RESEARCH AND DEVELOPMENT IN AGRICULTURAL TECHNOLOGY

1	Course Title:	RESEARCH AND DEVELOPMENT IN AGRICULTURAL TECHNOLOGY	
2	Course Code:	BSM5023	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	6.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	2.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. ALİ VARDAR	
15	Course Lecturers:	YOK	
16	Contact information of the Course Coordinator:	e-posta: dravardar@uludag.edu.tr Telefon: 0 224 2941605 Adres: Bursa Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA	
17	Website:		
18	Objective of the Course:	The purpose of this course, students of science and technology, technology development processes, invention, innovation, R & D, innovation, patents, and to give basic information on intellectual rights. R & D to make the course the students' knowledge and skill levels and project manage the labor force.	
19	Contribution of the Course to Professional Development:	It contributes to the ability to make scientific R&D projects in professional fields.	
20	Learning Outcomes:		
		1	Apply scientific research methods and techniques in agriculture
		2	Understand the orientations of R & D and management in Agricultural Technologies
		3	Understand the importance of the concept of the agriculture project and project-oriented work
		4	Understand the concepts of intellectual properties such as patent, utility model
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21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Introduction	Giving homework subjects and informing about the application

2	Science, technology and development processes	Examining Reading Text
3	The invention is related to the processes of innovation and creativity	Examining Reading Text
4	Transfer of technology and processes	Examining Reading Text
5	Research and development management	Literature search application
6	Project preparation and presentation methods	Literature search application
7	Project management	Examination of Sample Projects
8	Example project preparation work	Examination of Sample Projects
9	Repeating courses	Examination of Sample Projects
10	Innovation processes	Examining Reading Text
11	Types of Innovation	Examining Reading Text
12	Intellectual rights	Sample Patent review
13	Example operation of the patent application preparation	Sample Patent review
14	General Review	General Review

22	Textbooks, References and/or Other Materials:	1. Ersoy M.S., 2010. Proje yönetimi, İmaj Kitabevi, Ankara. 2. Barutçugil İ., 2009. ARGE yönetimi, Kariyer Yayınları 132, İstanbul. 3. Öner M.A., 2006. ArGe yönetimi, Boğaziçi Üniversitesi Yayınevi, İstanbul. 4. Luecke R. (Çeviren: Şensoy Ü.), 2009. Proje yönetimi, Tüzkiye İş Bankası Kültür Yayınları 1640, İstanbul.

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	0	0.00	0.00
Homeworks	1	80.00	80.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	18.00	0.00
Others	0	0.00	0.00
Final Exams	1	24.00	24.00
Total Work Load			160.00
ECTS Credit of the Course			6.00

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Quiz	0	0.00
Final Exam	1	100.00
Contribution of Term (Year) Learning Activities to		0.00
Contribution of Final Exam to Success Grade		100.00
Total work load/ 30 hr		5.93
Measurement and Evaluation Techniques Used in the	The effect of the final exam on the course-passing grade is	

24 ECTS / WORK LOAD TABLE

25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS

	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	3	1	4	5	4	1	1	3	1	1	1	1	0	0	0	0
ÖK2	3	3	1	5	3	1	1	1	2	2	3	1	0	0	0	0
ÖK3	3	3	1	5	1	2	1	3	1	2	2	3	0	0	0	0
ÖK4	3	3	1	4	1	5	1	2	2	3	2	3	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications					
Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**