

VERMICOMPOSTING

1	Course Title:	VERMICOMPOSTING	
2	Course Code:	TOP5969	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	6.00	
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:	Prof. Dr. HALUK BAŞAR	
15	Course Lecturers:	Prof. Dr. Haluk BAŞAR	
16	Contact information of the Course Coordinator:	bhaluk@uludag.edu.tr, 0224 2941533 U.Ü. Ziraat Fakültesi Toprak Bilimi ve Bitki Besleme Bölümü Nilüfer - BURSA	
17	Website:		
18	Objective of the Course:	To learn basic principles of vermicompost and how to prepare vermicompost from various organic matters	
19	Contribution of the Course to Professional Development:	Contribution to vermicompost production and application.	
20	Learning Outcomes:		
		1	To know basic principles of vermicomposting
		2	To know earthworms used in vermicomposting
		3	To know quality parameters of vermicompost
		4	To know how to prepare vermicompost tea
		5	To know how to prepare vermicompost from various organic wastes
		6	To know effects of vermicompost soil fertility and crop production
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Introduction to Vermicomposting and basic concepts		
2	Differences between vermicomposting and aerobic composting		
3	Earthworms used in vermicompost		
4	Necessary conditions for vermicompost production		

5	Physical, chemical and biological quality properties of vermicompost	
6	Methods of vermicompost production	
7	Harvest of earthworms in vermicomposting	
8	Production of vermicompost tea	
9	Use of vermicompost against to soil borne diseases and plant diseases.	
10	Production of vermicompost from agricultural, household and industrial wastes	
11	Significance of vermicompost as an organic matter	
12	Effects of vermicompost in crop production	
13	The conditions considered in planning of vermicompost production	
14	Importance of vermicompost in agriculture and general evaluation	

22	Textbooks, References and/or Other Materials:	<p>1. Vermikompost (Solucan Gübresi) Çalıştayı El Kitabı. TC Kayseri Valiliği İl Gıda Tarım ve Hayvancılık Müdürlüğü. Kayseri – 2016.</p> <p>2. Biology of Earthworms, 2011. In: Karaca, A. (Ed.). Soil Biology, Springer-Verlag Berlin, Heidelberg. ISBN: 978-3-642-14635-0. P.316.</p> <p>3. Management of Organic Waste, 2012. In: Kumar, S. and Bharti, A. (Eds.). InTech, Rijeka, Croatia. ISBN: 978-953-307-925-7. P.198.</p> <p>4. Microbes at Work: From Wastes to Resources, 2009. In: Insam, H., Franke-Whittle, I. and Goberna, M. (Eds). Springer-Verlag, Berlin, Heidelberg. ISBN: 978-3-642-04042-9. P.329.</p>
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23	Assesment	
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	0	0.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	100.00
Total	1	100.00
Contribution of Term (Year) Learning Activities to Success Grade		0.00
Contribution of Final Exam to Success Grade		100.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course	Measurement and evaluation techniques used in the course is final exam.	

24	ECTS / WORK LOAD TABLE
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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	14	6.00	84.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	2	8.00	16.00
Midterm exams	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	35.00	35.00
Total Work Load			177.00
Total work load/ 30 hr			5.90
ECTS Credit of the Course			6.00

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	3	0	3	0	4	4	0	0	0	0	0	0	0	0	0
ÖK2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	4	0	3	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	3	0	0	0	0	4	3	3	3	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			