COURSE INFORMATON					
Course Title	*Code*	*Semester*	*T+U Hour*	*Credits*	*ECTS*
PhD Thesis	BTEC 700	3-8	1 + 0	0	38

Prerequisites	BTEC 691: Independent Study for Qualifying Exam

Language of Instruction	English
Course Level	PhD
Course Type	Core Course
Course Coordinator	Prof. Dr. Fikrettin Şahin
Instructors	Thesis advisor
Assistants	NONE
Internship	NONE
Goals	To accomplish the new and novel study in biotechnology area in whole perspective. To realize the necessities of the study and learn the knowledge of the theme.
Content	To review the updated articles, interpret them, to decide the appropriate route of study and perform the necessary experiments to gather all data and lastly make decision and comment about results.

Course Learning Outcomes	**Program Learning Outcomes**	**Teaching Methods**	**Assessment Methods**
To gain knowledge and experience via experiments and interpret the data during thesis study	1,2,3,4,5,6,7,8,9	2, 3	B, D

Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Case-study
Assessment Methods:	A: Testing, B: Laboratory, C: Homework, D: Project

COURSE CONTENT		
Week	**Topics**	**Study Materials**
1-14	To use the knowledge from interpretation of experiments in thesis study	Books, Review and Research articles

RECOMMENDED SOURCES	
Textbook	-
Additional Resources	-

MATERIAL SHARING
Documents
Assignments
Exams

ASSESSMENT		
IN-TERM STUDIES	**NUMBER**	**PERCENTAGE**
Mid-terms		
Experiment	14	50
Assignment		
Project	1	50
Total		100
CONTRIBUTION OF FINAL EXAMINATION TO OVERALL GRADE		100
CONTRIBUTION OF IN-TERM STUDIES TO OVERALL GRADE		0
Total		100

COURSE CATEGORY	Expertise Courses

COURSE'S CONTRIBUTION TO PROGRAM							
No	Program Learning Outcomes	Contribution Level					
		1	2	3	4	5	
1	Advanced level knowledge of mathematics, statistics, and bioengineering.					X	
2	The ability of designing biological systems, analysis or process in order to meet up with the desired requirements/products.					X	
3	The ability of identification and describing the engineering problems in biotechnology and bioengineering and proposing solution by making use of most up-to-date techniques and instruments.			X			
4	The ability of working efficiently in interdisciplinary teams and being definitive in decision making process by taking responsibilities.			X			
5	The ability of developing efficient communicating skills in the field of biotechnology and presenting oneself efficiently in social and scientific arena/platforms.				X		
6	The ability to have occupational ethics and social responsibilities, intellectual conscious in areas of professional conversations, declarations, and applications.					X	
7	The ability of perceiving occupational ethics and their implications on the society at legal and economic level.					X	
8	The ability of retaining the necessity of lifelong education, learning, and improvement and gain the skills to achieve this.					X	
9	The ability of perceiving the impact of bioengineering, genetics, and biotechnology products and solutions at the environmental, global and social levels.					X	
10	The ability to express oneself in English orally and in writing at global platform.				X		

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
Activities	Quantity	Duration (Hour)	Total Workload (Hour)
Course Duration (Excluding the exam weeks: 14x Total course hours)	14	67	938
Hours for off-the-classroom study (Pre-study, practice)			
Mid-term examination			
Experiment			
Homework			
Project			
Final examination			
Total Work Load			938
Total Work Load / 25 (h)			37.5
ECTS Credit of the Course			38