

DESCRIPTION FORM OF COURSE								
Course Code and Name: AIT101 Atatürk's First and Revolution History-I			Program	: Organ	ic Farming			
Semester	Theory	Prac.	Total	Credits	ECTS	Language of Course	Course Type Compulsory/Elective	
Fall Semester	2	0	2	2	2	Turkish	Compulsory	
Prerequisites of C	ourse	There are no	prerequisite	S.				
Course Instructor								
Aims of Course		It aims to let the student who attends the courses to acquire the ability of classification, description, explanation, analysis of the current social and individual problems in Turkey by taking rationality and science, norms of modernity into account with respect to the Kemalist thought and the Turkish Revolution					urrent social and science, norms of	
Course Learning and Compet	•	1.Have knowledge about the developments in European History, and Ottoman modernization 2. Have knowledge about the causes of the Collapse of the Ottoman Empire 3. Have knowledge about the First World War 4. Have knowledge about the Turkish National Struggle 5. Have knowledge about the founding philosophy of the Republic of Turkey.					ttoman Empire	
Textbooks and /or Other Required Materials  Images/visuals, slides, vi				ideos and lecture notes on the course content.				
Method of deliv	•	Online						
Teaching Met Techniq		Explanation,	Question-A	nswer				

		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		



	Semester Final Exam	X	60
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	Semester Course Plan						
Week	Syllabus						
1	Concepts Related to the Revolution						
2	Developments in European history, and their impact on the Ottoman Empire						
3	19th century reform movements in the Ottoman Empire (Tanzimat period, the First Constitutional Period)						
4	The second constitutional era, trends and movement in Turkish Political thought, the Turco-Italian war 1911), the Balkan Wars(1912-1913)						
5	World War I and the Ottoman Empire (outbreak of the war, participation of the Ottoman Empire, the fronts, and the end of the war), the signing of the Mondros Armistice						
6	Invasions and reactions against them, Kuva-yı Milliye, Societies (national, associations hostile to the national presence, and societies of the minorities), the difficulties after the armistice, Mustafa Kemal Pasha's activities and arrival in Anatolia.						
7	The mudros armistice, Turkish national struggle preparations organization						
8	Midterm						
9	The beginnings of the national struggle through organization of Congresses (Amasya Circular, Erzurum, Sivas and Western Anatolian Congresses,).						
10	Amasya interview, the arrial of the Representatives in Ankara, the last Ottoman Parliament, the adoption of the National Pact, the invasion of Istanbul						
11	The opening of the Grand National Assembly of Turkey, the Assembly's structure, its activities and laws, domestic and foreign reactions to the opening of Parliament.						
12	Dissolution of the national forces, and founding of the regular army, the Greek general attack, and wars in the Western Front						
13	Mustafa Kemal Pasha's supreme military command, Tekâlif-i Milliye orders, Sakarya War and foreign policy developments in its aftermath (Turkish-Russian, Turkish-Afghan relations, the London Conference, Ankara Agreement)						
14	The Great Offensive, and signing of the Mudanya Armistice, the developments before the Lausanne Conference, the conference and the signing of the peace agreement						
15	Final exam						



	DESCRIPTION FORM OF COURSE							
Course Code and Name: AIT102 Atatürk's First and Revolution History-II			irst and	Program: Organic Farming				
Semester	Theory	Prac.	Total	Credits	Course Type Compulsory/Elective			
Spring	2	0	2	2	2	Türkish	Compulsory	
Prerequisites of C	Course	There are no p	prerequisite	S.				
Course Instructor								
Aims of Course		Understanding the Turkish National Struggle and Atatürk's Principles and Revolutions					rk's Principles and	
Course Learning and Compe	_	1.Have knowledge about Ataturk's reforms 2.Have knowledge about the Turkish Foreign Policy in Ataturk's period 3.Have knowledge about Ataturk's principles 4.Have basic level of knowledge about the political developments in Turkey and world during and after the Second World War.					•	
Textbooks and /or Other Required Materials  Images/visuals, slides, videos and lecture notes on the course contents				e content.				
Method of deliv	•	Online						
Teaching Met Techniq		Explanation, Question-Answer,						

		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		



Semester Final Exam	X	60
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	Semester Course Plan						
Week	Syllabus						
1	Factors as the basis and motives of political modernization: the abolition of the dynasty, The establishment of the Republic, the abolition of the Caliphate. Debates concerning the Dynasty-Caliphate and Republic on the eve of the new state						
2	The foundation of the Progressive Republican Party, Sheikh Said Rebellion, declaration of the tranquility law and the attempted assassination of Atatürk.						
3	The foundation of the Free Republican Party, The rally of Izmir, closing the party, Menemen and Bursa events.						
4	The Constitution of 1924, other constitutions, the developments in the area of law, reforms regarding the regulation of social life and the process of secularization of the Republic of Turkey						
5	Reforms related to education and Culture (the Unification of the Education, introduction of the Latin letters, National Schools, establishment of Turkish history and Turkish Language Institutions and their activities, Turkish history thesis, the sun-language theory, 1933 university reform, (the People's Houses)						
6	Healthcare developments						
7	Izmir Economic Congress, economic policies in the first years of the Republic, the World Economic Depression in 1929 and its reflection on the statist economic policy agenda of Turkey, and the I. Five-Year Development Program.T						
8	Midterm						
9	Kemalist Thought System, its scope and Principles (republicanism, secularism, nationalism, populism, statism, reformism) and threats to those principles.						
10	The Atatürk Era and Turkish Foreign Policy in the Interwar Period I (1923-1930): Turkey's bilateral relations with the European states following the Lausanne Treaty						
11	Turkish Foreign Policy in the Interwar Period II (1930-1938)						
12	II. World war						
13	The second World war and Turkey						
14	Developments in the second world war						
15	Final exam						



	DESCRIPTION FORM OF COURSE									
Course Code and Products	Course Code and Name: TTO401 Marketing of Organ Products					Program: Organic Farming				
Semester	Theory	Prac.	Total	Course e						
Spring Semester	3		3	3	4	Türkish	Compulsory			
Prerequisites of C	Course	There are no	prerequisites							
Course Instructor		Assoc. Prof. D	r. Mikail Aça	ar We	e <b>b :</b> ps://www.n		zur.edu.tr :/birimler/akademik/myo/t es/akadro.aspx			
Aims of Course  The aim of this course is to teach the basic concepts, processes and strate to marketing organic products; to analyze the differences of organic products, the determination of target markets, consumer branding and labeling practices; and to understand important issues sustainability, quality assurance and legal regulations in the organic products.					of organic products from s, consumer preferences, aportant issues such as					
Course Learning and Compete		<ol> <li>Explains the marketing processes and basic concepts of organic products.</li> <li>Can evaluate target market analysis and consumer behavior.</li> <li>Understands the branding, labeling and certification processes of organic products.</li> <li>Applies sustainability and quality assurance principles in organic marketing.</li> <li>Can develop strategic marketing plans for the marketing of organic products.</li> </ol>								
Marangoz, M. (2008). Organik ürünlerin pazarlanması. Ekin Kitabevi.  Textbooks and /or Other Required Materials										
Method of deliv	•	Face to face / Hybrid								
Teaching Met Techniq		Explanation, q	uestion-answ	er, discussi	ion, practic	ee				



		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan					
Week	Syllabus					
1	Marketing Concept and Introduction to Organic Marketing					
2	Definition of Organic Products and Organic Agriculture Market in Turkey					
3	Consumer Behavior and Organic Product Demand					
4	Marketing Research and Market Segmentation					
5	Basic Features of Organic Products and Marketing Opportunities					
6	Certification and Legal Regulations in Organic Products					
7	Branding and Packaging in Organic Products					
8	Midterm Exam					
9	Distribution Channels of Organic Products					
10	Pricing Strategies in Organic Products					
11	Digital and Social Media in Organic Product Marketing					
12	Sustainability and Ethical Marketing in Organic Products					
13	Consumer Trends and Market Trends in Organic Products					
14	Final Exam					



COURSE DEFINITION FORM								
Course Code and Name: GON101Volunteering Activities				Program: Organic Farming				
Semester	Theory	APPLICAT ION.	Total	Cred	its EC	ECTC	Course Language	Course Type Compulsory/Elective
Fall Semester	1	2	3	2	2		Turkish	Elective
Course Prerequisi	ites	There are no p	prerequisites.		·			
Course Instructor		Prof. Dr. Num	an YILDIRI	M	Web:	ade	mik.yok.gov	munzur.edu.tr .tr/AkademikArama/vie
Objectives of the O	Course	The aim is to strengthen the ties between the university and society by using the knowledge, skills and accumulation that students acquire throughout their education life, to ensure the development of human, social, cultural and moral values and skills through some volunteering activities that they will participate and carry out, to increase the visibility and awareness in society on issues that are very sensitive to society such as disabled life, migration and disaster, and thus to enable students to do volunteer work in a volunteering area of their choice for a certain period of time within the scope of a plan to be prepared in advance and to share the results.						
Course Learning Outcomes and Competencies		<ol> <li>Learn the concept of volunteering and volunteer management.</li> <li>Recognize the concept of civil society and non-governmental organizations</li> <li>Recognize the concept of civil society and non-governmental organizations</li> <li>Gain knowledge and skills about volunteering and volunteer management in non-governmental organizations.</li> <li>Learn the basic areas of volunteering</li> <li>Understands the importance of community service practices</li> <li>Can produce projects to find solutions to current problems of society.</li> <li>Gains experience in Social Responsibility and Social Entrepreneurship</li> </ol>						
Textbooks and/or Other Required Materials  Current reports from international and national and n			and nation	nal	organizations	3		
Course presenta		Face to face, Online						
Teaching Met Techniq		Explanation, presentation, group work, field work						

	If yes, please mark (X).	Percentage (%) Contribution to the Overall Average
1. Midterm Exam	X	40
2. Midterm Exam		



Evaluation Criteria	3. Midterm Exam		
	Oral examination		
	Applied Exam (Laboratory, Project, etc.)	X	60
	Final Exam		

