



EUROPEAN UNIVERSITY OF LEFKE

**DEPARTMENT OF
HORTICULTURE**

PROGRAMME HANDBOOK

2026

PROGRAM INFORMATION

Program Name and Degree Awarded

Programme Name: Horticulture.

Degree Awarded: Agricultural Engineer

Duration of Studies

8 Semester

Total Credits / ECTS

142 credits / 240 ECTS

Language of Instruction

The language of instruction in our department is English.

Mission and Vision

Mission

EUL Department of Horticulture has set a mission to educate agricultural engineers who are environmentally conscious, committed to the principles of sustainable horticulture, capable of accessing and analysing information related to the production of horticultural crops (from field to table), and ready to address the critical challenges facing our world (climate change, water scarcity, soil loss, etc.) by fulfilling all the requirements of the modern era.

Vision

To give graduates who are well-trained in the field of horticulture, who recognize regional and universal problems, who exhibit sensitive approaches to these problems, and to be a preferred department for students seeking academic programs at national and international level with the education it provides in this field.

Program Objectives

The purpose of the degree programme is to offer a course of study leading to a recognized degree in preparation for a variety of professions in horticulture. It aims to educate students to serve as extension and production specialist, as well as specialist in horticultural engineering with a strong emphasis on greenhouse, and subtropical and semi-arid crop production. Horticulture graduates are in demand as: Researchers and scientists, Landscape professionals, Horticulture educators,

Greenhouse managers, Orchard or vineyard managers, Crop protection specialists, Nursery managers, and International consultants. General aims of the programme are to:

- Provide students with the theoretical, practical and interdisciplinary training necessary for academic and/or career advancements in horticulture,
- Graduate individuals who are able to keep up with the latest developments and aware of the problems of the era,
- Provide students with necessary skills to be able to work as a part of a team or alone, and additional skills to take part in national and international projects,
- Provide students with skills to critically think, write and speak,
- Provide the students with an appreciation of and respect for social, moral and ethical values to the community.

Program Learning Outcomes

The programme outcomes of the Department are:

- 1) to have the basic scientific foundation necessary for cultivation of horticultural crops mainly vegetables (including summer and winter vegetables, both in greenhouse and open field) and fruits (all kind, including viticulture) and be able to select the most economical techniques in site-specific manner.
- 2) to have the fundamental knowledge about using computer and internet technologies (IT) for reaching reliable, scientific and practical information in the field of horticulture.
- 3) to demonstrate a fundamental understanding of the biotic and abiotic environmental factors (climate, soil, water, biodiversity, etc.) affecting plant growth and development and develop strategies to manage them in a sustainable way.
- 4) to have knowledge both in theory and in practice about most common pests, diseases and weeds of horticultural crops and learn sustainable methods of management.
- 5) to have theoretical and practical knowledge about laboratory practices and safe use of agricultural tools, together with the basic principles of plant propagation, plant nutrition, irrigation and pruning required for healthy crop cultivation.
- 6) to have the ability and knowledge to apply organic horticulture and good agricultural practices in farms by following occupational health and environmental protection measures.
- 7) to have basic information about plant genetics, breeding, biotechnology and postharvest handling of horticultural crops.
- 8) to have ability and knowledge to conduct studies, interpret and evaluate data, define problems, and suggest solutions based on proof for several problems occur in crop farms and horticultural industries.
- 9) to have knowledge both in theory and in practice to develop and apply projects considering social responsibilities and develop professional skills with the awareness of the necessity of

lifelong learning in the field of horticulture and to follow the developments in science and technology

10) to have the basic scientific foundation necessary for research, analyse and identify career opportunities in the field of horticulture as well as horticulture related disciplines.

Curriculum

The programme integrates natural and engineering science elements leading to a four year Bachelor degree. The programme outcomes are designed to reflect both academic and labour-market requirements. The design of the programme supports achievement of the intended learning outcomes. The programme follows a curriculum with 142 credits (240 ECTS) that lasts for 8 semesters (see Table 1 and Table 2). The students successfully completing the program are awarded a Bachelor of Science degree in Agricultural Engineering. EUL Department of Horticulture academic year includes two semesters, namely “Fall” and “Spring”, each lasting not less than 14 weeks. The academic calendar to be used in conjunction with the program is determined every year with the University Senate decision. Some classes may be re-offered in the so called “Summer School”. The purpose of the Summer School is to offer classes for students who have taken and failed, who haven’t taken, or who choose to retake some courses to improve their GPA. Summer School has compressed 7-week duration, where the weekly class hours have been doubled compared to the 14-week regular semester. The regular curriculum of the Horticulture Department is given below (Sem: Semester, T: theory, P: practical, C: Credits).

