can be transformed into an application that can change the world of medicine. **3.** To have general information about important medical discoveries					
References	**1.** http://www.nobelprize.org/ **2.** How to win the Nobel prize, J. Michael BISHOP Harvard University Press, 2004					

WEEKLY COURSE TOPICS

Weeks	DISCUSSION TOPICS TO BE PROCESSED
1.	What is Molecular Medicine?
2.	Molecular Medicine and DNA
3.	Current developments in DNA Damage
4.	Current developments in DNA Repair Mechanism
5.	immunotherapy
6.	immunotherapy
7.	Stem cells
8.	Stem cells
9.	**Midterm exam**
10.	Stem cells
11.	Instrumental analysis in Molecular Medicine 1
12.	Instrumental analysis in Molecular Medicine II
13.	IVF
14.	Bacteria that cause gastritis (Helicobacter Pylori)
15.	**Final Exam**

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)	14	4	56
Presentations (Video preparation / Poster preparation / Oral presentation / Focus group discussion / Applying questionnaire/ Observation and report writing)			
Seminars			
Project			
Case study			
Role playing, dramatization			
Preparing and criticizing article			
Semester midterm exams	2	10	20
Semester final exams	1	7	7
Total Work Load (hour) / 25(s)	125/25=5		
ECTS	**5**		

EVALUATION SYSTEM

Midterm Studies	**Number**	**Contribution**
Midterm exam	1	%25
Quiz		
Laboratory		
Practice		
Field Study		
Specific practical training (If exists)		
Homework assignment		
Presentation and seminar	1	%25
Projects		
Other evaluation methods		
Total of Midterm Studies		%50
Final Studies		
Final	1	%50
Homework assignment		
Practice		
Laboratory		
Total of Final Studies		%50
Contribution of midterm studies to course grade		%50
Contribution of final studies to course grade		%50
Total Grade		**100**

RELATIONSHIPS BETWEEN COURSE LEARNING OUTCOMES AND PROGRAM QUALIFICATIONS

Program Qualifications		Learning Outcomes		
		LO1	**LO2**	**LO3**
1.	Has up-to-date knowledge in proficiency level in the field of Molecular Medicine based on qualifications at the undergraduate level, develops and deepens them.	4	3	3
2.	Has knowledge about the information technologies, technical equipment, devices and tools at the level required by the field of Molecular Medicine.	3	3	4
3.	Interprets new informations by integrating with information from different disciplines and Molecular Medicine. Analyzes and synthesizes by using different research methods and brings solution proposals.	5	4	3
4.	Writes the report of own research.	3	2	3
5.	Plans experimental research and practises.	3	4	3
6.	Fictionalizes about the subjects that need proficiency in the field of Molecular Medicine, brings solution proposals, solves problems, evaluates the results obtained and applies them when necessary.	3	3	3
7.	Make scientific clinical and / or descriptive research / presentation / publication associated with primary topics in Molecular Medicine and community health	3	3	2
8.	Evaluates the knowledge in the field of Molecular Medicine critically and directs the learning.	5	4	4
9.	Applicates the principles of professional development and lifelong learning related to the field of Molecular Medicine to the studies that carry out.	4	4	3
10.	Systematically discusses and shares the informations about current developments and own works in the field of Molecular Medicine, in written, oral and visual manner with same or different working areas.	2	3	5
11.	Collects, registers, interprets, announces data related to the field of Molecular Medicine, observes social, scientific and ethical values and teaches these values.	5	4	3
12.	Collects data related to the field of Molecular Medicine, towards restriction, interpretation, announcing social, scientific, and ethic values in oversees and teaches these values.	3	3	3
13.	Evaluates current developments in the field of Molecular Medicine that cover both the basic unit related to the society, child and family, in the direction of national values and country facts.	5	4	5
14.	Knows the importance of ethical principles and ethical committees for the individual and society, and behaves ethically.	4	4	3
15.	Develops strategies, policies and implementation plans in the field of Molecular Medicine and evaluates the results obtained within the framework of quality processes.	4	2	3

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