	Term Lesson Plan
Week	Curriculum
1	Management and Organization Concepts
2	The Concept of Volunteering and Volunteer Management
3	The Concept of Civil Society and Non-Governmental Organizations (NGOs)
4	State and Civil Society in Türkiye
5	Volunteering in Civil Society Organizations, Volunteer Management
6	Main areas of volunteering (Afad, Environment, Education, Culture, Sports, Health, Social Services)
7	Main areas of volunteering (Afad, Environment, Education, Culture, Sports, Health, Social Services)
8	Midterm Exam
9	The importance of community service practices
10	Identifying current problems of society and producing projects that will provide solutions
11	Identifying current problems of society and producing projects that will provide solutions
12	Social Responsibility and Social Entrepreneurship
13	Application Examples
14	Evaluation of Produced Projects



DESCRIPTION FORM OF COURSE							
Course Code and Name: LTP220 Entrepreneursh				p Program: Organic Farming			
Semester	Theory	Prac.	Total	C III ECTEC			Course Type Compulsory/Elective
Spring	2	0	2	2	2	Türkish	Elective
Prerequisites of C	Course	There are no p	orerequisites.				
Course Instructor							
Aims of Course		It is the training of entrepreneurial individuals by developing their conceptual a application skills in entrepreneurship and innovation.					ing their conceptual and
Course Learning and Compe		<ol> <li>1.Knows the meaning and importance of entrepreneurship.</li> <li>2.Develops their entrepreneurship and innovation comprehension skills.</li> <li>3.Gains skills to evaluate their talents in terms of entrepreneurship by having innovative approaches.</li> <li>4.Gains the ability to develop creative and innovative approaches to business problems.</li> </ol>					repreneurship by having
Textbooks and Required M		- Entrepreneurship, Orhan Küçük, Seçkin Publications, Ankara, 2013. -Innovation and Entrepreneurship, P.Drucker, First Harper Ltd, 1985 -Lecture Notes					The state of the s
Method of deliv	•	Face to face, Online					
Teaching Met Techniq		Explanation, presentation, group work, Preparing a business plan					

		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)	X	60



	Semester Final Exam		
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	Semester Course Plan					
Week	Syllabus					
1	Entrepreneurship in practice and general characteristics of entrepreneurs					
2	Creativity and innovation concepts and applications					
3	Innovation models					
4	Innovative business ideas and applications					
5	Business Plan scope and content for new ventures					
6	Production, Marketing and Financial Planning in Entrepreneurship					
7	Strategic planning applications for new ventures					
8	Midterm Exam					
9	Marketing plan applications for new ventures					
10	Production planning applications for new ventures					
11	Financial planning for new ventures					
12	Intellectual asset management					
13	Writing and presentation of business plans					
14	Writing and presentation of business plans					



DESCRIPTION FORM OF COURSE							
Course Code and Name: ORG111 Botany				Program: Organic Farming			
Semester	Theory	Prac.	Total	Credits	Credits ECTS Languag Course Type Compulsory/Elec		
Spring Semester	2	0	2	2	2	Turkish	Elective
Prerequisites of C	Course	There are no p	prerequisite	S.			
Course Instructor	•	Assoc. Prof. Di	r. Mikail Aç	ear We	e <b>b :</b> os://www.r		zur.edu.tr :/birimler/akademik/myo/t es/akadro.aspx
Aims of Course		The aim of this course is to enable students to understand the structure, develor classification and interrelationships of plants based on scientific principles; to basic information about plant cells, tissues, organs, reproduction method systematic groups; and to provide the ability to evaluate the relationships of with environmental factors and their ecological roles.				ific principles; to provide production methods and ne relationships of plants	
Course Learning and Compete	of plants.  3- Understand  4- Evaluates t  5- Gains the a	sic informated in the reactions in the bility to app	tion about the life cycle, rest of plants to ply botanical	e classification	ation and mon	rphological characteristics	
Textbooks and Required M							y. Jones & Bartlett
Method of deliv	•	Face to face / Hybrid					
Teaching Met Techniq		Explanation, qu	iestion-ansv	wer, discussi	on, practic	e	



		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan					
Week	Syllabus					
1	Introduction and Plant Cell					
2	Plant Tissues and Meristems					
3	Root Morphology and Anatomy					
4	Stem Morphology and Anatomy					
5	Leaf Morphology and Anatomy					
6	Flower Morphology and Reproductive Organs					
7	Seed and Fruit Morphology					
8	Midterm Exam					
9	Introduction to Plant Systematics					
10	Plant Taxonomy and Classification Methods					
11	Major Plant Groups: Algae, Bryophyta, Pteridophyta					
12	Major Plant Groups: Gymnosperms and Angiosperms					
13	Plant Ecology: Habitat, Population and Communities					
14	Final Exam					



	DESCRIPTION FORM OF COURSE						
Course Code and Name: ORG 222 Plant Physiol			ysiology	Program: Organic Farming			
Semester	Theory	Prac.	Total	Credits ECTS Languag Course Type c of Compulsory/E Course e			
Spring Semester	2	2	4	3	5	Turkish	Compulsory
Prerequisites of C	Course	There are no p	prerequisite	s.			
Course Instructor	r	Assoc. Prof. Dr	. Mikail Aç	ear We	e <b>b :</b> os://www.r		zur.edu.tr :/birimler/akademik/myo/t es/akadro.aspx
Aims of Course		The aim of this course is to provide a physiological understanding of the laprocesses of plants; to explain basic physiological events such as water and mine intake, photosynthesis, respiration, growth and development, the effects of hormon and plant responses to environmental stress factors; to enable students to understathe functioning mechanisms of plants and to apply this information in areas such agriculture, plant breeding and biotechnology.					uch as water and mineral, the effects of hormones, le students to understand
1- Explains the physiological procand water intake.  2- Recognizes the functions of plase and Competencies  3- Evaluates the physiological research description of the competencies are described by the competencies and Competencies are described by the competencies are described			ons of plant legical respons	normones a ses of plan	and growth rents to environ	egulators. mental stress factors. nations of plants.	
Textbooks and Required M		5- Apply plant physiology knowledge in the fields of agriculture and biotechnolo Kaya, A., Akbulut, G. B., & Murathan, Z. T. Meslek Yüksekokulları İçin Bitki Fizyolojisi. Nobel Akademik Yayıncılık.					
Method of deli	•	Face to face / Hybrid					
Teaching Met Techniq		Explanation, qu	estion-ansv	wer, discussi	on, practic	ee	



		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan
Week	Syllabus
1	Plant Cell and Chemical Composition
2	Water and Cell
3	Plant-Soil-Water Relations
4	Water Loss in Plants
5	Enzymes
6	Nitrogen Metabolism
7	Photosynthesis
8	Midterm Exam
9	Respiration
10	Growth and Development in Plants
11	Plant Movement Physiology
12	Plant Hormones and Their Functions
13	Field Studies in the Application Area
14	Final Exam



	DESCRIPTION FORM OF COURSE							
Course Code and Name: TTO 170 Food Biology			Program: Organic Farming					
Semester	Theory	Prac.	Total	Cre	Credits ECTS Language Course Type of Course Compulsory/Eld		Course Type Compulsory/Elective	
Fall Semester	3	0	3	3	,	3	Turkish	Compulsory
Prerequisites of C	ourse	There are no p	rerequisites.					
Course Instructor		Prof. Dr. Rahr	Prof. Dr. Rahmi AYDIN  Mail: raydin@munzur.edu.tr Web:  https://scholar.google.com/citations?hl=tr&us =RIVWw4MAAAAJ					
Aims of Course		Biomolecules and living things. Cell and its properties. Properties of living things (organization, metabolism, morphology, etc.). Energy transformations in living things. Providing information on the properties of plant and animal living things as food.						
Course Learning Outcomes and Competencies		of living thin 2. To underst proliferation. 3. To gain the cells. 4. To learn be respiration) a 5. To underst 6. To underst 7. To underst source.	gs.  and basic in  e ability to u  asic informa  and other bio  and basic in  and basic in  and the pote  sic informat  s.	forma inderst tion al logica forma forma ential o	tion tand bout all eye tion tion of pla	about cellsubstance energy to eles in live about an and an the formation of the collection of the coll	Il organization transformation things. It issues a mimal tissues and the mimal tissues and the mimal tissues and the mimal tissues attion and furnitudes.	es and the formation on, types and cell and synthesis events in ons (photosynthesis, and their properties. and their properties. as to be used as a food actions of plant and food source.
Textbooks and /or Other Required Materials		Soil Analysis, Burhan Kaçar, Expanded 2nd Edition, Nobel Publications, Ankara, 2009						
Method of deliv	~	Face to face,	Face to face,					
Teaching Methods and Techniques		Explanation, question-answer, presentation, practice, analysis						

	If yes, please mark (X)	Percentage (%) Contribution to the
	()	Overall Average



	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
Evaluation Criteria	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan
Week	Syllabus
1	The concept of living being, the characteristics that determine living beings
2	Biomolecules and their characteristics
3	Cell and cell molecular organization
4	Cell division and their characteristics
5	Transportation of matter in the cell
6	Photosynthesis and chemosynthesis mechanism
7	Aerobic and anaerobic respiration mechanism
8	Plant tissues and their characteristics
9	Midterm exam
10	Plant organs and their characteristics
11	Animal tissues and their characteristics
12	Muscle tissue and its characteristics
13	Carbon dioxide cycle in nature
14	Nitrogen cycle in nature
15	Final Exam