Table 1. The curriculum of the Horticulture Department

Semesters	Course Code	Course Name	Theory	Practical	Credits	ECTS
1	COMN180	COMPUTER LITERACY	3	0	3	5
	COMN191	FOREIGN LANGUAGE ELECTIVE I (ENGLISH)	3	0	3	3
	COMN109	MATHEMATICS	3	0	3	5
	COMN111	CHEMISTRY	3	0	3	4
	COMN107	ECONOMICS	3	0	3	6
	COMN121	PHYSICS	3	0	3	4
	AGRI119	INTRODUCTION TO HORTICULTURE PROFESSION	1	1	1	3
2	AGRI114	ECOLOGY	2	2	3	6
	AGRI152	BOTANY	2	2	3	6
	COMN106	TURKISH	2	0	2	2
	COMN108	HISTORY	2	0	2	2
	COMN192	FOREIGN LANGUAGE ELECTIVE II (ENGLISH)	3	0	3	3
	COMN114	BIOCHEMISTRY	3	0	3	4
	AGRI102	INTRODUCTION TO MOLECULAR BIOLOGY AND GENETIC	3	0	3	7
3	AGRI207	SOIL SCIENCE	3	0	3	5
	AGRI217	PHYTOPATHOLOGY	3	0	3	4
	AGRI251	VEGETABLE PRODUCTION I	3	0	3	5

	AGEL01	TECHNICAL ELECTIVE I	3	0	3	5
	AGRI255	BASICS OF FRUIT PRODUCTION	3	0	3	5
	COMN253	STATISTICS	3	0	3	6
4	AGRI204	PLANT AND SOIL LABORATORY	2	2	3	6
	AGRI216	PLANT PHYSIOLOGY	3	0	3	5
	AGRI218	ENTOMOLOGY	3	0	3	4
	AGRI226	PLANT BIOCHEMISTRY	3	0	3	5
	AGRI228	FIELD CROPS	3	0	3	5
	AGRI252	VEGETABLE PRODUCTION II	3	0	3	5
5	AGRI303	FIELD PRACTICE I	2	2	3	6
	AGRI313	DISEASES OF HORTICULTURAL PLANTS	2	2	3	5
	AGRI315	HORTICULTURAL TECHNIQUES	3	0	3	5
	AGRI351	IRRIGATION TECHNIQUES	3	0	3	5
	AGEL02	TECHNICAL ELECTIVE II	3	0	3	5
	UFRC01	UNIVERSITY ELECTIVE I	3	0	3	4
6	AGRI302	FIELD PRACTICE II	2	2	3	6
	AGRI306	TEMPERATE & SUBTROPICAL FRUIT	3	0	3	5
	AGRI308	PEST OF HORTICULTURAL PLANTS	2	2	3	5
	AGRI314	PLANT NUTRITION	3	0	3	5
	AGEL03	TECHNICAL ELECTIVE III	3	0	3	5
	UFRC02	UNIVERSITY ELECTIVE II	3	0	3	4
7	AGRI400	PRACTICAL INTERNSHIP	0	1	0	1
	AGRI409	GREENHOUSE TECHNOLOGIES	3	0	3	5
	AGEL04	TECHNICAL ELECTIVE IV	3	0	3	5
	UFRC03	UNIVERSITY ELECTIVE III	3	0	3	4
	AGRI471	PLANT BREEDING	3	0	3	5
	AGRI481	CITRICULTURE	2	2	3	5
	AGEL05	TECHNICAL ELECTIVE V	3	0	3	5
8	AGEL06	TECHNICAL ELECTIVE VI	3	0	3	5
	AGRI404	VITICULTURE	3	0	3	5
	AGRI408	GREENHOUSE PRODUCTIONS	3	0	3	5
	AGRI418	POST HARVEST PHYSIOLOGY	3	0	3	5
	AGRI422	GRADUATION PROJECT	3	0	3	5
	AGEL07	TECHNICAL ELECTIVE VII	3	0	3	5
		TOTAL =	117	50	142	240

