



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Laboratory Tests in Seed Science and Isf, Ista, Upov Applications							
Course Code		ZBY522		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	8	Workload	206 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		To teach how laboratory tests are done and its importance in seed science							
Course Content		The importance of tests in seed production, The purpose of tests, Laboratory tests, Laboratory test conditions, devices used, paper test, sand test, cold test, disease test, physical tests, sampling in tests, sample number, Form preparation, Phytosanitary tests, Soil tests, Seed purity tests include seed biology, seedling tests, hectoliter, ISF, ISTA and UPOV applications.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Individual Study					
Name of Lecturer(s)		Prof. Ahmet OKUMUŞ							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Principles of Seed Science and Technology 4th Edition by Lawrence O. Copeland (Author), Miller F. McDonald (Author) 2020. ISBN-13: 978-0792373223 ISBN-10: 0792373227
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Week	Weekly Detailed Course Contents	
1	Theoretical & Practice	Theoretical: Laboratory tests in seed growing Application: Laboratory consumables
2	Theoretical & Practice	Theoretical: The importance and purpose of tests in seed growing Application: Laboratory test equipment
3	Theoretical & Practice	Theoretical: Test Types Application: Materials according to their purpose
4	Theoretical & Practice	Theoretical: Sampling operations Application: Sampling process
5	Theoretical & Practice	Theoretical: Preparation of samples for analysis Application: Preparing blend in samples
6	Theoretical & Practice	Theoretical: Sand Test Application: Sand test application
7	Theoretical & Practice	Theoretical: Paper test Application: Paper test application
8	Intermediate Exam	Midterm exam
9	Theoretical & Practice	Theoretical: Cold test Application: Cold test application
10	Theoretical & Practice	Theoretical: Pathogen test Application: Pathogen test application
11	Theoretical & Practice	Theoretical: Seed purity test Application: Seed purity test application
12	Theoretical & Practice	Theoretical: Seed and Seedling comparison tests Application: Seedling tests application
13	Theoretical & Practice	Theoretical: ISF criteria Application: ISF criteria application
14	Theoretical & Practice	Theoretical: ISTA tests Application: ISTA test application
15	Theoretical & Practice	Variety registration procedures
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	7	2	126
Lecture - Practice	14	3	2	70
Midterm Examination	1	4	1	5
Final Examination	1	4	1	5
Total Workload (Hours)				206
[Total Workload (Hours) / 25*] = ECTS				8

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	The importance of seed tests
2	Compulsary tests
3	Seed Health
4	Quality at Seed Science
5	ISF, ISTA, UPOV applications

Programme Outcomes (*Agricultural Biotechnology Master*)

1	Students learn various techniques and evaluates resources about agricultural biotechnology
2	Make the necessary projects in agricultural biotechnology and to conduct a study of the basic level independently
3	Students learns how to conduct a scientific research and prepares themself for the scientists in the direction of their ideals.
4	Students may reveal new ideas in social and scientific issues and can benefit from the ideas and produce something new winning independent and teamwork skills.
5	Students can use its products for the benefit of humanity, they can produce technology and collaborate with industry

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

	L1	L2	L3	L4	L5
P1	4	4	5	5	5
P2	4	5	5	3	4
P3	5	4	4	4	5
P4	4	4	5	3	4
P5	4	5	4	5	5