DESCRIPTION FORM OF COURSE							
Course Code and	Name: TTO	205 Ecology		Program: Organic Farming Programme			
Semester	Theory	Prac.	Total	Credits ECTS Language of Course Type Compulsory/Elective			Course Type Compulsory/Elective
Fall Semester	4	0	4	4	4	Turkish	Compulsory
<b>Prerequisites of Course</b>		There are no	prerequisites.				
Course Instructor  Aims of Course		Prof. Dr. Rah	mi AYDIN	We http	eb:		du.tr m/citations?hl=tr&user
		The aim is to teach the concepts and theories of ecology (habitat, etc.) sustainable agricultural ecology to ensure the preservation of natural ecosystems, agroeco systems, teaching to reveal the differences between environmental factors (climate, edaphic factors, biological and topographic factors).					
Course Learning Outcomes and Competencies		ecosystem e  2. Defines the ecosphere, e  3. Classifies  • Will be able of environment  1. Defines the environment  3. Plans and fields Will be able related to the  • Will define	ndividual ecocology.  ne concepts of cological relations that pollution implements to classify them.	ology, populationships is according the applicates. In areas of eachip with or a projects by the sub-brarend abiotic from ecology, onships with	nent, envand factors research the each of	ironment, bears and home tolerance to of ecology, on the world by defining thing studies ecology and lated to indiconstitute the her.	munity ecology and iome, biosphere, eostais.  ecological factors.  which forms the basis



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	<ul> <li>Will learn and apply the studies of the branch of ecology, will recognize ecosystems by seeing them and will meet those who are engaged in this branch of science through technical trips and see their work areas, will learn that their service purpose is nature and living things when they become environmental engineers and will plan how they will contribute to the world ecosystem with continuous studies towards this.</li> <li>Will be able to define the major ecosystems of Turkey and the world.</li> <li>Will define terrestrial ecosystems.</li> <li>Will define freshwater ecosystems.</li> <li>Will define marine ecosystems.</li> <li>Will define wetlands and their importance.</li> </ul>
Textbooks and /or Other Required Materials	Soil Analysis, Burhan Kaçar, Expanded 2nd Edition , Nobel Publications, Ankara, 2009
Method of delivery of the course	Face to face
Teaching Methods and Techniques	Explanation, question-answer, presentation, practice, analysis

		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan
Week	Syllabus



1	Basic rules and concepts in ecology
2	Individual ecology, abiotic factors and their effects on organisms
3	Edaphic factors, Biological Relations
4	Population Ecology, Definitions and Structural characteristics of the population
5	Quantitative changes, Population dynamics, Species community ecology, Community and its characteristics, succession
6	Quantitative changes, Population dynamics, Species community ecology, Community and its characteristics, succession
7	Ecosystem and its characteristics
8	Material cycles in ecosystems
9	Material cycles in ecosystems
10	Major Ecosystems of the World
11	Major Ecosystems of the World
12	Major Ecosystems of the World
13	Applied Ecology, Environmental Pollution
14	Ecological Balance
15	General Exam



### **DESCRIPTION FORM OF COURSE** Course Code and Name: TTO 309 Collection from **Program: Organic Farming** Nature, Medicinal and Aromatic Plants Languag **Course Type** Semester Prac. Total Credits **ECTS** Theory Compulsory/Electiv e of Course Turkish Compulsory 2 4 3 4 Spring Semester 2 **Prerequisites of Course** There are no prerequisites. E-mail: mikailacar@munzur.edu.tr **Course Instructor** Assoc. Prof. Dr. Mikail Açar https://www.munzur.edu.tr/birimler/akademik/myo/t myo/bolumler/bitkisel/Pages/akadro.aspx The aim of this course is to provide basic knowledge and skills on the identification Aims of Course of medicinal and aromatic plants, their sustainable collection, protection and evaluation in their natural distribution areas. It is also aimed to raise awareness about the ethnobotanical importance of these plants, their pharmaceutical and cosmetic use potential, drying and storage techniques, as well as the legal and ethical rules to be considered during the collection process from nature. 1- Recognizes the basic characteristics and classification of medicinal and aromatic plants. 2- Explains the methods of collection from nature and principles of sustainability. **Course Learning Outcomes** 3- Knows the drying, storage and processing techniques of medicinal and aromatic and Competencies plants. 4- Evaluates the ethnobotanical and economic importance of plants. 5- Acts in accordance with legal and ethical rules in the processes of collection Baydar, H. (2022). Tıbbi ve aromatik bitkiler bilimi ve teknolojisi. Nobel Akademik Yayıncılık. **Textbooks and /or Other Required Materials** Method of delivery of the Face to face / Hybrid course **Teaching Methods and** Explanation, question-answer, discussion, practice **Techniques**



		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan
Week	Syllabus
1	Introduction to Medicinal and Aromatic Plants
2	Botanical Characteristics of Medicinal and Aromatic Plants
3	Natural Collection Methods and Principles
4	Active Compounds and Chemical Composition in Medicinal Plants
5	Aromatic Plants and Essential Oils
6	Drying, Storage and Processing Techniques
7	Economic and Ethnobotanical Importance of Medicinal and Aromatic Plants
8	Midterm Exam
9	Natural Collection Permits and Legal Regulations
10	Plant Populations and Sustainability
11	Diseases and Pests in Medicinal and Aromatic Plants
12	Natural Collection and Quality Control
13	New Technologies and Research in Medicinal and Aromatic Plants
14	Final Exam



DESCRIPTION FORM OF COURSE								
Course Code and Name: TTO 405 General Principles of Organic Agriculture, Control and Certification				Program: Organic Farming Programme				
Semester	Theory	Prac.	Total	Credits	ECTS	Language of Course	Course Type Compulsory/Elective	
Fall Semester	2	0	2	2	4	Turkish	Compulsory	
Prerequisites of C	ourse	There are no p	orerequisites.					
Course Instructor  Aims of Course		Prof. Dr. Rahr	ni AYDIN	We http	b:		lu.tr m/citations?hl=tr&user	
		certification	Organic farming; agricultural production is carried out with control and certification at every stage from production to consumption, without using chemical inputs.					
Course Learning and Compe	,	should be can  2. All kinds of business input seedlings, say pesticides.  3. In order to planting and manure constaddition, app processing sh  4. Balanced in and emphasis	pried out using of environments should be plings, etc. to process the organic fertilisting of farmorpriate soil mould be avoid the should be avoid	ng natural nentally three reduced of o be used in soil and consideration shammanure and processing soided.	raw material catening of complete or complete on organic ontinue the could be companded organic organi	erials.  effects of ractely avoided agriculture agriculture agriculture are living actured as a second agriculture are living actured as a second agriculture are living actured as a second agriculture agricultu	duction, production  w materials and other d. For example, e should be free of  ivity in it, rotational is, compost and green ould be used. In d and excessive soil  ment should be made lanting. logical conditions of	



	and resistant seeds, saplings and animals suitable for these conditions should be used.
	6. Biological methods should be used to combat pests.
	7. In animal production, barns and stables should be in accordance with the
	rules, nutritional needs should be met by the farm as much as possible, and
	chemical substances (antibiotics, weight gain additives, etc.) should not be
	added to feed.
	8. In breeding, 1 head of cattle should be considered for 1 ha of land to meet
	feed needs.
	9. In ecological agriculture, producing sufficient amounts of high quality food
	should come before maximum yield.
	10. Natural energy sources such as solar energy and wind energy should be
	preferred as much as possible for energy.
	11. The earnings and opportunities of ecological agriculture enterprises should
	satisfy the producer and their employees.
Textbooks and /or Other Required Materials	Ministry of Agriculture and Forestry Lecture notes and related books
Method of delivery of the course	Face to face
Teaching Methods and Techniques	Explanation, question-answer, presentation, practice, analysis

	If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
1. Midterm Exam	X	40
2. Midterm Exam		



Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan
Week	Syllabus
1	What is organic farming
2	Why should we consume organic farming products
3	What should we pay attention to when choosing organic farming land
4	What are the pest control methods in organic farming
5	What is a GMO water modified product
6	Seedling
7	Seed
8	Production techniques with cuttings
9	What is a certificate and how to get it
10	What is crop rotation
11	Reducing soil erosion
12	The harms of pesticides
13	The effects of pesticides on non-target organisms
14	Plant disease control techniques
15	General Exam



	DESCRIPTION FORM OF COURSE									
Course Code and Production-I	Name: TTO	101 Organic An	imal	Program	: Organic	Farming				
Semester	Theory	Prac.	Total	Credits	ECTS	Languag e of Course	Course Type Compulsory/Electiv e			
Spring Semester	2	2	Turkish Compulsory							
Prerequisites of C	Course	There are no	prerequisites	S.						
Course Instructor	•	Assoc. Prof. Dr	r. Mikail Aç	ear We	e <b>b :</b> ps://www.r		zur.edu.tr :/birimler/akademik/myo/t es/akadro.aspx			
Aims of Course		The aim of this course is to enable students to comprehend the basic principles, philosophy and application principles of animal production within the organic farming system. The course aims to provide a holistic perspective at an introductory level to organic animal production by addressing issues such as the differences between conventional and organic animal husbandry systems, animal welfare, shelter and environmental conditions, natural feeding and breeding methods and health management. It is also aimed to enable students to reach the competence to evaluate organic animal production in terms of ethical, environmental and legal dimensions.								
Course Learning Outcomes and Competencies		<ol> <li>Explains the basic concepts and principles of organic animal production.</li> <li>Analyzes the role of animal husbandry in the organic farming system.</li> <li>Defines animal welfare, shelter conditions and environmental requirements in organic animal production.</li> <li>Gains basic knowledge on feeding, reproduction and health management in organic animal production.</li> <li>Understands the ethical, legal and environmental responsibilities related to organic animal production.</li> </ol>								
Textbooks and Required M		Er, C., & Başalma, D. (2008). Organik tarımdaki gelişmeler. Nobel Yayın Dağıtım, 1354. Organik Hayvancılık": Prof. Dr. Yusuf Erdoğmuş ve Prof. Dr. Muammer Öztürk								
Method of deli- cours Teaching Met Techniq	e hods and	Face to face / I		ver, discussi	on, practic	ee				



