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Type of Course: Optional Level of Course: First Cycle First Cycle Semester: 8 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): 12 Language: Turkish 13 Mode of Delivery: Face to face Course Coordinator: Prof. Dr. ŞABAN GÜVENÇ Contact information of the Course Coordinator: Doc, Dr. Şaban GÜVENÇ e-mail: saban@uludag.edu.tr 0.224.2941793 Fen Edeblyat Fakültesi, Biyoloji Bölümü, Görükle-Bursa Fen Edeblyat Fakültesi, Biyoloji Bölümü, Görükle-Bursa 17 Website: Aim of the course in the male and female reproductive organs of flowering plants, formation, pollination, and types of embryo sac fertilization, embryo formation and development is to inform students about. In this course, students comparative progeny of bryophytes, ferns and flowering plants; a detailed structure of Angiosperm and Gymnosperm flowers, pollen formation and morphology to shape; megaspore formation and the embryo sor formation and or ele in the development of tissues and typ of endosperm, seed development and seed distribution mechani knows. 19 Contribution of the Course to Professional Development: 20 Learning Outcomes: 1 Ability to learn the basic concepts of plant embryology. 2 Ability to understand the importance and the basic principles of reproduction of plants. 3 Ability to learn the organization, function and operation	1	Course Title:	PLANT	EMBRYOLOGY							
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11 Prerequisites: 12 Language: Turkish 13 Mode of Delivery: Face to face 14 Course Coordinator: Prof. Dr. ŞABAN GÜVENÇ 15 Course Lecturers: 16 Contact information of the Course Coordinator: Doç. Dr. Şaban GÜVENÇ e-mail: saban@uludag.edu.tr 0.224.2941793 Fen Edebiyat Fakültesi, Biyoloji Bölümü, Görükle-Bursa 17 Website: 18 Objective of the Course: Aim of the course in the male and female reproductive organs of flowering plants, formation, pollination, and types of embryo sac, fertilization, embryo formation and development is to inform students about. In this course, students comparative progeny of bryophytes, ferns and flowering plants; a detailed structure of Angiosperm and Gymnosperm flowers, pollen formation and morphology to shape; megaspore formation and the embryo sac forming the cell structure and function; self – sterility mechanism embryo formation and role in the development of tissues and typ of endosperm, seed development and seed distribution mechaniknows. 19 Contribution of the Course to Professional Development: 20 Learning Outcomes: 1 Ability to learn the basic concepts of plant embryology. 2 Ability to understand the importance and the basic principles of reproduction of plants. 3 Ability to establish and maintain the connection betwee biodiversity conservation and reproduction.	9	Practice (hour/week):	0.00								
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15 Course Lecturers: 16 Contact information of the Course Coordinator: 17 Doc. Dr. Şaban GÜVENÇ e-mail: saban@uludag.edu.tr 0.224.2941793 Fen Edebiyat Fakültesi, Biyoloji Bölümü, Görükle-Bursa 17 Website: 18 Objective of the Course: Aim of the course in the male and female reproductive organs of flowering plants, formation, pollination, and types of embryo sac, fertilization, embryo formation and development is to inform students about. In this course, students comparative progeny of bryophytes, ferns and flowering plants; a detailed structure of Angiosperm and Gymnosperm flowers, pollen formation and morphology to shape; megaspore formation and the embryo sac forming the cell structure and function; self – sterility mechanism embryo formation and role in the development of tissues and typ of endosperm, seed development and seed distribution mechaniknows. 19 Contribution of the Course to Professional Development: 20 Learning Outcomes: 1 Ability to learn the basic concepts of plant embryology. 2 Ability to understand the importance and the basic principles of reproduction of plants. 3 Ability to establish and maintain the connection betwee biodiversity conservation and reproduction.	13	Mode of Delivery:	Face to	face							
16 Contact information of the Course Coordinator: Doç. Dr. Şaban GÜVENÇ e-mail: saban@uludag.edu.tr 0.224.2941793 Fen Edebiyat Fakültesi, Biyoloji Bölümü, Görükle-Bursa 17 Website: 18 Objective of the Course: Aim of the course in the male and female reproductive organs of flowering plants, formation, pollination, and types of embryo sac, fertilization, embryo formation and development is to inform students about. In this course, students comparative progeny of bryophytes, ferns and flowering plants; a detailed structure of Angiosperm and Gymnosperm flowers, pollen formation and morphology to shape; megaspore formation and the embryo sac forming the cell structure and function; self – sterility mechanism embryo formation and role in the development of tissues and typ of endosperm, seed development and seed distribution mechani knows. 19 Contribution of the Course to Professional Development: 20 Learning Outcomes: 1 Ability to learn the basic concepts of plant embryology. Ability to understand the importance and the basic principles of reproduction of plants. 3 Ability to establish and maintain the connection betwee biodiversity conservation and reproduction.	14	Course Coordinator:	Prof. Dr.	. ŞABAN GÜVENÇ							
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			3	Ability to establish and maintain the connection between biodiversity conservation and reproduction.							
the development and structure of plant generative orga			4	Ability to learn the organization, function and operation of the development and structure of plant generative organs							
5 Ability to search related to Embryology database and to transfer the information from verbal or written.			5	Ability to search related to Embryology database and to transfer the information from verbal or written.							
6			6								
7			7								
8			8								
9			9								
10			10								

