



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Phylogenetic							
Course Code		TBY427		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	3	Workload	73 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The theory, practical applications and basic of phylogenetic systematic are aimed to comprehend.							
Course Content		The phylogenetic systematic: Overview of systematics, basic phylogenetic analysis, Molecular approaches, Selecting suitable molecular markers, Molecular phylogenetic.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Project Based Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	Başibüyük, H.H., Bardakçı, F., Belshaw, R., Quicke, D.L.J., Phylogenetic Systematics. ss. 134, Önder Matbaa, Sivas. □ İlave Kaynak □ [2] Wiley, E.O., Lieberman, B.S., Phylogenetics: Theory and Practice of Phylogenetic Systematics, Second Edition. Ss. 432, Wiley-Blackwell, New Jersey. □
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Week	Weekly Detailed Course Contents	
1	Theoretical	Overview of systematics
2	Theoretical	Character argumentation
3	Theoretical	Basic phylogenetic analysis
4	Theoretical	Basic phylogenetic analysis
5	Theoretical	Molecular approaches
6	Theoretical	Molecular approaches
7	Intermediate Exam	Midterm
8	Theoretical	Selecting suitable molecular markers
9	Theoretical	Selecting suitable molecular markers
10	Theoretical	Molecular phylogenetic
11	Theoretical	Molecular phylogenetic
12	Theoretical	Phylogenetic evaluation
13	Theoretical	Phylogenetic evaluation
14	Theoretical	Phylogenetic evaluation
15	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Individual Work	10	0	4	40
Midterm Examination	1	2	1	3
Final Examination	1	1	1	2
Total Workload (Hours)				73
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	
2	



3	
4	
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6	

Programme Outcomes (Agricultural Biotechnology)

1	To be able to develop skills in identifying, modeling and solving problems in agricultural biotechnology
2	To be able to synthesize life and engineering sciences for the effective resource planning of agricultural biotechnology applications
3	To be able to interpret about living organisms structure, metabolic and physiological processes in order to propose biotechnological solutions to the agricultural problems
4	To be able to analyze genomic, metabolomic and proteomic information via bioinformatic tools.
5	To have the ability to analyze collected data and interpret the results.
6	To have the ability of individual working ability and to make independent decisions, to work in inter-disciplinary and interdisciplinary teamwork, to communicate by expressing their ideas orally and in writing, clearly and concisely
7	To have the awareness of professional liabilities and ethics
8	To be able to follow current national and international problems

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5	L6
P1	3	3	5	5	3	3
P2	2	2	5	5	2	2
P3	4	4	3	3	4	4
P4	4	4	5	4	4	4
P5	3	3	4	4	3	3
P6	2	2	3	3	2	2
P7	1	1	1	1	1	2
P8	1	1	1	1	1	2