		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan
Week	Syllabus
1	Introduction to Organic Agriculture and Animal Production
2	The Place and Importance of Animal Husbandry in Organic Agriculture
3	Comparison of Conventional and Organic Animal Production Systems
4	Animal Welfare Principles in Organic Animal Production
5	Shelter and Environmental Conditions in Organic Animal Production
6	Animal Breeds and Genetic Resources in Organic Production
7	Reproduction and Natural Methods in Organic Animal Production
8	Midterm Exam
9	Hygiene and Health Management in Organic Animal Production: Introduction
10	Social Behavior of Animals in Organic Animal Production
11	Natural Pasture-Based Feeding in Organic Animal Production
12	Manure Management and Environmental Effects in Organic Animal Production
13	Ethical and Legal Approaches in Organic Animal Production
14	Final Exam



		DESCRI	PTION FO	RM OI	F CO	URSE		
Course Code and Biochemistry	d Name:TTO	109 Food Chemi	09 Food Chemistry and Program: Organic Farming			5		
Semester	Theory	APPLICAT ION.	Total	Cred	dits	ECTS	Course Language	Course Type Compulsory/Elective
Fall Semester	3	0	3	3		4	Turkish	Compulsory
Course Prerequis	ites	There are no p	rerequisites.					
Course Instructor Pro		Prof. Dr. Num	Prof. Dr. Numan YILDIRIM  Email:numanyildirim@munzur.edu.tr  Web: <a href="https://akademik.yok.gov.tr/AkademikAw/viewAuthor.jsp">https://akademik.yok.gov.tr/AkademikAw/viewAuthor.jsp</a>					
Objectives of the O	Course	In Food Science and Technology, basic information is given about the structure properties of biomolecules, proteins, carbohydrates, fats, vitamins, mineral acid cycle, oxidative phosphorylation, gluconeogenesis, biosynthesis macromolecules, metabolic energy production and storage, glycolysis are biochemical changes in food.				vitamins, minerals, citric nesis, biosynthesis of		
Course Learning and Compe		<ol> <li>To have knowledge about the definition of Food Biochemistry and its application areas.</li> <li>Understanding the conditions of biochemical reactions occurring in foods</li> <li>Understanding the structure and properties of bio-molecules formed as a result of reactions in foods.</li> <li>Gain knowledge about the structure and properties of proteins.</li> <li>Gain knowledge about the structure and properties of oils.</li> <li>Gain information about the structure and properties of carbohydrates.</li> <li>Gain information about the structure and properties of vitamins and minerals.</li> <li>Understand the formation and breakdown reactions of metabolic compounds.</li> </ol>					curring in foods ales formed as a result of eins. bohydrates. mins and minerals.	
Textbooks and Required M		Lecture Notes						
Course presenta		Face to face, C	Online					
Teaching Met Techniq		Explanation, p	resentation, g	group v	vork,	, field wo	rk	

		If yes, please mark (X).	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral examination		



Applied Exam (Laboratory, Project, etc.)	X	60
Final Exam		

	Term Lesson Plan				
Week	Curriculum				
1	The concept of food				
2	Food chemistry and food biochemistry concepts				
3	Food Ingredients				
4	Structural properties of proteins				
5	Functions of proteins				
6	Structural properties of carbohydrates				
7	Functions of carbohydrates				
8	Midterm Exam				
9	Structural properties of oils				
10	Functions of Fats				
11	Vitamins and Minerals				
12	Vitamins and minerals				
13	Metabolic compounds, metabolism				
14	Biochemical reactions in foods				



	DESCRIPTION FORM OF COURSE						
Course Code and Production-II	Name: TTO2	201 Organic An	imal	Program	: Organic	Farming	
Semester	Theory	Prac.	Total	Credits	ECTS	Languag e of Course	Course Type Compulsory/Electiv e
Spring Semester	2	2	4	3	6	Turkish	Compulsory
Prerequisites of C	Course	There are no p	prerequisites	S.			
Course Instructor		Assoc. Prof. Dr	. Mikail Aç	ar We	e <b>b :</b> ps://www.n		zur.edu.tr /birimler/akademik/myo/t es/akadro.aspx
Aims of Course		welfare, shelted legal regulation students to act the framewor principles.	The aim of this course is to provide advanced knowledge about animal health, welfare, shelter conditions, organic feeding methods, production systems and relevant legal regulations in line with the principles of organic animal production; to enable students to acquire the ability to evaluate organic animal husbandry practices within the framework of sustainability, environmental health and ethical production principles.				
Course Learning Outcomes and Competencies		<ol> <li>Explains the basic principles and applications of organic animal production systems.</li> <li>Recognizes approaches specific to organic production in animal welfare, health and nutrition.</li> <li>Gains the ability to plan organic feeding and shelter conditions.</li> <li>Understands the certification processes and legal regulations of organic animal products.</li> <li>Evaluates organic animal production problems in line with sustainable and ethical production principles and develops solution suggestions.</li> </ol>					
Textbooks and Required M		Er, C., & Başalma, D. (2008). Organik tarımdaki gelişmeler. Nobel Yayın Dağıtım, 1354. Organik Hayvancılık": Prof. Dr. Yusuf Erdoğmuş ve Prof. Dr. Muammer Öztürk					
Method of deliv cours Teaching Met Techniq	e hods and	Face to face / Hybrid  Explanation, question-answer, discussion, practice					



		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan					
Week	Syllabus					
1	Basic Principles and Philosophy of Organic Agriculture					
2	Control and Supervision Mechanisms in Organic Agriculture					
3	Basics for Starting Organic Agriculture					
4	Fundamentals of Organic Animal Production					
5	Management and Planning in Organic Animal Production					
6	Organic Beekeeping					
7	Organic Aquaculture Production					
8	Midterm Exam					
9	Organic Poultry: Breeding and Management					
10	Organic Egg Production					
11	Organic Animal Nutrition and Feed Management					
12	Disease Control in Organic Animal Production					
13	Sustainability and Economy in Organic Animal Production					
14	Final Exam					



DESCRIPTION FORM OF COURSE							
<b>Course Code and</b>	Name: TTO2	owledge	Program	: Organic	Farming		
Semester	Theory	Prac.	Total	Credits ECTS Languag Course Type Compulsory/E.			
Spring Semester	2		2	2	2	Turkish	Compulsory
Prerequisites of C	Course	There are no p	orerequisites	S.			
Course Instructor	•	Assoc. Prof. Dr	. Mikail Aç	ar We	e <b>b :</b> ps://www.r		zur.edu.tr ·/birimler/akademik/myo/t es/akadro.aspx
Aims of Course		The aim of this course is to enable students to understand the basic components of the climate system, atmospheric processes and climate types; to provide basic information about the functioning of climate on a global and regional scale; and to raise awareness about climate change, the effects of climate on human life and the environment, and the applications of climate information in areas such as agriculture, ecology and planning.					
Course Learning Outcomes and Competencies		<ol> <li>Explains the basic components of the climate system and atmospheric processes.</li> <li>Recognizes different climate types and their characteristics.</li> <li>Gains basic knowledge about climate change and its causes.</li> <li>Evaluates the effects of climate on human life and the environment.</li> <li>Can apply climate knowledge in areas such as agriculture, planning and environmental management.</li> </ol>					
Textbooks and Required M		Current reports of international and national organizations, Lecture Notes İklim Bilgisi ve Meteoroloji, Yazar: H. Gökmen					
Method of delivery of the course  Face to face / Hybrid							
Teaching Met Techniq		Explanation, qu	iestion-ansv	ver, discussi	on, practic	e	



		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan					
Week	Syllabus					
1	Definition and General Features of the Atmosphere					
2	Heat and Temperature in the Atmosphere					
3	Energy Uptake and Energy Transmission Forms in the Atmosphere					
4	Plant and Temperature Relationship					
5	Frost Event and Effects of Frost on Plants					
6	Air Moisture Content and Humidity Measurement Techniques					
7	Evaporation and Condensation Events in the Atmosphere					
8	Midterm Exam					
9	Atmospheric Pressure and Wind					
10	Types of Clouds and Precipitation					
11	Climate Types and Classifications					
12	Microclimate and Effects on Plants					
13	Climate Change and Effects on Plant Production					
14	Final Exam					



	DESCRIPTION FORM OF COURSE						
Course Code an	nation	Program: Organic Farming					
Semester	Theory	Prac.	Total	Credits ECTS Course Course Type Compulsory/Elect			
Spring Term	2	0	2	2	4	Turkish	Compulsory
Course Prerequis	ites	There are no p	orerequisites.				
Course Instructor	Prof. Dr. Numan YILDIRIM			M ht	Email:numanyildirim@munzur.edu.tr Web: https://akademik.yok.gov.tr/AkademikArama/ view/viewAuthor.jsp		
Objectives of the 0	Course	The aim of this course is to enable students to recognine minerals found in soil and the elements that form the between the physical, chemical and biological proper which agricultural practices should be implemented to to soil conditions.			form them, form them,	to establish relationships of soil, and to determine	
Course Learning and Compe		<ol> <li>Define soil formation and its resources</li> <li>Have knowledge about the physical, chemical and biological properties of the 4. Describe soil structure and its fractions.</li> <li>Explains soil color, soil temperature and soil porosity.</li> </ol>				cal properties of the soil.	
Textbooks and Required M		Lecture Notes					
Course presenta	tion format	Face to face, Online					
Teaching Met Techniq		Explanation, p	oresentation,	group wor	k, field wo	rk	

		If yes, please mark (X).	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral examination		
	Applied Exam (Laboratory, Project,	X	60



etc.)	
Final Exam	

	Term Lesson Plan					
Week	Curriculum					
1	The concept of soil					
2	Soil formation					
3	Mineral and organic parent materials					
4	Factors affecting soil formation					
5	Soil chemistry					
6	Soil biology					
7	Soil structure					
8	Midterm Exam					
9	Soil fractions					
10	Earth color					
11	Soil porosity					
12	Soil temperature					
13	Plant growth chemicals					
14	Soil tillage and fertilizers					



