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MARMARA UNIVERSITY

Institute of Graduate Study for Pure and Applied Sciences

Physics Department - Physics Program

SYLLABUS

		2016-2017 Fall and Spring Semesters										Course Level: Yüksek Lisans (Second Cycle)							
Course Code	9	Course Name			ame			Cou	urse Ty	se Tyne		urse Po if any			ekly Hours U	Credits	ECTS Credits	Semest er	
BYL8012.1	Mole	cular E	Ecolog	S y			;	Zorunlu	ı				3						
Prerequisite Courses (Course Code and Name, Min Letter Grade to success)					Prerequisite to (Course Code and Name, Min Letter Grade to si					e to suc	cess)	V	Veekly		& Classr Hours, Clas	oom Sche	dule		
<bu adı,="" bağlayan="" dersi="" derslerin="" hb="" kodu,="" min="" önceki=""> {Her bir dersi birbirinden noktalı virgülle ayırınız.}</bu>						<bu adı,="" bağladığı="" dersin="" derslerin="" kodu,="" min<br="" sonraki="">{Her bir dersi birbirinden noktalı virgülle ayırınız.</bu>													
Course Lecturer	Doç. [Dr. N. C	enk SE	SAL		Teaching Assistant(s)						<title, name,="" surname=""></title,>							
Office	C223									Office									
el / Extention	1581	L								Tel / E	xtenti	on							
-mail	cses	sal@marmara.edu.tr								E-mail									
Web										Web									
Office Days and lours		Pazartesi 08 30- 09 30							Office I	Days an	ıd								
Course Objectives																			
	Cou	ırse w	eb pa	ges:															
Textbooks	1	Çevre	ve Eko	oloji 20:	10														
and/or References	2	Ekoloji ve Çevre Aaraştırmaları 2018																	
Recommended	3 Molecular ecology 2011																		
Reading)	4	Articles																	
	5																		
	1	The definition of molecular ecology will be understood																	
	2	Explai	n the b	oiologic	al met	hods u	sed in	molecu	ılar ecc	ology ar	nd the	reason	s for th	eir use	è				
Learning	3	Will b	e able 1	to expl	ain the	metho	ds use	d in m	olecula	ar ecolo	gy and	d at wh	ich stag	ges.					
Outcomes	4																		
	5																		
	6																		
						Pro	Program Gains / Outputs					1:Week; 2:Medium; 3:S						trong	
	PG1	PG2	PG3	PG4	PG5	PG6	PG7	PG8	PG9	PG10	PG11	PG12	PG13	PG14	PG15		Course L	earning Ga	ins
Program Gains	3	3	2	3	3	3	3	2	2	2	3	3				LG1 Th	ne definitio	on of mo	
X	2	3	3	3	2	3	2	3	2	2	3	3				LG2 Ex	plain the I	oiologic	
Course Learning Gains	3	3	2	3	3	2	2	3	2	3	3	3				LG3 W	ill be able	to expl	
																LG4			
Matrix																LG5			
																LG6			
	3	3	2	3	3	3	2	3	2	2	3	3	0	0	0	TOTAL	EFFECT		
Language of			Lea	arning	Activ	ity an	d Tead	ching I	Metho	ods					Co	ourse F	resentat	ion	
Instruction																			

<expression/presentaton, question-answer, discussion, problem solving, case study, experiments/laboratory, observation, tripping dramatisation, project, however, etc.</p>

	homework, etc.>	, ,							
Date	Course Contents (Topics)	Reference No - Section							
	What is Molecular Ecology: Overview								
	Laboratory rules in Molecular Ecology								
	Introduction of instruments used in Molecular Biology								
	Methods Used in Molecular Ecology; centrifugation, electrophoresi methods, chromatography	s, homogenization							
	DNA Isolation and Analysis								
	RNA Isolation and Analysis								
	Polymerase chain reaction (PCR)								
	Midterm								
	Gene sequencing types								
	Isolation and purification of proteins								
	Determination of concentration of proteins and electrophoretic and	alysis							
	Methods based on nucleic acid and protein hybridization								
	Basic principles of enzymatic analysis and enzyme activity determin	ation methods							
	Spectroscopic techniques								
	Cell culture and microbial techniques								
	Study Week								
	Final Exam Week								
valuation Metho	d YSSL (BDS) BNAL (BDS) BDKL (BD	S) Grade Calculation							
		What is Molecular Ecology: Overview Laboratory rules in Molecular Ecology Introduction of instruments used in Molecular Biology Methods Used in Molecular Ecology; centrifugation, electrophoresi methods, chromatography DNA Isolation and Analysis RNA Isolation and Analysis Polymerase chain reaction (PCR) Midterm Gene sequencing types Isolation and purification of proteins Determination of concentration of proteins and electrophoretic and Methods based on nucleic acid and protein hybridization Basic principles of enzymatic analysis and enzyme activity determin Spectroscopic techniques Cell culture and microbial techniques Study Week Final Exam Week							

Bağıl Değerlendirr	ne Sistemi (BDS)			, , , , ,	erlendirmesi ve yarıyıl/yıl sonu otlarından hesaplanır.
	Evaluation Tool	Quantity Date		Weight in Total (%)	Weight in Semester Evaluation (%)
	Final	1		60,00	0,00
	Resit (Final Make-up) Exam (if exists)			60,00	0,00
	Semester Evaluation			40,00	100,00
Assessment Methods	Midterm(s)	1		10,00	25,00
and	Quiz(es)				
Criteria	Project(s)	1		10,00	25,00
	Homework(s)	1		10,00	25,00
	Laboratory / Workshop				
	Presentation/ Seminar / Demo				
	Research / Report / Other	1		10,00	25,00
	Presents to course				

Student Workload (ECTS Credit) Calculation												
Evaluation Tool	Hour/Quan tity	Workload Hours	Evaluation Tool	Hour/Quan tity	Workload Hours	Evaluation Tool	Hour/Qu antity	Workload Hours				
Theoretical hours			Midterm & preparation			Laboratory/Atelier & preparation						
Application hours			Quiz & preparation			Presentation & preparation						
Pre-class and Post-class self study			Project & preparation			Research & preparation						
Pre and post-application self study			Homework & preparation			Final & preparation						

Total Student Workload Hours: 0 1 ECTS Credits = 25 Student Workload Hours

Workload Calculation: