

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Mass Product	ions of Insect	s					
Course Code		ZBK510		Couse Le	vel	Second Cycle	(Master's D	Degree)	
ECTS Credit	8	Workload	203 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the	e Course	In this course,	, the factors al	ffecting rea	ring and the	e insect mass pro	oduction are	e described.	
Course Content		1 41 1							
Course Content		preparation of	insectdiets, n arately. Besid	nass rearin les descript	g of phytopl ions and co	hagous and ento	mophagou	d tools and equip is insects species ind diseases that ca	are
Work Placement		preparation of explained sep	insectdiets, n arately. Besid	nass rearin les descript	g of phytopl ions and co	hagous and ento	mophagou	is insects species	are
	t	preparation of explained sep problems in m N/A	insectdiets, n arately. Besid ass rearing a	nass rearin les descript re also mei	g of phytopl ions and co ntioned.	hagous and ento	omophagou ant pests ar	is insects species ad diseases that c	are

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Singh P. and R.F.Moore (Ed.), 1985. Handbook of Insect Rearing Vol. I). Elsevier Science Publishers B.V. Amsderdam, 488 pp.
2	Singh P. and R.F.Moore (Ed.),1985.Handbook of Insect Rearing (Vol. II. Elsevier Science Publishers B.V. Amsderdam, 514 pp.3.
3	Grenier, S., P.D. Greany and A.C. Cohen, 1994. Potential for mass release of insect parasitoids and predators through development of artificial culture techniques (.Ed.: Rosen, D., F.D. Bennett, J.L. Capinera), 1994.
4	Cohen, A.C., Insect Diets.Science and Technology. CRC Press, USA (2004). 3) van Lenteren, J. C., Quality Control and Production of Biological Control Agents: Theory and Testing Procedures. CABI Publishing, UK (2003).

Week	Weekly Detailed Cours	se Contents
1	Theoretical	The preparation of insects rearing systems
2	Theoretical	Rearing, colonymaintenanceandgeneticvariations of insects
3	Theoretical	Diets (multiplespeciesrearingdiets)
4	Theoretical	Artificialdiets
5	Theoretical	Artificialdiets
6	Theoretical	Mass-rearingof storedproductinsects
7	Theoretical	Natural foods
8	Intermediate Exam	QUIZ
9	Theoretical	Rearing of phytophagousspecies on artificial diets
10	Theoretical	Rearing ofparasitoidsandpredators on thenaturalhost
11	Theoretical	General problems in rearingof entomophagousinsects
12	Theoretical	Diseaserecognition in laboratorycolonies
13	Theoretical	Contaminantcontrol inlaboratorycolonies
14	Theoretical	Qualitycontrol in laboratory-rearedinsects
15	Theoretical	Thepreparation of insectsrearingsystems
16	Final Exam	FINAL EXAM

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Term Project	1	20	1	21
Quiz	2	10	2	24
Midterm Examination	1	50	1	51



				Course Information Form
Final Examination	1	50	1	51
		Тс	otal Workload (Hours)	203
		[Total Workload (Hours) / 25*] = ECTS	8
*25 hour workload is accepted as 1 ECTS				

Learn	ing Outcomes
1	to be able to find out the conditions of insect mass rearing,
2	to be able to find out the natural, artificial and semi- artificial diets of insects
3	to be able to find out the problems that can be occurred on the mass production of insects and solutions
4	
5	

Programme Outcomes (Plant Protection Master)

1	To develop knowledge and abilities that gained during undergraduate education
2	To gain ability to search and pursue current literature
3	To gain ability to plan and write projects that help solving problems in field of study.
4	To gain ability to conduct research, analyze data, evaluate research results scientifically and preapare reports and thesis writing.
5	Students will be able to learn and apply the laboratory test and analysis methods
6	To recognize occupational and ethical responsibility

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	2	2	2	2	2
P2	3	3	3	3	3
P3	4	4	4	4	4
P4	5	5	5	5	5
P5	4	4	4	4	4
P6	4	4	4	4	4