	DESCRIPTION FORM OF COURSE						
Course Code and	Name: TTO	213 Plant Prote	ection	Program	Program: Organic Farming		
Semester	Theory	Prac.	Total	Credits	ECTS	Languag e of Course	Course Type Compulsory/Electiv e
Spring Semester	3		3	3	2	Turkish	Compulsory
Prerequisites of C	Course	There are no	prerequisite	S.			
Course Instructor	•	Prof. Dr. Mevl	üt ALATAŞ	S We http	e <b>b :</b> ps://www.1		nunzur.edu.tr -/birimler/akademik/myo/t es/akadro.aspx
Aims of Course		To recognize physiological disorders, bacterial, fungal and viral disease symcultivated plants and to apply methods of combating these diseases.					
Course Learning and Compete		1. Recognizes plant disease agents. 2. Knows the penetration and infection physiology of pathogens. 3. Knows the effects of pathogens on plant physiological functions. 4. Knows the conditions that cause epidemics to occur. 5. Knows the methods of combating plant disease agents and occupational an worker health in combating.					ctions.
Lecture notes of the instructor who taught the course, Kaygısız, H., Diseases in Plant Production. Hasad Publications. Istanbul, 2  Textbooks and /or Other Required Materials  Prof. Dr. Özdemir Alaoğlu, Prof. Dr. Nuh Boyraz, Prof. Dr. Ahmet Güncan, Kubilay Kurtuluş Baştaş, Plant Protection, Atlas Academy, 2024  Ankara University, Open Archive Lecture Notes					met Güncan,Prof. Dr.		
Method of deliv	•	Face to face / Online					
Teaching Met Techniq	hods and	Explanation, q	uestion-ansv	wer, discussi	on, practic	ce	



		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan	
Week	Syllabus	
1	Definition of Plant Protection and Entomological Factors	
2	External (Morphological) Structure of Insects	
3	Structure and Function of Internal Organs in Insects (Anatomy, Physiology, Reproduction and Development)	
4	Insect Ecology	
5	Fighting with Insects (Cultural, Biological, Physical, Biotechnological, Chemical)	
6	Methods for taking soil samples and preparing them for analysis, drying, grinding, sifting and storing them	
7	Insect Taxonomy	
8	Midterm	
9	Plant Protection Phytopathology	
10	Plant Pathogenic Fungi	
11	Plant Pathogenic Bacteria	
12	Weeds and Flowering Parasitic Plants	
13	Hygiene and Therapy (Science of Disease Prevention and Treatment)	
14	Abiotic Factors	
15	Final exam	



	DESCRIPTION FORM OF COURSE							
Course Code and Name: TTO307 Greenhouse cultivation-I			Program	Program: Organic Farming				
Semester	Theory	Prac.	Total	Credits ECTS e of Compulso			Course Type Compulsory/Electiv e	
Fall Semester	2	2	4	3	4	Türkish	Compulsory	
Prerequisites of C	ourse	There are no	prerequisite	s.				
Course Instructor		Prof. Dr. Mevl	Mevlüt ALATAŞ  E-posta: mevlutalatas@munzur.edu.tr  Web: https://www.munzur.edu.tr/birimler/akademik/my/myo/bolumler/bitkisel/Pages/akadro.aspx				/birimler/akademik/myo/t	
Aims of Course		To teach the history of greenhouse farming, its place in the world and in Turkey, the classification of greenhouses, ecological and economic factors affecting the selection of greenhouse location, introduction of greenhouse elements, and planning of the greenhouse interior.				ors affecting the selection		
Course Learning and Compe		<ol> <li>Learns the concepts of greenhouse and greenhouse farming.</li> <li>Knows and analyzes the current status of greenhouse farming in Turkey.</li> <li>Knows and analyzes the current status of greenhouse farming in the world.</li> <li>Knows the techniques and methods of production, cultivation and maintenand greenhouses.</li> <li>Analyzes where, how and how economically a greenhouse can be established.</li> <li>Increases the yield of products grown in greenhouses.</li> <li>Becomes informed about how its quality can be increased.</li> <li>Learns what to do in the next stage after establishing a greenhouse.</li> <li>Prepares soil in the greenhouse. Performs cultural processes in the greenhous 10. Learns soilless agriculture, knows its methods and techniques and gains to qualification to apply it.</li> </ol>				ing in Turkey. ing in the world. ion and maintenance in can be established. enhouse. es in the greenhouse.		
Textbooks and Required M		Lecture notes of the instructor,  Sevgican, A., 2002. Ertekin, Ü., 2002. Greenhouse and Covered Cultivation.  Mars Press, Ankara.  Ankara University open archive lecture notes.					ered Cultivation.	
Method of delivery of the course  Face to face / Online								
Teaching Met Techniq		Explanation,	question-an	swer, discus	sion, pract	ice		



		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan					
Week	Syllabus					
1	Definition of Greenhouse Cultivation, History of Greenhouse Cultivation, Greenhouse Cultivation in the World					
2	Greenhouse Cultivation in Turkey					
3	Definition of Greenhouse Effect, Greenhouse Structures					
4	Greenhouse Structures, Low Plastic Tunnel, High Plastic Tunnel					
5	Greenhouse Structures, Greenhouses, General Features, Factors Affecting Greenhouse Type Selection, Classification of Greenhouses					
6	Economic and Ecological Factors Affecting Greenhouse Planning					
7	Greenhouse Structural Elements					
8	Midterm					
9	Greenhouse Business Planning					
10	Providing Environmental Conditions Suitable for Plant Cultivation in Greenhouses					
11	Arrangement of Greenhouse Interiors					
12	Plant Cultivation in Greenhouses					
13	Plant Cultivation in Greenhouses, Irrigation, Automation, Drainage					
14	Plant Cultivation in Greenhouses, Cultural Processes Performed in Greenhouses					
15	Final exam					



		DESCR	IPTION FO	RM OF	COU	IRSE		
Course Code and		Program: Organic Farming						
Semester	Theory	Prac.	Total	Cred	Credits ECTS		Course Language	Course Type Compulsory/Elective
Fall Semester	4	0	4	4		4	Turkish	Compulsory
Course Prerequisi	ites	There are no p	orerequisites.					
Course Instructor		Prof. Dr. Numan YILDIRIM  Email:numanyildirim@munzur.edu.tr Web: https://akademik.yok.gov.tr/AkademikAview/viewAuthor.jsp						
Objectives of the O	Course	The aim of this course is to provide students with basic information in the field genetics along with current applications and examples.					formation in the field of	
Course Learning and Compe	,	<ol> <li>Define the basic concepts used in genetics and model organisms.</li> <li>Understand the biochemical reaction conditions that occur in foods.</li> <li>Interpret the chromosome theory of inheritance and Mendelian genetics</li> <li>Explain the differences between eukaryotic and prokaryotic genetics.</li> <li>Explain mutations and their mechanisms of action.</li> <li>Know the differences between DNA and RNA</li> <li>Explain how DNA replication occurs</li> <li>Explain how genetically modified organisms are obtained</li> </ol>					elian genetics	
Textbooks and Required M		Öner C. (Editor). (2009). Genetic Concepts. Palme Publishing House. Lecture Notes					g House.	
Course presenta	tion format	Face to face, Online						
Teaching Met Techniq	hods and	Explanation, p	presentation,	group w	ork, fi	ield woı	·k	

		If yes, please mark (X).	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral examination		



Applied Exam (Laboratory, Project, etc.)	X	60
Final Exam		

	Term Lesson Plan					
Week	Curriculum					
1	Concept of gene and genome					
2	Differences between eukaryotic and prokaryotic genomes					
3	Nucleic acids, DNA					
4	History of DNA and DNA models					
5	Structure and properties of RNA					
6	DNA replication					
7	DNA transcription					
8	Midterm Exam					
9	Mutation					
10	DNA repair mechanisms					
11	Gene cloning studies					
12	Protein synthesis					
13	Gene transfer					
14	GMO organisms					



DESCRIPTION FORM OF COURSE							
	Course Code and Name: TTO313 Agricultural Mechanisation and Irrigation			Program: Organic Farming			
Semester	Theory	Prac.	Total	Credits	ECTS	Languag e of Course	Course Type Compulsory/Electiv e
Fall Semester	2		2	2	3	Turkish	Compulsory
Prerequisites of C	ourse	There are no p	orerequisites	·			
Course Instructor		Prof. Dr. Mevli	it ALATAŞ	We http	<b>b</b> : os://www.n		unzur.edu.tr /birimler/akademik/myo/t es/akadro.aspx
Aims of Course			n level. To j	provide info	ormation a	bout agricult	ur country's agricultural ural tools and machines,
To understand irrigation methods in agriculture.							
Course Learning Outcomes and Competencies		<ol> <li>Explains the development and importance of Agricultural Mechanization.</li> <li>Learns the importance and benefits of Agricultural Mechanization in agriculture.</li> <li>Understands the features and privileges of the tools, vehicles and equipment to be used for good agricultural mechanization.</li> <li>Understands the development and importance of agricultural mechanization in the world and in Türkiye.</li> <li>Explains the tools and equipment in Agricultural Mechanization.</li> <li>Learns the tractor and its types.</li> <li>Learns the sowing, planting and fertilizing machines.</li> <li>Learns about plant protection machines and harvesting machines.</li> <li>Explains irrigation methods in agriculture.</li> <li>Understands the importance of water in plant production.</li> <li>Learns the surface irrigation and pressurized irrigation methods in agricultural areas.</li> <li>Understands the importance of agricultural drainage.</li> </ol>					
Textbooks and Required M		Lecture notes of the instructor  Agricultural Mechanization 1, Çukurova University Publications, 2011  MEB, Agricultural Field Application 9th grade Textbook  Gürol Yıldırım, Micro-Irrigation System Lateral Pipe Flow Hydraulics - Analytical Solutions and Design Applications, Nobel Academy Publishing, 2024.					
Method of delivery of the course  Method of delivery of the course							
Teaching Met Techniq	hods and	Explanation, o	question-ans	wer, discus	sion, practi	ice	