21	Course Content:							
		Co	urse Content:					
Week	Theoretical		Practice					
1	Evolutionary trends of Sporophyte- Gametophyte in Plant Life Cycles. Differentiation of reproductive structu	res						
2	Successful adaptations to terrestrial I seed plants. Detailed comparison of t structure of Gymnosperm and angios flower.	he perm						
3	Microsporogenesis and Microgameto Androecium: Stamen, Anther Structu Development, Meiosis, Tetrads of Microspores.							
4	Microsporogenesis and Microgameto Pollen Grain Development and Matur Pollen Wall Structure, Pollen Grain V	ation,						
5	Megasporogenesis and Megagameto Gynoecium, Pistil Development and Structure, Structure of Angiosperm O Meiosis, Tetrads of Megaspores, Em Development, Types of Embryo Sac	vule,						
6	The factors that determine which of the functional megaspore in tetrad of Megaspore in tetrad of Megaspore in tetrad of Megaspore in the factors are the factors and the factors are the factors and the factors are the factors are the factors and the factors are the facto							
7	Pollination (Autogamy): Self-sterility (self): Sporophytic and Gametophytic sterility, Heterostyle, Dichogamy, Her	self						
8	Repeating courses and midterm exar	n						
9	Pollination (Allogamy): pollination typ Stigma and styllus structure and func pollen germination and pollen tube gr situ and in vitro.	tion,						
10	Fertilization: Comparison of fertilization Gymnosperms and angiosperms. Do Fertilization in Angiosperms, Endosper Development, Types of Endosperm Development	uble						
11	Embryo development: Comparison of monocot and dicot embryos.							
12	Apomixis: Types of Sporophytic and Gametophytic apomixis.							
13	Seed formation, germination and type seed.	es of						
14	The importance in the future and the application areas of embryology							
22	Textbooks, References and/or Other Materials:		M. CRESTI, S. BLACKMORE, J:L: Van WENT (1992); Atlas of sexual reproduction in flowering plants. R. CZAPIK (2000); Plant Embryology: Past, Present, Future. M. ÜNAL (1988); Bitki (Angiosperm) Embriyolojisi.					
23	Assesment							
TERM LEARNING ACTIVITIES NURSE R			WEIGHT					
Midterm Exam 1			40.00					
Quiz		0	0.00					
	work-project	0	0.00					
Final Exam			60.00 100.00					
Total		2	100.00					

Contribution of Term (Year) Learning Activities to Success Grade	40.00
Contribution of Final Exam to Success Grade	60.00
Total	100.00
Measurement and Evaluation Techniques Used in the Course	
24 ECTS / WORK LOAD TABLE	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	4.00	56.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	14.00	14.00
Others	0	0.00	0.00
Final Exams	1	22.00	22.00
Total Work Load			134.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

ECTS Credit of the Course									4.00							
25									NING OUTCOMES TO PROGRAMME ALIFICATIONS							
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	3	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	5	0	3	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	5	0	2	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	5	0	4	3	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low 3 Med			Medi	lium 4 High				5 Very High					