GRAIN LEGUMES CROPS										
1	Course Title:	GRAIN I	N LEGUMES CROPS							
2	Course Code:	TAR3318-Z								
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cycle								
5	Year of Study:	3								
6	Semester:	6								
7	ECTS Credits Allocated:	4.00								
8	Theoretical (hour/week):	1.00								
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. ABDULLAH KARASU								
15	Course Lecturers:	-								
16	Contact information of the Course Coordinator:	e-posta: akarasur@uludag.edu.tr Telefon: 0 224 29 41514 Adres: Uludağ Üniversitesi Ziraat Fakültesi Tarla Bitkileri Bölümü								
17	Website:									
18	Objective of the Course:	Objective of the course is to familiarize the species of food legume crops and their breeding techniques to the department students.								
19	Contribution of the Course to Professional Development:	Grain legumes are important in human and animal nutrition and increase soil fertility. Students who are successful in this course will put this knowledge into practice in their professional life.								
20	Learning Outcomes:									
		1	Be able to learn the importance of food legume crop cultivation for the preservation and improvement of soil efficiency and also for crop rotation							
		2	Be able to know morphological and agronomic characteristics of food legume crops							
		3	Be able to know formation of nodules on the roots at legume cultivated fields and physical and chemical soil properties for the optimum nitrogen fixation							
		4	Be able to comprehend the importance of inoculation at legume cultivation in Turkey							
		5	Be able to know soil and climate requirements of food legume crops and suitable regions for ideal cultivation							
		6	Be able to know food legume crops (lentil, chickpea, be faba bean, pea and cowpea) cultivation							
		7	Be able to give information to the producers about providing material, production process and about marketing of food legume crops							
		8 Be able to incorparate food legume crops into region production pattern								
		9								
		10								
21	Course Content:									

Course Content:												
Week	Theoretical		Practice									
1	Importance of food legume crops for preservation and improvement of soil efficiency and also for crop rotation	the I	Taxonomy of food legume crops									
2	Economic importance of food legume the World and Turkey	e crops in	Morphological characteristics of food legume plants									
3	General adaptation features of food l crops	egume	Germination of food legume plants									
4	Nitrogen fixation and formation of noo the roots of food legume plants	dules on	Greenhouse experiment-1 (Pot and soil preperation)									
5	Physical and nutrient element factors effecting nitrogen fixation and nodule formation	;	Greenhouse experiment-2 (Germination)									
6	Bacterial inoculation and its benefits		Greenhouse experiment-3 (Sowing and inoculation)									
7	Economic importance and cultivation	of lentil	Introducing of seed and herbarium of lentil									
8	Genaral repeat Midterm exam		Greenhouse experiment-4 (General observations)									
9	Economic importance and cultivation chickpea	of	Introducing of seed and herbarium of chickpea									
10	Economic importance and cultivation bean	of dry	Introducing of seed and herbarium of dry bean									
11	Economic importance and cultivation bean	of faba	Introducing of seed and herbarium of faba bean									
12 Activit	Economic importance and cultivation es	of drv	Introducina of se Number	ed and herbarium_of dr Duration (hou	ur) Total Work Load (hour)							
Theore	leaneral repeat		General repeat	1.00	14.00							
Practica	als/Labs		14	2.00	28.00							
Self stu	dy and preperation		6 - 47KAN N 1990	2.00 FoodLegume Crops	12.00							
Homew	vorks		1	15.00	15.00							
Project	8		O SEHIRALI S 1		0.00 Apkara Univ							
Field S	tudies		0	0.00								
Midtern	n exams			10.00 R L Roberts E H G								
Others	-		1	20.00	20.00							
Final E	kams		1	20.00	20.00							
Total W	/ork Load				119.00							
Total w	ork load/ 30 hr	R	WEIGHT		3.97							
ECTS (Credit of the Course				4.00							
Quiz		1	20.00									
Home v	work-project	0	0.00									
Final E	xam	1	60.00									
Total		3	100.00									
Contrib Succes	ution of Term (Year) Learning Activitiess Grade	es to	40.00									
Contrib	ution of Final Exam to Success Grade	9	60.00									
Total			100.00									
Measur Course	rement and Evaluation Techniques Us	sed in the	It is evaluated according to the principles of Bursa Uludağ University Associate and Undergraduate Education Regulation.									
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	4	4	0	4	3	3	0	5	0	0	0	0	0	0	0	0
ÖK2	4	4	4	5	5	3	0	3	0	0	0	0	0	0	0	0
ÖK3	4	0	0	0	0	3	0	4	0	0	0	0	0	0	0	0
ÖK4	4	4	3	0	0	3	0	5	0	0	0	0	0	0	0	0
ÖK5	5	5	3	0	0	3	0	4	0	0	0	0	0	0	0	0
ÖK6	5	5	4	0	0	3	0	5	0	0	0	0	0	0	0	0
ÖK7	4	4	4	0	4	4	0	4	0	0	0	0	0	0	0	0
ÖK8	4	4	4	0	4	4	0	4	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ntrib 1 very low on vel:				2 Iow		3 Mediun			4 High			5 Very High			