DEVELOPMENTAL BIOLOGY									
1	Course Title:	DEVELOPMENTAL BIOLOGY							
2	Course Code:	BYL4004							
3	Type of Course:	Optional							
4	Level of Course:	First Cycle							
5	Year of Study:	4							
6	Semester:	8							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Prof. Dr. Hikmet Sami Yıldırımhan							
15	Course Lecturers:	Prof. Dr. Hikmet S. YILDIRIMHAN							
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: yhikmet@uludag.edu.tr Telefon: 0 224 294 17 90 Uludag University Faculty of Arts and Science Department of Biology Gorukle Campus, Nilufer/BURSA 16059 e-mail: yhikmet@uludag.edu.tr Phone: 0 224 294 17 90							
17	Website:								
18	Objective of the Course:	The aim of the course is to give knowledge about vertebrate and invertebrate development stages.							
19	Contribution of the Course to Professional Development:	The aim of the course is to give knowledge about vertebrate and invertebrate development stages.							
20	Learning Outcomes:								
		1	Describes the theory of the epigenesis and gametogenesis.						
		2	Describes the developmental stages nad reproduction of protozoan species.						
		3	Describes the fertilization, segmentation and division.						
		4	Describes the development in metazoon.						
		5	Describes the mechanisms of morphogenesis and animal development.						
			Describes the environmental factors affecting the development.						
		7 Describes the basic concepts related to developme morphogenesis and tissue formation.							
		8	Various species of animals embryological development and basic principles that describes the factors that affect embryonic development.						
		9							

		10									
21	Course Content:										
	Course Content:										
Week	Theoretical		Р	Practice							
1	The history of developmental biology epigenesis, genetics and development reproduction of viruses.										
2	Cell division, gametogenesis, develop protozoon, sexual reproduction, fertili										
3	Segmentation, division types, developmetazoon.	pment in									
4	Development in Porifera, Coelenterata and Ctenaria										
5	Development in Plathelminthes, Acanthocephala,Nemathelminthes ar Rototaria	nd									
6	Development in Annelida, Mollusca and Arthropoda.										
7	Development in Echinodermata and Chaetognata.										
8	Development in Hemichordata, Chord Cephalochodata.	data and									
9											
Activit				Number	Duration (hour)	Total Work Load (hour)					
Theore	romation of tissues., gastrulation and stimulation of nörons.	u	Γ	14	2.00	28.00					
Practic	als/Labs			0	0.00	0.00					
Self stu	mechanism, environmental factors in dy and preperation development			14	3.00	42.00					
Homew				0	0.00	0.00					
Project	genetically disorders.		L	0	0.00	0.00					
Field S	tudies			0	0.00	0.00					
Midtern 22	Lexams Textbooks, References and/or Other		L	1 ecturer's course notes.	25.00	25.00					
Others				0	0.00	0.00					
Fi <b>23</b> E	Appent (			1	25.00	25.00					
Total W	/ork Load					120.00					
Total work load/ 30 hr Midterm Exam 1				0.00		4.00					
ECTS (	Credit of the Course	-				4.00					
Home v	vork-project	0	0.00								
Final E	xam	1	60.00								
Total		2	1	100.00							
	ution of Term (Year) Learning Activities Grade	es to	40.00								
Contrib	ution of Final Exam to Success Grade	)	60.00								
Total			1	100.00							
Measui Course	rement and Evaluation Techniques Us	sed in the	The writing examination								
24 ECTS / WORK LOAD TABLE											

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