GENOME ANALYSIS IN PLANTS

1	Course Title:	GENOME ANALYSIS IN PLANTS
2	Course Code:	BIO6414
3	Type of Course:	Optional
4	Level of Course:	Third Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	3.00
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:	Dr. Ögr. Üyesi FİGEN ERSOY
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	e-posta: figen@uludag.edu.tr 0 224 29 41776 Fen-Edebiyat Fakültesi, Moleküler Biyoloji ve Genetik Bölümü, Görükle Kampüsü, 16059 Bursa
17	Website:	
18	Objective of the Course:	The aim of the course is to teach the methods that are used genome analysis of plants. Objective of the course is to teach new techniques and to expand the student's experimental point of view.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Analyse and solve plant science and biotechnology problems using an integrated multidisciplinary approach.
	2	Integrate and evaluate critically information from various sources.
	3	Plan, conduct and write a programme of original research.
	4	Use modern information and communications technologies.
	5	Critically evaluate scientific publications.
	6	Communicate effectively through oral presentations
	7	Devise experimental methodologies for plant science and biotechnology problems
	8	Transfer techniques and solutions from one discipline to another.
	9	
	10	

21	Course Content:

Course Content:

Week	Theoretical	Practice
1	Introduction	
2	RFLP, AFLP	
3	SSR, RAPD	
4	EST,STS	
5	Physical and genetic mapping	
6	Important plant characters	
7	Data mining in plants and their applications	
8	Gene sequencing	
9	QTL analysis	
10	Paper presentation 1&2	
11	Paper presentation 3&4	
14	Paper presentation 9&10	
15	Textbooks, References and/or Other	1 Current Articles

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	1	15.00	15.00
Homeworks	3	20.00	60.00
Projects	1	30.00	30.00
Field Studies	0	0.00	0.00
Midterm exams	1	25.00	25.00
Others	0	0.00	0.00
Final Exams	1	40.00	40.00
Total Work Load			212.00
Total work load/ 30 hr			7.07
ECTS Credit of the Course			5.00

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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Quiz	0	0.00
Final Exam	1	60.00
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**

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	4	5	5	4	5	4	5	5	5	0	0	0	0	0	0	0
ÖK2	5	4	5	5	5	5	5	4	5	0	0	0	0	0	0	0
ÖK3	5	4	5	4	5	4	5	4	5	0	0	0	0	0	0	0
ÖK4	5	5	4	5	4	5	4	5	5	0	0	0	0	0	0	0
ÖK5	4	5	5	5	4	5	5	4	5	0	0	0	0	0	0	0
ÖK6	5	5	4	4	5	5	4	4	5	0	0	0	0	0	0	0
ÖK7	5	4	5	4	5	4	4	5	5	0	0	0	0	0	0	0
ÖK8	5	4	5	4	4	5	5	5	5	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**			