

ADVANCED AGRICULTURAL MACHINERY MANAGEMENT

1	Course Title:	ADVANCED AGRICULTURAL MACHINERY MANAGEMENT	
2	Course Code:	BSM5021	
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):	3.00	
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:	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:	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. In addition, the primary methods used in the selection of machines and machine concept selection, machine to teach methods of obtaining and using a common machine.	
19	Contribution of the Course to Professional Development:	It contributes to the student's understanding of agricultural business, the use of appropriate machinery and optimization.	
20	Learning Outcomes:		
		1	Learning the importance and scope of agricultural machinery, Management School
		2	Agricultural machines and operating business, learning the basic concepts of
		3	These methods of machine learning and ability to use computational methods to gain success
		4	Machine learning methods for calculating the power requirement and the ability to use these methods to gain
		5	Methods of machine learning and computational cost concepts and their ability to use these methods to gain
		6	The main methods used in the selection of machine selection and machine learning and applying the concept of
		7	Machine learning methods for acquiring and using a common machine
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		10	
21	Course Content:		

Course Content:			
Week	Theoretical	Practice	
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, taxes, insurance costs), the variable costs (fuel, oil, repairs, labor costs)		
8	Depreciation, interest, protection, tax and insurance expenses in the calculation methods used		
9	General Review		
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 used by the selection of agricultural machines		
12	Periods, and field workability workable		
13	Mechanical renovation		
14	Mechanical methods and applications in the world to obtain and use a common machine		
22	Textbooks, References and/or Other Materials:	1. Donnell H., 2001. Farm Power and Machinery Management, Iowa State University Press, (10th edition), 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		NUMBE R	WEIGHT
Midterm Exam		0	0.00
Quiz		0	0.00
Homeworks, Performances		0	0.00
Final Exam		1	100.00

Total	1	100.00
Contribution of Term (Year) Learning Activities to Success Grade		0.00
Contribution of Final Exam to Success Grade		100.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course	The effect of the final exam on the course-passing grade is 100%.	

24 ECTS / WORK LOAD TABLE

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	2.00	28.00
Homeworks, Performances	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	45.00	0.00
Others	0	0.00	0.00
Final Exams	1	60.00	60.00
Total Work Load			130.00
Total work load/ 30 hr			5.83
ECTS Credit of the Course			6.00

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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	4	3	2	4	3	2	4	3	3	2	4	0	0	0	0
ÖK2	4	3	3	3	4	3	2	4	3	3	2	5	0	0	0	0
ÖK3	5	5	3	4	5	3	2	5	3	3	4	5	0	0	0	0
ÖK4	5	5	3	4	5	3	2	5	3	3	4	5	0	0	0	0
ÖK5	3	5	5	4	5	3	2	5	3	3	4	4	0	0	0	0
ÖK6	4	4	3	4	5	3	2	5	3	3	3	5	0	0	0	0
ÖK7	3	3	3	3	3	3	2	4	2	3	3	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
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