SYSTEMATICS AND BIOLOGY OF ENTOMOPHAGOUS INSECTS

1	Course Title:	SYSTEMATICS AND BIOLOGY OF ENTOMOPHAGOUS INSECTS
2	Course Code:	BIT6008
3	Type of Course:	Optional
4	Level of Course:	Third Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	6.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç.Dr. NİMET SEMA GENÇER
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	e-mail:nsgencer@uludag.edu.tr tel: (90) 224 29 41 574 Uludağ Üniversitesi Ziraat Fakültesi Bitki Koruma Bölümü Görükle Kampüsü Adres :16059 BURSA/ TÜRKİYE
17	Website:	
18	Objective of the Course:	The aim of the course is to give knowledge about systematics and biology of entomofagous insects and use in biological control
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	Students should be able to name and sight-identify all of the hexapod orders and the common local families
	2	To understand distribution in habitats
	3	To know food relations
	4	To know about insect predatory behaviour
	5	To know how to use entomofagous insects in biological control
	6	To know economic importance of predators
	7	To know searching behavior
	8	To know produce solutions to problems
	9	Creating an article, report and Project and evaluating these
	10	If necessary, take professional responsibility as an individual.

21 Course Content:

Course Content:

Week	Theoretical	Practice
1	Biology of Coccinellidae,Life history and biological properties	Examined dry insect materials
2	Distribution in habitats, Food relations	Slides show
3	Dormancy	Slides show

4	Enemies of coccinellidae, Use in biological control	video
5	Biology of Chrysopidae,Life Histories and Behaviour,Development of Chrysopidae	video
6	Feeding habits Predatory behavior of larvae and cannibalism	video
7	The sexual behavior of greenlacewing Flight,dispersal, migration	Slides show
8	Reproductive physology and fecundity Oviposition	Examined dry insect materials
9	Ecology and conservation biology of ground beetles(Coleoptera:Carabidae)	Examined dry insect materials
10	Activity::Daily and Seasonal Feeding:Searching Behaviour,Food Choice	Slide show
11	Reproduction Economic Importance of Ground Beetles	Rearing any entomag insect in climatic condition room
12	Biology of Anthocoridae, Feeding, life history, roles in ecosystem	Rearing any entomag insect in climatic condition room
13	Taxonomy of parasitoids	Using Identification key
14	Biology of parasitoids (Encyrtidae	Slide show

22	Assesment	
	Midterm Exam	0
	Final Exams	0
	Home work-project	1
	Total	2
	Contribution of Term (Year) Learning Activities to Success Grade	20.00
	Contribution of Final Exam to Success Grade	80.00
	Total	100.00
	Measurement and Evaluation Techniques Used in the Course	

23	Materials:	Michael Majerus and Peter Kearns, Biology of Chrysopidae, 1983, Michael Canard, Yves Semeria,T.R. New and E Whittington, Ecology and Conservation Biology of Ground beetles (Coleoptera: Carabidae) 2008, Gabor uzenide taksonomik ve faunistik araştırmalar. Önder, F. 1982.

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	8	5.00	40.00
Homeworks	1	15.00	15.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	0	0.00	0.00
Midterm Exam	1	40.00	40.00
Total Work Load			151.00
Total work load/ 30 hr			5.03
ECTS Credit of the Course			6.00

24	**ECTS / WORK LOAD TABLE**

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
ÖK10	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	**1 very low**		**2 low**			**3 Medium**			**4 High**			**5 Very High**				