AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Patent and Innovation								
Course Code	MBTK640		Couse Level	Third Cycle (Doctorate Degree)					
ECTS Credit	5	Workload	129 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	The aim of this course is to give ability to provide knowledge and skills about licensing and patrol of biotechnological drugs								
Course Content	The regulations on licensing, patenting, patent protection and application of biotechnological drugs will be explained.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Individual Study								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	All scientific journals and textbook on recombinant proteins

Week	Weekly Detailed Course Contents	
1	Theoretical	Licensing Process
2	Theoretical	Preparation and Scope of Licensing Files
3	Theoretical	Various Authorities and Legal Processes in Licensing
4	Theoretical	Quality Control in Licensing
5	Theoretical	Intellectual and Industrial Property Rights
6	Theoretical	Patent
7	Theoretical	Patent organizations
8	Intermediate Exam	Midterm exam
9	Theoretical	Patent protection of pharmaceuticals and biotechnological inventions
10	Theoretical	Case evaluations in biotechnological drug patents
11	Theoretical	European applications in biotechnological drug patents
12	Theoretical	European applications in biotechnological drug patents
13	Theoretical	Example patent application review-1
14	Theoretical	Example patent application review-2
15	Final Exam	Final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Assignment	14	0	4	56
Term Project	1	0	14	14
Individual Work	13	0	3	39
Midterm Examination	1	0	3	3
Final Examination	1	0	3	3
			Total Workload (Hours)	129
			[Total Workload (Hours) / 25*] = **ECTS**	5
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Will have knowledge about licensing

2	Will have and using the regulatory documents of biotechnological drugs
3	Will have knowledge about the patent
4	Will knowledge and application of biotechnological drug patent application
5	Will know legal processes about licensing and patents

Programme Outcomes *(Molecular Biotechnology(English) Interdisciplinary Doctorate)*	
1	Ability to identify, analyze and understand problems related to molecular biotechnology and finding valid conclusions with basic knowledge in biotechnology
2	Ability to appropriately use laboratories and their associated equipment as part of research and observation activities through various branches of sciences
3	Ability to understand and interpret biological processes at cell, tissue, organ, system and organism levels
4	Ability to decide and apply appropriate tools and techniques in biotechnological manipulation
5	Ability to comprehend fundamentals of genetics and molecular biology and carry out basic methods in relevant applications
6	Ability to apply the fundamentals of protein and DNA chemistry, and immunology to techniques in biotechnology
7	. Ability to understand and practice basics of applied biotechnology, with acquired knowledge on problem solving approaches
8	Ability to understand and interpret basics of molecular applications within medical, agriculture, veterinary and forensic sciences
9	Ability to perceive biological existence at the global and regional scales, together with comprehension of associated problems
10	Acquiring appropriate knowledge in the field of basic sciences to support perception, analysis and interpretation of biological facts, and ability to use and practice relevant methods for this goal
11	Ability to develop proficiency in laboratory management, including maintenance of an orderly work environment, inventory and ordering, and set up or maintenance of equipment
12	Ability to learn essential methods in microbiology and basic skills in a microbiology labortaory
13	Ability to demonstrate proficiency with standard techniques in liquid measurement, recombinant DNA technology, protein purification and identification, and cell culture

Contribution of Learning Outcomes to Programme Outcomes *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

	L1	L2	L3	L4	L5
P1	5	5	5	5	5
P2	5	5	5	5	5
P3	3	3	3	3	3
P4	5	5	4	4	4
P5	5	5	4	4	4
P6	3	3	3	3	3
P7	4	4	5	5	5
P8	4	4	5	5	5
P9	4	4	5	5	5
P10	4	4	5	5	5
P11	3	3	3	3	3
P12	3	3	3	5	5
P13	5	5	5	5	5