Table 2. Elective Pool

AGR1XX1	CTE401 OCCUPATIONAL SAFETY AND HEALTH
LEUXX2	CFE201 LEADERSHIP AND MANAGEMENT
AGRI253	AGRICULTURAL MECHANIZATION
AGRI316	AGRICULTURAL POLICY
LEUXX1	CFE202 ENVIRONMENT AND SUSTAINABLE DEVELOPMENT
AGRI402	AGRICULTURE AND THE ENVIRONMENT
AGR1XX2	AGRI453 SEED TECHNOLOGY
AGRI425	ORGANIC FARMING
AGR1XX6	AGRI491 LANDSCAPE MANAGEMENT
AGR1XX3	AGRI430 WEED SCIENCE
AGR1XX7	AGRI492 FLORICULTURE
AGRI452	HORTICULTURE AND ENVIRONMENT

Laboratory and Equipment Capacity (if applicable)**Table 3. Laboratory and computer sources**

Laboratory Name	Number of students	Area (m ²)
Computer Lab. I	30	42
Computer Lab. II	30	42
Computer Lab. III	30	42
Chemistry Laboratory	30	100
Physics Laboratory	30	75
Horticulture Laboratory	20	100

Career Opportunities

Graduates of the Department of Horticulture, European University of Lefke are well-prepared for diverse career paths in the agricultural and horticultural sectors. The program equips students with theoretical knowledge, practical skills, and research experience, enabling them to address real-world challenges in crop production, sustainable farming, and postharvest management. Career opportunities for graduates include:

- **Public Sector and Government Agencies.** Serving as agricultural engineers, inspectors, and policy advisors in ministries of agriculture, food and rural affairs departments, municipal environmental units, and other state institutions responsible for agricultural development, food security, and environmental protection.
- **Horticultural Engineers and Specialists.** Working in the design, management, and improvement of greenhouse systems, orchards, vineyards, and subtropical crop production units.

- **Research and Development Experts.** Conducting scientific studies in universities, research institutes, and private companies on plant physiology, biotechnology, crop protection, and postharvest technologies.
- **Extension and Advisory Professionals.** Providing technical guidance to farmers, agricultural cooperatives, and rural communities on sustainable production, integrated pest management, irrigation, and plant nutrition practices.
- **Greenhouse and Nursery Managers.** Leading commercial horticultural enterprises specializing in vegetables, fruits, ornamentals, and seedlings.
- **Crop Protection and Food Safety Specialists.** Ensuring safe, high-quality production through pest, disease, and weed management, as well as implementing Good Agricultural Practices (GAP) and organic farming principles.
- **Postharvest and Supply Chain Managers.** Engaging in storage, packaging, processing, and distribution of fruits and vegetables in line with global market standards.
- **International Consultants and Project Managers.** Working in development projects, non-governmental organizations (NGOs), or international agencies that focus on food security, climate-smart agriculture, and rural development.

In addition, graduates may pursue postgraduate education (MSc and PhD degrees) in horticulture or related disciplines, thereby advancing toward academic and research careers. Entrepreneurial graduates are also encouraged to establish their own horticultural enterprises, benefiting from the program's strong emphasis on innovation and practical training.

