FARM POWER AND MACHINERY MANAGEMENT

1	Course Title:	FARM POWER AND MACHINERY MANAGEMENT
2	Course Code:	BSM4825-S
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	4
6	Semester:	7
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 face
14	Course Coordinator:	Doç. Dr. ONUR TAŞKIN
15	Course Lecturers:	Yok
16	Contact information of the Course Coordinator:	e-posta: onurtaskin@uludag.edu.tr Telefon: 0 224 2941602 Adres: Bursa Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA
17	Website:	
18	Objective of the Course:	Management School and the scope of the importance of agricultural machinery, agricultural machinery, the basic concepts of the operating business, business success, and their power requirements and cost calculation methods to teach concepts and give the ability to use these methods.
19	Contribution of the Course to Professional Development:	The students will provide professional development in machine selection and using common machines.
20	Learning Outcomes:	

		1	Clarify basic concepts of farm machinery management
		2	Learn calculating machine performance of agricultural machinery
		3	Learn calculating costs of agricultural machinery operations and power requirment
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21	Course Content:	

Course Content:	

Week	Theoretical	Practice

#	Topic
1	Introduction, agricultural machinery, management, importance and scope, the concept of agricultural machinery business success, economic, business success, business success, technical, theoretical, business success, business success in real
2	Calculation methods of business success, business success factors in an effective, working width, operating speed, field efficiency
3	Other factors that effect business success, field shape, the parcel width, tuning and maintenance, and return to work forms plots
4	The concept of power, and power requirements of farm machinery, basic concepts, force, distance, time, speed, work, torque, power
5	The concept of power for tractors, motor fuel performance, net engine power, the power of the tail shaft, axle power, tractive power, the power calculation methods taktörlerde
6	Agricultural machines, the power requirement, the need for traction, PTO power requirement, power consumption requirements of different machines used in the calculation methods
7	Farm machinery cost, Cost elements, fixed costs (depreciation, interest, protection, insurance expenses in the calculation methods used
10	Fuel, oil repairs and methods used in the calculation of labor costs
11	Effective factors in the selection of agricultural machines and machine selection, which are ...
12	Periods, and field workability workable ...
14	Mechanical methods and applications in the ...
22	Textbooks, References and/or Other ...
23	Assesment

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	1.00	14.00
Homeworks	1	24.00	24.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	8.00	8.00
Others	0	0.00	0.00
Final Exams	1	12.00	12.00
Total Work Load			94.00
Total work load/ 30 hr			2.87
ECTS Credit of the Course			3.00

Textbooks, References and/or Other:
1. Donnell H., 2001. Farm Power and Machinery. ISBN 0-8138-1756-0.
2. Brian W., 1996. "Choosing and Using Farm Machines", Redwood Books, ISBN 0-9525596-0-9.
3. Darga A., 2005. Tarım Makinaları İşletmeciliği (Yayınlanmamış ders notları)

23 Assesment

TERM LEARNING ACTIVITIES	NUMBER	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	The effect of the midterm exam on the course-passing grade is 40%, the effect of the final exam on the course-passing grade is 60%.

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	4	3	3	3	4	3	4	4	3	3	0	5	0	0	0	0
ÖK2	5	5	3	4	5	3	3	5	3	3	4	5	0	0	0	0
ÖK3	3	5	5	4	5	3	4	5	3	3	4	5	0	0	0	0

LO: Learning Objectives   PQ: Program Qualifications

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High