



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Work Study In Agricultural Mechanization							
Course Code		ZTM617		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	7	Workload	172 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		The aim of this course is to learn to analyze the time and work in the agricultural processes. Students will learn how to apply time study for analyzing the agricultural works. Students will also learn calculation of work efficiencies of agricultural tools and machines. Cost analysis and cost calculations are the other objectives of this course.							
Course Content		1. Time study 2. Time Study and Concept of Work 3. Analyzing time spend for agricultural mechanization processes 4. Data analysis 5. Calculating work efficiencies of agricultural machines and tools 6. Time and Work analysis 7. Method Study 8. Calculating cost in agricultural processes							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Milli Prodüktivite Merkezi, 1991. İş Etüdü, MPM Yayınları No:29 ANKARA
2	İş ve Zaman Etüdü. Ercan, M.N., 1982. E.Ü. Tekstil Fakültesi Yayınları, No:9, Bornova-İZMİR.
3	Farm Power and Machinery Management. Hunt D., 1977. Iowa State University Pres, IOWA.

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to Time Study
2	Theoretical	Time Study and Concept of Work
3	Theoretical	Time Study in Agricultural Processes
4	Theoretical	Calculating work efficiencies of agricultural machines and tools
5	Theoretical	The methods used to obtain data
6	Theoretical	Time measurement methods
7	Theoretical	Time parts
8	Intermediate Exam	Midterm exam
9	Theoretical	Method study and preliminary calculations
10	Theoretical	Time study for data analysis
11	Theoretical	Cost calculations
12	Theoretical	Calculations of cost for agricultural works
13	Theoretical	Calculations of cost of agricultural systems
14	Theoretical	Examples for time study problems
15	Theoretical	Determination of systems in field works
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	3	70
Assignment	14	0	2	28
Term Project	1	0	30	30
Midterm Examination	1	20	2	22



Final Examination	1	20	2	22
Total Workload (Hours)				172
[Total Workload (Hours) / 25*] = ECTS				7
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To learn Time Study
2	To learn how to Apply time study technique for analyzing time spend for agricultural mechanization processes
3	To comprehend the data analysis
4	To calculate work efficiencies of agricultural machines and tools
5	To apply time study for cost analysis
6	To learn analytical thinking and application

Programme Outcomes (Agricultural Machinery Doctorate)

1	Identification, formulation and solving the problems in the field of Agricultural Machinery
2	The ability to use modern engineering tools and techniques
3	The ability to use the information, which is obtained by following the scientific and technological developments, in the academic life and practice.
4	The ability to evaluate multi-faced relationship between them by understanding interaction among agricultural technology, soil, plants and animals
5	Professionalism and ethical responsibility
6	The ability to work in disciplinary and multi-disciplinary teams
7	The ability to communicate effectively
8	The ability to do research for accessing information and to use data base and other resources
9	The ability to do analyze and interpret the experimental results and the design of experiment
10	The ability to identify and interpret knowledge of current professional issues and events
11	The ability to get aware the universal and social effects of engineering solutions and applications
12	Accordance with the requirements of science and technology, ability to use scientific knowledge creative

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5	L6
P1	5	5	5	4	5	5
P2	5	5	5	4	5	
P3	4	5	5	5	5	4
P4						3
P5	4	5	5	5	5	
P8	4	4	4	4	5	
P9	5	5	5	5	5	4
P10	3	3	3	3	3	3
P12	4	5	4	4	5	4