Contact Information

Head of Department

Assoc. Prof. Dr. İbrahim Kahramanoğlu - ikahramanoglu@eul.edu.tr

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
AGRI 114	Ecology	Compulsory	2	2	0	3	8	Monday / 12.00-14.00
Prerequisite:	n/a	Prerequisite to:	n/a					
Semester:	2nd Semester	Frequency:	each spring term			Planned class size:	30	
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:	1 semester	
Course Lecturer:	Asst. Prof. Dr. Turgut Alas				Office Hours Schedule:	re-announced each semester		
E-mail	talas@eul.edu.tr				Office/Room No:	AS240		
Phone	+90 392 660 2000-2576				Phone:			
Teaching Assistant:					Office/Room No:			
E-mail:								
Course Objectives:	Purpose of the course can be summarized as below: 1) Learning basic principles of ecology and agroecology 2) Provide students with an understanding of the ecosystems and roles of biodiversity in life 3) Provide students with a knowledge of energy, organisms, food web and nutrient cycles							
Learning Outcomes:	1. Ecology and biodiversity. 2. Biomes and Ecosystems. 3. Energy, organisms, food web and nutrient cycles. 4. Population ecology and Agroecology concepts							
Textbooks and/or References:	1	Odum, E.P. (1971). Fundamentals of Ecology (Third Edition). W.B. Saunders Company, 574p. ISBN: 0-7216-6941-7						
	2	Gliessmann, S.R. (2015). Agroecology: The ecology of sustainable food systems (Third Edition). CRC Press, 371p.						
	3	Keleş, R. and Harmancı, C. (2002). Çevrebilim (4. baskı). Imge Kitabevi Yayınları, 410p. ISBN: 975-533-043-7						
	4							
	5							
WEEK	Date	TOPICS						Reference No - Section
Week 1	02.02.26	Critical Definitions						1, 2
Week 2	09.02.26	History of Ecology						1, 2
Week 3	16.02.26	Abiotic and Biotic Factors						1, 2, 3
Week 4	23.02.26	Abiotic and Biotic Factors						1, 2, 3
Week 5	02.03.26	Binomial Nomenclature						1, 2
Week 6	09.03.26	Characteristics of Living Organisms						1, 2
Week 7	16.03.26	Biodiversity						1, 2
Week 8	23.03.26	Biomes and Ecosystems						1, 2
Week 9	30.03.26	Energy and Organisms						1, 2
Week 10		Midterm Exam						
Week 11	13.04.26	Energy and Organisms						1, 2
Week 12	20.04.26	Nutrient Cycles						1, 2
Week 13	27.04.26	Agroecology						1, 2, 3
Week 14	04.05.26	Human Impact on the Environment						1, 2, 3
Week 15	11.05.26	Air, Soil, Water Pollution						1, 2
Week 16		Final exam						
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)			
	Final Exam	1	16-25 May 2026	50				
	Semester Evaluation			50				
	Midterm(s)	1	04-12 April 2026	30	80			
	Quiz(zes)	0		0	0			
	Project(s)	0		0	0			
	Homework(s)	1		20	20			
	Laboratory	0		0	0			
Attendance	0		0	0				
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English		
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours			
Theoretical lecture hours (TLH)	14	42	Homework	1	4			
TLH Self Study	14	84	Mid-term Exam (ME)	1	2			
Quiz (Q)	0	0	ME preparation self study	1	8			
Q preparation self study	0	0	Seminar	0	0			
Laboratory (L)	0	0	Presentation	0	0			
L preparation self study	0	0	Project	0	0			
Applied Hours (AH)	14	35	Final Exam (FE)	1	2			
AH preparation self study	14	70	FE preparation self study	1	10			
TOTAL :						257		
Recommended ECTS Credit (Total Hours / 30) :						8.57		