		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan				
Week	Syllabus				
1	Definition of Agricultural Mechanization				
2	Development and Importance of Agricultural Mechanization				
3	Energy Sources in Agriculture				
4	Energy Sources in Agriculture, Tractors				
5	Agricultural Tractors and Soil Tillage Mechanization				
6	Relationship between Tractor and Soil Tillage Machine				
7	Planting Methods				
8	Midterm				
9	Definition and Importance of Irrigation,				
10	Water transmission and distribution structures				
11	Importance of Irrigation for Plants and Surface Irrigation Methods				
12	Surface Irrigation Methods				
13	Pressure Irrigation Methods				
14	Pressure Irrigation Methods				
15	Final exam				



		DESCR	IPTION FO	RM OF	COURSE		
Course Code and Name: TTO323 Biotechnology Program: Organic Farm							5
Semester	Theory	Prac.	Total	Credi	Credits   Course   Course Type   Compulsory/Ele		
Spring Term	2	0	2	2	3	Turkish	Compulsory
Course Prerequis	ites	There are no p	prerequisites				
Course Instructor		Prof. Dr. Numan YILDIRIM  Email :numanyildirim@munzur.edu.tr  Web:  https://akademik.yok.gov.tr/AkademikAr  view/viewAuthor.jsp					
Objectives of the (	Course	This course aims to help students understand what biotechnology means and whe is used.  concepts; distinguish between traditional and modern biotechnology  It aims to enable them to learn the areas in which biotechnology serves.					nnology
Course Learning and Compe		<ol> <li>Define biotechnology</li> <li>Give examples of animal biotechnology application areas</li> <li>Gain knowledge about the techniques used in plant biotechnology</li> <li>Define microbial biotechnology</li> <li>Gain knowledge about current applications of biotechnology</li> <li>Define the fields of Environmental and Food Biotechnology and give examples.</li> </ol>					gy
Textbooks and Required M		Lecture Notes					
Course presenta	tion format	Face to face, (	Face to face, Online				
Teaching Met Techniq		Explanation, p	oresentation,	group wo	ork, field wo	ork	

		If yes, please mark (X).	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral examination		
	Applied Exam (Laboratory, Project,	X	60



etc.)	
Final Exam	

	Term Lesson Plan					
Week	Curriculum					
1	Concept of Biotechnology					
2	History of biotechnology					
3	Definition and application areas of Food Biotechnology					
4	Definition and application areas of Environmental Biotechnology					
5	Definition and application areas of Plant Biotechnology					
6	Plant tissue culture methods					
7	Definition and application areas of Animal Biotechnology					
8	Midterm Exam					
9	Definition and application areas of Animal Biotechnology					
10	Microbial biotechnology					
11	Enzyme microbiotechnology					
12	Fermentation methods					
13	Characteristics of a good industrial microorganism					
14	Industrial biotechnology					



	DESCRIPTION FORM OF COURSE						
Course Code and Name: TTO403 Greenhouse cultivation-II			Program	Program: Organic Farming			
Semester	Theory	Prac.	Total	Credits	ECTS	Languag e of Course	Course Type Compulsory/Electiv e
Spring Semester	2	2	4	3	4	Türkish	Compulsory
Prerequisites of C	ourse	There are no j	orerequisite	s.			
Course Instructor		Prof. Dr. Mevlüt ALATAŞ  E-posta: mevlutalatas@munzur.edu.tr  Web: https://www.munzur.edu.tr/birimler/akademik/n myo/bolumler/bitkisel/Pages/akadro.aspx					·/birimler/akademik/myo/t
Aims of Course		Practicing greenhouse farming, growing seasonal plant species.					es.
	1. Understands the place as 2. Performs seed sowing, s greenhouse.			, seedling pl	anting and	maintenance	operations in the
Textbooks and Required M		3. Grows seasonal plant species (vegetables, fruits and flowers) in the greenhouse.  Lecture notes of the instructor,  MEB, Greenhouse Cultivation Systems Textbook.,  K. Savaş, Titiz Modern Greenhouse - Road Map for Investors Ansiad Publishing House, Antalya, 2004					
Method of deliv	2	Face to face /	Face to face / Online				
Teaching Met Techniq		Explanation,	question-an	swer, discus	sion, pract	ice	



		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan					
Week	Syllabus					
1	The importance of greenhouse farming, its history, its situation in the world and Turkey					
2	Soilless Agriculture					
3	Greenhouse Tomato Cultivation					
4	Greenhouse Pepper Cultivation					
5	Greenhouse Cucumber Cultivation					
6	Greenhouse Eggplant Cultivation					
7	Greenhouse Banana Cultivation					
8	Midterm					
9	Greenhouse Strawberry Cultivation					
10	Greenhouse Melon Cultivation					
11	Greenhouse Squash and Cut Flower Cultivation					
12	Greenhouse Lettuce Cultivation					
13	Greenhouse Onion Cultivation					
14	Greenhouse Watermelon and Potted Flower Cultivation					
15	Final exam					



DESCRIPTION FORM OF COURSE								
	Course Code and Name: TTO409 Methods of Determination of GMO Products				Program: Organic Farming			
Semester	Theory	Prac.	Total	Credi	ts ECTS	Course Language	Course Type Compulsory/Elective	
Spring Term	4	0	4	4	5	Turkish	Compulsory	
Course Prerequis	ites	There are no p	prerequisites	•				
Course Instructor		Prof. Dr. Numan YILDIRIM  Web:						

		If yes, please mark (X).	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
Evaluation Criteria	2. Midterm Exam		
	3. Midterm Exam		
	Oral examination		
	Applied Exam (Laboratory, Project,	X	60



etc.)	
Final Exam	

	Term Lesson Plan					
Week	Curriculum					
1	The Concept of GMO					
2	The world market for GMO foods					
3	Methods used in the production of GMO products					
4	Genetic sources used in GMO production					
5	Examples of plants produced with GMO					
6	Examples of plants produced with GMO					
7	Effects of GMO products on health					
8	Midterm Exam					
9	Methods for identifying GMO products					
10	Gene-based methods					
11	Protein-based Methods					
12	Laboratory techniques used to identify GMO products					
13	Laboratory stages used in determining GMO products					
14	Case studies					



	DESCRIPTION FORM OF COURSE						
Course Code and Name: TTO419 Organic Agric and Forage Crops			griculture	Program: Organic Farming			
Semester	Theory	Prac.	Total	Credits	ECTS	Languag e of Course	Course Type Compulsory/Electiv e
Spring Semester	2		2	2	2	Türkish	Elective
Prerequisites of C	ourse	There are no	prerequisite	s.			
Course Instructor		Prof. Dr. Mevl	Prof. Dr. Mevlüt ALATAŞ  E-posta: mevlutalatas@munzur.edu.tr  Web: https://www.munzur.edu.tr/birimler/akademik/r myo/bolumler/bitkisel/Pages/akadro.aspx				
Aims of Course		To understand the importance of meadows and pastures, to provide information about meadow and pasture management and improvement, and to provide a gener understanding of forage crop cultivation.					
Course Learning and Compe		1. Çayır meraların tanımını ve ekonomik ve diğer önemlerini kavrar.  2. Çayır meraların yönetimi ve ıslahı hakkında bilgi sahibi olur.  3. Çayır ve meralarda yetişen yem bitkilerini tanır ve yetiştiriciliğini öğre					bi olur.
Textbooks and Required M		Lecture notes of the instructor,  Altın, M.1994. Meadow-Pasture Management. Trakya University, Tekirdağ Faculty of Agriculture. Publication No:222, Textbook No:26, Tekirdağ Gökkuş, A. Koç, 2005. Meadow Pasture Improvement. Republic of Turkey. Ministry of Agriculture and Rural Affairs. Meadow Pasture and Basin Development Department, Ankara TEKELİ A.Ş.,					
Method of deliv	-	Face to face / Online					
Teaching Met Techniq		Explanation,	question-an	swer, discus	sion, pract	ice	



		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
	2. Midterm Exam		
<b>Evaluation Criteria</b>	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan					
Week	Syllabus					
1	Definition and Classification of Pastures					
2	Definition and Scope of Pasture Management					
3	Relationships of Pasture Management with Plant Ecology					
4	Grazing Systems					
5	Pasture Management					
6	Graze Forage Crops 1					
7	Graze Forage Crops 2					
8	Midterm					
9	Cereal Forage Crops 3					
10	Cereal Forage Crops 4					
11	Status of Forage Crops Agriculture and Planting Areas in Turkey,					
12	General Morphological Characteristics of Legume Forage Crops					
13	Special Legume Forage Crops					
14	Special Legume Forage Crops					
15	Final exam					



### TR

		COUR	SE DESCRI	IPTION	FORM				
Course Code and Packaging, and			vation,	Progr	Program: Organic Farming				
Semester	nester Theory Practice Total Hours					Course Language:	Course Type Compulsory/Elective		
Spring Semester	4	-	4	4	4	Turkish	Compulsory		
Course Prerequisi	tes	There are no p	rerequisites.		,				
Instructor:		Assoc. Prof. D	Assoc. Prof. Dr. Neslihan TAŞAR  Email: ntasar@munzur.edu.tr Web: https://www.munzur.edu.tr/biri myo/tmyo/bolumler/bitkisel/Pag				u.tr/birimler/akademik/		
Course Objectives	This course aims to provide students with the knowledge and skills related applying food preservation methods that reduce microbial activity or elimicroorganisms, within the framework of occupational health and safety environmental protection. It also covers the effectiveness of packaging if food and the different preservation and packaging techniques used.				tivity or eliminate h and safety and packaging in preserving				
Learning Outcome Competencies	es and	<ol> <li>The student will be able to evaluate packaging methods for specialty foods and analyze the suitability of different types of packaging materials.</li> <li>The student will be able to explain food preservation methods and identify the advantages and limitations of each method.</li> <li>The student will acquire basic knowledge about packaging materials such as glass, metal, plastic, and paper, as well as modified atmosphere packaging, transport packaging, and packaging techniques specific to specialty foods.</li> </ol>							
Course Material		Lecture Notes							
Course Delivery		Face-to-face, Online							
Teaching Methods Techniques	s and	* Explanation * Presentation * Group Work * Field Work							



