PRECISION AGRICULTURAL TECHNOLOGIES									
1	Course Title:	PRECIS	SION AGRICULTURAL TECHNOLOGIES						
2	Course Code:	BSM481	8						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	le						
5	Year of Study:	4							
6	Semester:	8							
7	ECTS Credits Allocated:	3.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Doç.Dr. S	SELÇUK ARSLAN						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	e-posta: dravardar@uludag.edu.tr Telefon: 0 224 2941605 Adres: Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA							
17	Website:								
18	Objective of the Course:	Description of precision agriculture (PA) and its objectives, geographic information systems in PA, yield measuring systems used in agricultural machinery, preparation of GPS-based yield maps, evaluating variations of yield statistically, equipment used in soil and plant sampling, analyzing and mapping features of soil and plant in respect to PA, remote sensing methods, evaluating properties of yield, plant and soil, preparation of application maps, variable rate technologies with application methods, evaluation of PA technologies in respect to economics and environment.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	understand precision agriculture techniques						
		2	synthesize various engineering disciplines and PA						
		3	analyze yield variations in agriculture with PA techniques						
		4							
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21	Course Content:		A sector of the						
\	-	Co	burse Content:						
Week			Practice						
1	Introduction to precision agriculture								

2	Geodetic datum, coordinate systems projections	and						
3	Positioning systems and principles of Usage of these systems in PA	f GPS.						
4	Differential GPS and its applications	in PA						
5	GIS concepts and data types							
6	Interpolation methods in GIS 1							
7	Interpolation methods in GIS 2							
8	Soil sampling in PA							
9	Mid-term							
10	Yield monitoring and mapping in PA							
11	Remote sensing in PA 1							
12	Remote sensing in PA 2							
13	Variable rate machinery and equipme	ents						
Activit	ies		Number	Duration (hou) Total Work Load (hour)			
Theore	Malterials:		Uygulamalı Tarı	ım Tekno 2006, Nobel Kitat	e 2810099.			
Practic	als/Labs		0	0.00	0.00			
Self stu	dy and preperation		14 O The Drasisier	2.00	28.00			
Homew	vorks		1	12.00	12.00			
Project	8		0	0.00	0.00			
Field S	tudies		0	0.00	0.00			
Thate r I	FARMING ACTIVITIES	NUMBE R	WEIGHT	8.00	8.00			
Others			0	0.00	0.00			
<u> Ginal e</u>	xams	0	0.00	12.00	12.00			
Total V	Vork Load				96.00			
Frial P	/ork load/ 30 hr	1	60.00		2.93			
ECTS	Credit of the Course				3.00			
Contribution of Term (Year) Learning Activities to Success Grade			40.00					
Contrib	ution of Final Exam to Success Grade	Э	60.00					
Total			100.00					
Measu Course	rement and Evaluation Techniques Us	sed in the						
24	ECTS / WORK LOAD TABLE							

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	3	0	0	0	4	3	0	4	4	0	4	3	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	4	0	4	3	0	0	0	0
ÖK3	5	4	0	0	4	0	0	3	3	3	5	3	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low	/ 3 Me		Medi	ium 4 Higi		h	5 Very High		1				