

PRINCIPLE OF FARM MACHINERIES-1

1	Course Title:	PRINCIPLE OF FARM MACHINERIES-1
2	Course Code:	
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	5
7	ECTS Credits Allocated:	
8	Theoretical (hour/week):	
9	Practice (hour/week):	
10	Laboratory (hour/week):	
11	Prerequisites:	none
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç.Dr. SELÇUK ARSLAN
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	e-posta : okursoy@uludag.edu.tr Telefon: 0 224 2941602 Adres: Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA
17	Website:	http://www20.uludag.edu.tr/~okursoy
18	Objective of the Course:	Processing of agricultural land, processing equipment and machines, plows, soil milling, the bottom boilers, cultivators, harrows, rollers, sliders field, minimum tillage no-till farming techniques and the concept of protected agriculture, sowing methods, sowing grain sowing machines setting, beets, and cotton, potatoes, potatoes and sugar beet sowing machines, sowing machines, seed drills, sowing machines, sewing machines, seedling planting seedlings, planting schemes, feet, and the main parts of machines, general features and layouts, maintenance equipment, water can print wheels, machines, fertilizing machines, farm yard manure dilution, granular fertilizers and liquid fertilizer distributing machinery
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Students are informed on different soil tillage and seed bed preparation technics for the growth of agricultural products to provide to know the techniques. The main parts of seedlings, planting machines, sewing machines, and general characteristics of the water schemes, schemes, feet, and maintenance machines can print wheels, dilution machines, manure spreaders manure, granular fertilizers and liquid manure on deploying machines with specific knowledge about students' goals digger creates.
	2	Land shortage and soil erosion due to tillage techniques on solving these problems, ensure that you have the knowledge.
	3	Students are informed about all tools used in agriculture for seed bed preparation and machinery, design, use, repair and maintenance and configuration of those machines.

		4	Planting and fertilizing machinery used in agriculture all kinds of maintenance tools and machines, design, use, maintenance and configuration.	
		5	Equip them with the knowledge that no-till farming	
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21	Course Content:			
	Course Content:			
Week	Theoretical	Practice		
1	Aim of the course, the course will run in what way, the exam type, in order to achieve the expected benefits from the course the students discussed the responsibilities incumbent upon what is happening.	General description of soil tillage machines		
2	Definition and structure of the soil, and the soil solid components, soil water saturation, soil aeration, porosity and voids oraniAdezyon, cohesion, plasticity, soil congestion	Problems and solutions for the learning of basic concepts and their general studies		
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical	processing of the soil tilling	14	1.00	14.00
4	No tillage technique, protected agriculture	Direct processing techniques and the concept of power		
Practicals/Labs		14	2.00	28.00
Self study and preparation		0	0.00	0.00
Homeworks		0	0.00	0.00
Projects	land, parcel processing techniques (methods of release), the end of the parcel return forms, successses of settings	0	0.00	0.00
Field Studies		4	10.00	40.00
Midterm exams		1	2.00	2.00
6	PTO driven soil tillage machinerv, soil.	Introduction to Seeding and drilling machines: Sowing and		
Others		0	0.00	0.00
Final Exams	trakes, machinery parts, functions, settings, and design of repairs and maintenance	1	6.00	6.00
Total Work Load				90.00
Total work load/ 30 hr				3.00
7	Seeding methods, grain sowing machines	Special planting machines, potato, sugar beet and cotton		
ECTS Credit of the Course				
	maintenance and adjustment, sowing			
8	Potato planting machines, sowing machines, sugar beet and cotton sowing machines	Midterm exam		
9	Garden mechanization used in the other tillage machines, arc plow, hoe machinery, sore throat, filling instruments	Maintenance machines, hoeing and throat filling machines and tools of dilution		
10	No-tillage technique, protected agriculture, the concept of minimum tillage, zero-tillage methods, the overall evaluation of course,	Fertilizers and manure spreaders, fertilizer norm		
11	Fertilizers and manure spreaders, fertilizer norm	Granular fertilizer distributing farm machinery and fertilizer distributors		
12	Granular fertilizer distributing farm machinery and fertilizer distributors	Liquid fertilizer distributing machines, liquid fertilizer tanks		
13	Liquid fertilizer distributing machines, liquid fertilizer tanks			

14																
22	Textbooks, References and/or Other Materials:								Kepner, R.A.,R.Bainer, E.L.Barger.1978. Principles of Farm Machinery. 3rd ed. AVI Publishing Company. Westport Connecticut. USA. McKyes, E. 1984. Soil Cutting and Tillage. Theory and the Practice. Elsevier Science Publishers. Amsterdam. Netherlands.							
23	Assesment															
TERM LEARNING ACTIVITIES								NUMBE R	WEIGHT							
Midterm Exam								1	40.00							
Quiz								0	0.00							
Home work-project								0	0.00							
Final Exam								1	60.00							
Total								2	100.00							
Contribution of Term (Year) Learning Activities to Success Grade								40.00								
Contribution of Final Exam to Success Grade								60.00								
Total								100.00								
Measurement and Evaluation Techniques Used in the Course																
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	2	2	2	2	3	2	2	2	2	5	5	2	0	0	0	0
ÖK2	3	5	4	2	5	2	2	4	2	4	5	3	0	0	0	0
ÖK3	2	2	2	3	4	4	5	2	2	3	2	2	0	0	0	0
ÖK4	1	2	3	2	2	4	3	1	2	2	3	3	0	0	0	0
ÖK5	2	3	3	4	4	5	3	2	2	3	2	1	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			