### TR MUNZUR UNIVERSITY Tunceli Vocational School

Tunceli Vocational School Organic Farming Program

	Assessment Type	If applicable, mark (X)	Percentage (%) Contribution to Overall Grade
	Midterm Exam	X	40
Evaluation Criteria	Final Exam		
	Oral Exam		
	Practical Exam		
	Applied Exam (Laboratory, Project etc.)		
	Final Exam	X	60

	Course Weekly Schedule				
Week	Topics				
1	Food Spoilage and Preservation				
2	Thermal Process Applications				
3	Control of Water Activity				
4	Addition of Preservatives				
5	Controlled and Modified Atmosphere				
6	Irradiation				
7	New Methods in Food Preservation				
8	Midterm Exam				
9	Relationship Between Packaging and Food				
10	Geographical Indications				
11	Glass Packaging				
12	Paper and Wooden Packaging				
13	Metal and Aluminum Packaging				
14	Final Exam				



### TR MUNZUR UNIVERSITY

Tunceli Vocational School Organic Farming Program

	COURSE DESCRIPTION FORM							
Course Code and Name: TTO103 - Organic Plant Production			Program: Organic Farming					
Semester	Theory	Practice	Total Hours	Credits AKTS Course Course Type Compulsory/Elective				Course Type Compulsory/Elective
Fall Semester	2	2	4	3		6	Turkish	Compulsory
Course Prerequisi	tes	None.						
Instructor:		Assoc. Prof. D	r. Neslihan		We http	<b>b :</b> os://www		du.tr .tr/birimler/akademik/ isel/Pages/akadro.aspx
Course Objectives	<b>\$</b>	This course aims to teach students the importance and role of plant production in the Turkish economy, the definition and classification of plants, and general plant production techniques.						
Learning Outcomes and Competencies		<ol> <li>1.Explains the fundamental principles and historical development of organic agriculture.</li> <li>2.Describes soil preparation, fertilization, sowing/planting, and crop maintenance practices in organic plant production.</li> <li>3.Analyzes the differences between plant nutrients used in organic farming and chemical fertilizers.</li> <li>4.Explains biological and mechanical methods used for pest and disease management in organic production.</li> <li>5.Demonstrates knowledge of organic agriculture legislation and certification procedures.</li> <li>6. Evaluates the environmental, economic, and social impacts of organic plant production systems.</li> </ol>						
Course Material		Lecture Notes						
Course Delivery Face-to-face, Online								
Teaching Methods	s and	* Explanation	1					



### TR MUNZUR UNIVERSITY

Tunceli Vocational School Organic Farming Program

Techniques	* Presentation * Group Work * Field Work	

	Assessment Type	If applicable, mark (X)	Percentage (%) Contribution to Overall Grade
	Midterm Exam	X	40
Evaluation Criteria	Practical Exam		
	Oral Exam		-
	Final Exam	X	60

	Course Weekly Schedule					
Week	Topics					
1	Introduction: History of agriculture					
2	Basic concepts related to plant production					
3	Classification of horticultural crops (fruits, vegetables), economic importance					
4	Classification of field crops (cereals, industrial crops)					
5	Classification of legumes, forage crops, medicinal plants; economic importance					
6	Biological features of plants – basic concepts related to flowers, pollination, fertilization, seed formation					
7	Plant propagation: vegetative propagation (definition, methods, characteristics), generative propagation					
8	Midterm Exam					
9	Principles of plant production in vegetable growing					
10	Principles of plant production in fruit growing					
11	Irrigated and dry farming; principles in field crop production					
12	Principles of field crop production					
13	Principles of field crop production					
14	Final Exam					



### TR

	COURSE DESCRIPTION FORM							
Course Code and Production II	d Name: TT	'O203 - Organ	nic Plant	Prog	ran	ı: Organ	ic Farming	5
Semester	Theory	Practice	Total Hours	Cred	lits AKTS		Course Language:	Course Type Compulsory/Elective
Spring Semester	2	2	4	3		6	Turkish	Compulsory
Course Prerequisi	ites	None.						
Instructor:		Assoc. Prof. I TAŞAR	Or. Neslihan		We http	b: os://www		edu.tr n.tr/birimler/akademik/ isel/Pages/akadro.aspx
Course Objectives	S	This course aims to ensure that students comprehend the basic concepts religiant production, and understand key practices such as sowing-planting, soil irrigation, fertilization, disease, pest and weed control, pruning, and harves both horticultural and field crops.				ing-planting, soil tillage,		
Learning Outcom Competencies	es and	<ol> <li>Explain the principles of generative propagation (seed propagation) are application techniques in vegetables.</li> <li>Define vegetative propagation methods using plant organs (rhizome, to bulb, layering, cutting) and analyze their advantages.</li> <li>Distinguish between types of bud grafting and whip grafting, explaining application areas and benefits.</li> <li>Describe propagation through tissue culture and evaluate its important plant production.</li> <li>Assess the impacts of propagation techniques used in organic plant production on sustainability, quality, and productivity.</li> </ol>				rgans (rhizome, tuber, grafting, explaining their uate its importance in organic plant		
Course Material		Lecture Notes						
Course Delivery		Face-to-face, Online						



Teaching Methods and
Techniques

\* Lecture

\* Q&A

\* Presentation

\* Practice

\* Analysis

	Assessment Type	If applicable, mark (X)	Percentage (%) Contribution to Overall Grade
	Midterm Exam	X	40%
Evaluation Criteria	Final Exam		
	Oral Exam		
	Final Exam	X	60%-

	Course Weekly Schedule					
Week	Topics					
1	Generative propagation					
2	Propagation by seed in vegetables					
3	Vegetative propagation using plant organs					
4	Propagation by rhizomes					
5	Propagation by tubers					
6	Propagation by bulbs					
7	Propagation by layering and its advantages					
8	Midterm Exam					
9	Types of budding					
10	Cases where budding is necessary					
11	Types of grafting					
12	Advantages of grafting					



13	Propagation via tissue culture
14	Final Exam



	COURSE DESCRIPTION FORM							
Course Code and Fertilizers and F		_	nic	Prog	gran	ı: Organ	ic Farming	
Semester	Theory	Practice	Total Hours	Cred	lits	AKTS	Course Language:	Course Type Compulsory/Elective
Fall Semester	3	-	3	3		4	Turkish	Compulsory
Course Prerequisi	tes	None.						
Instructor:		Assoc. Prof. D TAŞAR	r. Neslihan		We http	e <b>b:</b> ps://www		edu.tr n.tr/birimler/akademik/ isel/Pages/akadro.aspx
Course Objectives	s	The importance of plant nutrition, the concepts of fertilizer and fertilization, classification of fertilizers, fertilizer production and methods, calculations for determining the nutrient requirements of plants, introduction of new trend fertilizers, the relationship between plant nutrition and fertilization, and explanation of the relationships between fertilizer–plant–soil–environment.						
Learning Outcome Competencies	es and	<ol> <li>Define the concepts of plant nutrition and fertilization.</li> <li>Distinguish between macro and micronutrients and explain their roles in plant development</li> <li>Evaluate the importance of organic fertilizers, compost, and vermicompost in plant nutrition.</li> <li>Classify types of chemical fertilizers and apply fertilizer requirement calculation methods.</li> <li>Identify symptoms of nutrient deficiencies in plants and develop solutions to prevent these conditions.</li> <li>Explain the uses and effects of fertilizers containing nitrogen, phosphorus, potassium, sulfur, and micronutrients.</li> <li>Describe the characteristics and application techniques of foliar fertilizers.</li> </ol>						
Course Material		Lecture Notes						
Course Delivery Face-to-face, Online								



Teaching Methods and Presentation
Techniques Group Work
Field Work

	Assessment Type	If applicable, mark (X)	Percentage (%) Contribution to Overall Grade
Evaluation Criteria	Midterm Exam	X	40%
	Final Exam		
	Oral Exam		
	Final Exam	X	60%

Course Weekly Schedule					
Week	Topics				
1	Introduction – Concepts of Plant Nutrition and Fertilization				
2	Importance of Plant Nutrition				
3	Macro and Micro Plant Nutrient Elements				
4	Organic Fertilizers in Plant Nutrition				
5	Importance of Compost and Vermicompost in Plant Nutrition				
6	Chemical Fertilizers in Plant Nutrition – Fertilizer Requirement Calculations				
7	Examination of Fertilizer Samples Used in Plant Nutrition				
8	Midterm Exam				
9	Nitrogen Fertilizers				
10	Phosphorus Fertilizers				
11	Potassium Fertilizers				
12	Sulfur-Containing Fertilizers				



13	Micronutrient-Containing Fertilizers
14	Final Exam



	DESCRIPTION FORM OF COURSE							
Course Code and	Name: TTO	315 Seminar		Progr	am:	Organ	ic Farming	<b>Programme</b>
Semester	Theory	Prac.	Total	Credi	its	ECTS	Language of Course	Course Type Compulsory/Elective
Fall Semester	2	0	2	2		2	Turkish	Compulsory
Prerequisites of C	ourse	There are no p	prerequisites.					
Course Instructor	Prof. Dr. Rahmi AYDIN  Mail: raydin@munzur.edu.tr Web:  https://scholar.google.com/citations =RIVWw4MAAAAJ							
Aims of Course		The Seminar Course is conducted to develop the student's ability to explain selected topic and speak in front of a crowd				nt's ability to explain a		
Course Learning and Compet		Develop knowledge related to his/her own research topic  Apply necessary research and writing skills  Follow principles of research ethics and plagiarism  Evaluate his/her own work adequately  Present his/her own research topic orally			С			
Textbooks and Required Ma		Seminar writing rules lecture notes						
Method of deliv		Face to face						
Teaching Metl Techniqu		Seminar preparation						

