



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Design Parametres of Cleaning and Classification Machinery							
Course Code		ZTM606		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	7	Workload	176 (<i>Hours</i>)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		The aim of course is the production of agricultural products in our country, general information about the quantities of imports and exports, The importance of cleaning and classification and processing of the products in exports. To inform students about the basic parameters for cleaning and grading; geometric dimensions of the material, the aerodynamic characteristics of the surface shape and condition, density and specific gravity, electrical conductivity, color capability, taking into account the flexibility of the material cleaning and sorting machines design examples.							
Course Content		The contents of this course is the geometric, aerodynamic, shape, color, electrical, mechanical strength properties and design principles of agricultural products include cleaning and grading machines.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), 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	Physical Properties of Plant and Animal Materials. 1970. Mohsenin, N.N., Gordon and Breach Science Publishers, New York
2	Agricultural Machines, Theory and Construction. 1976. Vol:1-2. Kanafojski, Cz. and Karwowski, T., U.S. Dept. of Commerce, NTIS, Springfield, USA

Week	Weekly Detailed Course Contents	
1	Theoretical	Production of agricultural products in our country, import and export of quantities
2	Theoretical	The importance of cleaning and classification processing products in exports.
3	Theoretical	Geometric dimension properties
4	Theoretical	Aerodynamic characteristics
5	Theoretical	Surface properties
6	Theoretical	Figure features
7	Intermediate Exam	Midterm Exam
8	Theoretical	Density and specific gravity
9	Theoretical	Electrical characteristics
10	Theoretical	Color properties
11	Theoretical	Flexibility
12	Theoretical	Mechanical resistance properties
13	Theoretical	Cleaning equipment design examples
14	Theoretical	Examples of Classification projecting machines
15	Theoretical	Design of cleaning and grading equipments
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Assignment	1	30	30	60
Reading	1	20	20	40
Midterm Examination	1	8	2	10



Final Examination	1	8	2	10
Total Workload (Hours)				176
[Total Workload (Hours) / 25*] = ECTS				7
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Understand the importance of cleaning and classification and processing of the products in exports
2	To be informed about agricultural products, geometric, aerodynamic, shape, color, electrical, mechanical resistance properties
3	Be able to design for cleaning machines
4	Be able to design machines for classification
5	Be able to design machines for classification

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
P1	2	5	5	5
P2	4	5	5	5
P3	4	5	5	5
P4	4	4	5	5
P5	2	4	4	4
P6	5	5	5	5
P7	4	4	4	4
P8	4	5	5	5
P9	2	4	5	5
P10	5	5	5	5
P11	4	4	4	4
P12	4	4	5	5