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
			T	A	L				
AGRI 119	Introduction to Horticulture Profession	Compulsory	1	1	0	1	3	Friday 09:00-10:00	
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	1st Semester	Frequency:	each fall term			Planned class size:		30 students	
Teaching methods:	Lectures, field practices, assignment and discussions					Duration: 1 semester			
Course Lecturer:	Assist. Prof. Dr. Murat Helvacı					Office Hours Schedule:		Monday 14:00-17:00/Tuesday 14:00-17:00/Wednesday 09:00-12:00 & 14:00-17:00/Thursday 09:00-12:00	
E-mail	mhelvacı@eul.edu.tr					Office/Room No:		AS 301	
Phone	0 542 850 0336					Phone:			
Teaching Assistant:						Office/Room No:			
E-mail:						Phone:			
Course Objectives:	Introduction to Horticultural Plants, explaining their biological characteristics, giving information about ecological requirements and basic physiological mechanisms, giving general information about reproduction, propagation, and harvesting process								
Learning Outcomes:	Information on the classification of horticultural crops, their place in the world and national economy, the physiology and biology of horticultural crops, the points to be considered in vegetable and fruit ornamental plants and vineyard plants, ecological demands, cultural processes, preservation and preparation for the market.								
Programme Outcome Relations	PO1: 5 PO2: 1 PO3: 4 PO4: 3 PO5: 4 PO6: 1	PO7: 1 PO8: 2 PO9: 1 PO10: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.						
Textbooks and/or References:	1	Pandey, P. (2025). Fundamentals of Horticulture. AG Publishing House.							
	2	Rather A.M.U.D., Hajam, M. A., Bhat, M. S. A., & Malik, M. I. (2023). Horticulture: principles and practices. Academic Guru Publishing House.							
WEEK	Date	TOPICS					Reference No - Section		
Week 1	26.09.2025	Introduction to Horticulture					1, 2		
Week 2	03.10.2025	Horticultural Plants and Classification					1, 2		
Week 3	10.10.2025	Horticultural plants and products for human nutrition, health benefits and classification in respect of edible parts					1, 2		
Week 4	17.10.2025	Factors Affecting Pollination, Fruit Formation and Classification					1, 2		
Week 5	24.10.2025	Juvenility and Bud Differentiation					1, 2		
Week 6	31.10.2025	Ecological Requirements of Horticultural Plants I-II					1, 2		
Week 7	07.11.2025	Fertilizers and Fertilization Techniques					1,2		
Week 8	08-16 Nov. 2025	Midterm(s)							
Week 9	21.11.2025	Physiology in Horticultural Plants					1,2		
Week 10	28.11.2025	Propagation of Horticultural Plants I-II					1,2		
Week 11	05.12.2025	Soil Structure and Importance of Soil					1, 2		
Week 12	12.12.2025	Establishing of Orchard and Vineyard - Planting Systems					1, 2		
Week 13	19.12.2025	Establishing of Vegetable Garden					1,2-1		
Week 14	26.12.2025	Annual Cultural Practices in Horticultural Plants					2-4, 2-5, 2-6		
Week 15	02.01.2026	Pest Management					1,2		
Week 16	03-11 Jan. 2026	Final exam							
Evaluation Tools	Evaluation Tool	Quantity	Date		Weight in Total (%)	Weight in Semester Evaluation (%)			
	Final Exam	1	03-11 January 2026		60				
	Semester Evaluation				40				
	Midterm(s)	1	08-16 November 2025		40	80			
	Quiz(ze)s								
	Project(s)								
	Homework(s)								
	Laboratory								
	Attendance								
*** Lifelong Learning Programme (LLP) ***					Language of Instruction:		English		
Evaluation Tool	Quantity	Student Workload Hours		Evaluation Tool	Quantity	Student Workload Hours			
Theoretical lecture hours (TLH)	14	14		Homework	0	0			
TLH Self Study	14	28		Mid-term Exam (ME)	1	8			
Quiz (Q)	0	0		ME preparation self study	1	10			
Q preparation self study	0	0		Seminar	0	0			
Laboratory (L)	0	0		Presentation	0	0			
L preparation self study	0	0		Project	0	0			
Applied Hours (AH)	1	3		Final Exam (FE)	1	10			
AH preparation self study	1	7		FE preparation self study	1	10			
TOTAL :						90			
Recommended ECTS Credit (Total Hours / 30) :						3.00			