	If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
1. Midterm Exam	X	40



	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan					
Week	Syllabus					
1	Determining a seminar topic					
2	Importance of seminar course					
3	What to consider when writing a seminar					
4	How to cite sources in seminars					
5	How to cite a source taken from the internet					
6	What is plagiarism					
7	Choosing a seminar topic					
8	Writing the seminar					
9	Checking whether the written seminars are done according to the rules					
10	Checking the spelling rules of the seminars					
11	Checking the spelling rules of the seminars					
12	Finishing the seminar					
13	Receiving the seminar electronically					
14	Examining and evaluating the seminars					
15	General Exam					



DESCRIPTION FORM OF COURSE							
Course Code and	101 Turkish La	01 Turkish Language-I Program: Organic Farming					
Semester	Theory	Prac.	Total	Credits	Credits ECTS Language Course Type Compulsory/Elective		Course Type Compulsory/Elective
Fall Semester	2	0	2	2	2	Türkish	Compulsory
Prerequisites of C	Course	There are no p	rerequisite	s.			
Course Instructor							
Aims of Course		It aims to show students the characteristics and rules of the Turkish Language with examples; to provide them with the skills and habits of expressing their feelings, thoughts, plans, impressions, observations, and experiences correctly and effective in words and writing; to develop their vocabulary through written and spoken texts to teach them the rules of correctly understanding the texts they read or the program they listen to; and to develop their language skills, which are the basis of communication between individuals and masses.				ssing their feelings, correctly and effectively ritten and spoken texts; ney read or the programs the basis of	
Course Learning and Compe		<ol> <li>Will be able to have general information about the concept of language.</li> <li>Definition and birth of language; culture, thought and communication.</li> <li>Understands the differences between written language and spoken language.</li> <li>Will be able to gain correct and planned writing skills.</li> <li>Learns the details of paper layout and paragraph information.</li> <li>Gains competence in written communication by doing writing studies.</li> </ol>			mmunication.  nd spoken language.  tion. riting studies. bunctuation marks.  ing the details of		
Textbooks and Required M		Images/visuals, slides, videos and lecture notes on the course content.					e content.
Method of deli cours	•	Face to face / Online					
Teaching Met Techniq		Explanation, Question-Answer, Discussion, Brainstorming, Individual Work, Team/Group Work					

	If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
1. Midterm Exam	X	40



	2. Midterm Exam		
Evaluation Criteria	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan					
Week	Syllabus					
1	Definition and Function of Language					
2	Languages/Birth of Language					
3	Written Language and Spoken Language					
4	Paper Layout and Paragraph Information					
5	Paragraph Plan					
6	Writing and Writing Plan					
7	Writing Practices					
8	Midterm					
9	Writing Rules					
10	Writing Rules					
11	Punctuation Marks					
12	Punctuation Marks					
13	Petition					
14	Writing Studies					
15	Final exam					



		DESCR	PTION FO	ORM OF C	OURSE			
Course Code and	Course Code and Name: TRD102 Turkish Language-I				Program: Organic Farming			
Semester	Theory	Prac. Total		Credits	Credits ECTS		Course Type Compulsory/Elective	
Spring	2	0	2	2	2	Turkish	Compulsory	
Prerequisites of C	Course	There are no prerequisites.						
Course Instructor								
Aims of Course		To teach and/or remind the importance and subtleties of Turkish and to reinforce with correct Turkish and its resources. In addition, to ensure that students use Turkish and its resources and correspondence throughout the countries.				that students use Turkish		
	1. Will be able to learn information for correct and proper expression.  1.1. Knows the importance of written expression and writes compositions.  1.2. Knows the rules of communication in oral expression.  2. Will be able to comprehend Turkish grammar.  2.1. Knows and applies sound events.  2.2. Understands morphology (root-stem-suffixes).  3. Will be able to analyze words in terms of their structure.  3.1. Develops and changes words.  3.2. Derives new words.  4. Uses the principles and techniques of speaking and discussion.  4.1. Applies Turkish spelling rules in speaking and discussion.				compositions. sion. n.			
Textbooks and Required M		<ul> <li>4.2. Can notice and correct expression errors in oral and written expressions.</li> <li>Zeynep Korkmaz ve ark., Türk Dili ve Kompozisyon Bilgileri, 6. Baskı, Ankara: Yargı Yayınevi, 2003.</li> <li>Yusuf Çotuksöken, Türk Dili, c. I-II, Papatya yay., 2003.</li> <li>Akın Önen, Türkçeyi Türkçe Konuşmak (Diksiyon - Spikerlik - Etkili Konuşma) İnkılap Yayınevi, İstanbul, 2007.</li> <li>Mustafa Durmuş, Türk Dili El Kitabı, Grafiker Yay., 2009.</li> <li>Muharrem Ergin, Türk Dil Bilgisi, Bayrak Basım Yayım Tanıtım, İstanbul, İbrahim Delice, Türkçe Sözdizimi, Kitabevi Yay., 2007.</li> </ul>					ri, 6. Baskı, Ankara: ik - Etkili Konuşma),	
Method of deli	-	Face to face /	<u>,                                     </u>	,				
Teaching Me Technic	thods and	Explanation, Question-Answer, Discussion, Brainstorming, Individual Work, Team/Group Work						

	If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
1. Midterm Exam	X	40



Evaluation Criteria	2. Midterm Exam		
	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		
	Semester Final Exam	X	60

	Semester Course Plan
Week	Syllabus
1	Punctuation marks (Period, comma, semicolon, colon, exclamation point)
2	Spelling rules (Writing of capital letters, numbers, compound words)
3	Spelling rules (Writing of idioms, reduplications, loanwords and foreign proper names)
4	Spelling rules (Writing of abbreviations and some suffixes)
5	Composition (definition, purpose, methods of being successful in composition)
6	Methods in writing composition (formation of supporting and main ideas, planning)
7	Methods in writing composition (paragraph creation, methods of developing thought in paragraph)
8	Midterm Exam
9	Expression characteristics
10	Expression characteristics
11	Expression disorders
12	Types of expression (oral expression)
13	Types of expression (written expression: resume, petition)
14	Types of expression (written expression: story, novel, theater, poetry)
15	Final exam



DESCRIPTION FORM OF COURSE							
Course Code and Name: YDi 131.1. iNGiLiZCE -I			Program	ı: Organi	c Farming l	Program	
Semester	Theory	Prac.	Total	Credits	ECTS	Language of Course	Course Type Compulsory/Elective
Fall Semester	2	0	2	2	2	Turkish	Compulsory
Prerequisites of C	ourse	There are no p	prerequisites	S.			
Course Instructor							
Aims of Course		It aims to provide students with information about English grammar and vocabulary and to enable them to use these in daily life.			ammar and vocabulary		
Course Learning and Compe	-	<ol> <li>Will be able to learn the tenses used in English.</li> <li>Will be able to make dialogues in English and use the tenses he/she learned.</li> <li>Will be able to read English texts.</li> <li>Reads and comments on English stories.</li> <li>Reads English newspaper articles. Translates them into Turkish.</li> </ol>					
Textbooks and Required M		Images/visuals, slides, videos and lecture notes on the course content.			e content.		
Method of deliv	•	Online					
Teaching Met Techniq		Explanation, (	Explanation, Question-Answer				

		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
Evaluation Criteria	2. Midterm Exam		
	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		



	Semester Final Exam	X	60
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	Semester Course Plan
Week	Syllabus
1	Present Form of 'to be'
2	Subject Pronouns, Countries and Nationalities
3	Family Members, Possesive Adjectives
4	Possesive Case, Have got/Has got, Adjectives
5	Singular&Plural Nouns& a/an, This/That/These/Those, Countable&Uncountable Nouns
6	Some&Any&How much&How many
7	Revision
8	Midterm Exam
9	Parts of the House&Furniture, There is/There are, Prepositions of Place, Can/Can't
10	Telling the Time, Days& Months, Prepositions of Time
11	The Simple Present Tense
12	Adverbs of Frequency, Object Pronouns
13	Reading, analyzing, interpreting, and evaluating English texts
14	General Revision
15	Final exam



DESCRIPTION FORM OF COURSE							
Course Code and Name: YDi 132.1. İNGİLİZCE II			Program	Program: Organic Farming Program			
Semester	Theory	Prac.	Total	Credits	ECTS	Language of Course	Course Type Compulsory/Elective
Spring Semester	2	0	2	2	2	Turkish	Compulsory
Prerequisites of C	ourse	There are no p	prerequisites	S.			
Course Instructor							
Aims of Course		It aims to provide students with information about English grammar and vocabulary and to enable them to use these in daily life.			rammar and vocabulary		
Course Learning and Compe		<ol> <li>Will be able to learn the tenses used in English.</li> <li>Will be able to make dialogues in English and use the tenses he/she learned.</li> <li>Will be able to read English texts.</li> <li>Reads and comments on English stories.</li> <li>Reads English newspaper articles. Translates them into Turkish.</li> </ol>					
Textbooks and Required M		Images/visuals, slides, videos and lecture notes on the course content.			e content.		
Method of deliv	•	Online					
Teaching Met Techniq		Explanation, (	Explanation, Question-Answer				

		If yes, please mark (X)	Percentage (%) Contribution to the Overall Average
	1. Midterm Exam	X	40
Evaluation Criteria	2. Midterm Exam		
	3. Midterm Exam		
	Oral Exam		
	Practical Exam (Lab, Project etc.)		



	Semester Final Exam	X	60
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	Semester Course Plan		
Week	Syllabus		
1	The Present Continuous Tense		
2	Weather&Season&Clothes		
3	The Present Simple or The Present Continuous Tense		
4	Past Form of 'To be'		
5	The Past Simple Tense with Regular Verbs		
6	The Past Simple Tense with Irregular Verbs		
7	Revision		
8	Midterm Exam		
9	The Past Continuous Tense		
10	Comparative Forms of Adjectives		
11	Superlative Forms of Adjectives		
12	Giving Advice (Should/Shouldn't)		
13	The Future Tense (be going to)		
14	The Future Tense (will)		
15	Final Exam		