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name		Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
				T	A	L			
AGRI 152	Botany		Compulsory	2	2	0	3	8	Wednesday 12:00-14:00
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	2nd Semester	Frequency:	each spring term			Planned class size:		30 students	
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:		1 semester	
Course Lecturer:	Assist. Prof. Dr. Murat Helvacı					Office Hours Schedule:	Monday 14:00-17:00, Tuesday 09:00-12:00, Wednesday 09:00-11:00;15:00-17:00, Friday 09:00-12:00;14:00-17:00		
E-mail	mhelvacı@eul.edu.tr					Office/Room No:	AS 240		
Phone	0 542 850 0336					Phone:			
Teaching Assistant:						Office/Room No:			
E-mail:						Phone:			
Course Objectives:	To give the informations about plant cell, vascular system of plants, photosynthesis, growth and development of plants, plant growth regulators, respiration, primitive plants, monocot and dicot plants, morphological characteristics of plants, important plant families, their classifications and ecologies.								
Learning Outcomes:	Learning outcomes of the lecture can be summarized as below: 1- Define botany and identify characteristics common to all plants Describe the complexity of plant cell structure and function Compare and contrast the structure and function of different groups of plants Describe various systems of classification and basic properties of organisms found in each Kingdom and classify common plants based on the binomial system of nomenclature Identify and describe the process and individual reactions of photosynthesis and respiration Describe the basic principles of plant production								2- 3- 4- 5- 6-
Programme Outcome Relations	PO1: 3 PO2: 1 PO3: 3 PO4: 2 PO5: 5 PO6: 1	PO7: 4 PO8: 2 PO9: 1 PO10: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.						
Textbooks and/or References:	1	Byng, J. W. (2014). The Flowering Plants Handbook: A practical guide to families and genera of the world. Plant Gateway Ltd..							
	2	Jose, S. and Clennett C. (2019). Trees, Leaves, Flowers and Seeds (1st Edition). Darling Kinderley Publishing, 192p.							
	3	Bahadur, B., Rajam, M. V., Sahijram, L., & Krishnamurthy, K. V. (Eds.). (2015). Plant biology and biotechnology: Volume I: Plant diversity, organization, function and improvement (No. 11603). Springer India.							
WEEK	Date	TOPICS						Reference No - Section	
Week 1	04.02.2026	Plant Structures						3, 195	
Week 2	11.02.2026	The Plant Cell and Its Molecular Components						3, 50	
Week 3	18.02.2026	Photosynthesis and Respiration						3, 262/3, 295	
Week 4	25.02.2026	Flowers						2, 64	
Week 5	04.03.2026	Reproduction in Flowering Plants						2, 68	
Week 6	11.03.2026	Angiosperms and Gymnosperms						2, 10	
Week 7	18.03.2026	Differences between botany of fruit and vegetables						2, 134	
Week 8	25.03.2026	C3, C4 and CAM Plants						2, 12	
Week 9	01.04.2026	Leaf Anatomy and Morphology						1, 23	
Week 10	04-12 April 2026	Midterm(s)							
Week 11	15.04.2026	Meiosis and Fertilization						2, 68	
Week 12	22.04.2026	Root Anatomy						1, 12	
Week 13	29.04.2026	Plant Taxonomy						2, 10	
Week 14	06.05.2026	Seedless Plants						2, 12	
Week 13	13.05.2026	Plant Tissues						1, 8	
Week 15	16-25 May 2026	Final Exam							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1	16-25 May 2026	50	100				
	Semester Evaluation			50					
	Midterm(s)	1	04-12 April 2026	40	80				
	Quiz(zes)								
	Project(s)								
	Homework(s)	1		10	20				
Laboratory									
Attendance									
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English			
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours				
Theoretical lecture hours (TLH)	14	28	Homework	1	6				
TLH Self Study	14	84	Mid-term Exam (ME)	1	2				
Quiz (Q)	0	0	ME preparation self study	1	8				
Q preparation self study	0	0	Seminar	0	0				
Laboratory (L)	0	0	Presentation	0	0				
L preparation self study	0	0	Project	0	0				
Applied Hours (AH)	14	28	Final Exam (FE)	1	2				
AH preparation self study	14	72	FE preparation self study	1	10				
					TOTAL :	240			
					Recommended ECTS Credit (Total Hours / 30) :	8.00			

EUROPEAN UNIVERSITY OF LEFKE - "Faculty of Agricultural Sciences and Technologies"



**"Department of Horticulture"
SYLLABUS
2025-2026 Spring Semester**

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule										
			T	A	L													
AGRI204	Plant and Soil Laboratory	Compulsory	2	0	2	3	6	Tuesday 12:00-13:50, AS119 Friday 11:00-12:50, Lab										
Prerequisite:	n/a		Prerequisite to:			n/a												
Semester:	4th Semester	Frequency:	each spring term			Planned class size:		30 students										
Teaching methods:	Lectures, laboratory exercises, assignment and discussions					Duration:		1 semester										
Course Lecturer:	Assoc. Prof. Dr. İbrahim Kahramanoğlu					Office Hours Schedule:		Monday 10:00-11:50, Wednesday 10:00-11:50										
E-mail	ikahramanoglu@eul.edu.tr					Office/Room No: AS 238 & Institute 203												
Phone	+90 392 660 2000 - 2845					Phone:												
Teaching Assistant:						Office/Room No:												
E-mail:																		
Course Objectives:	Objectives of this course are making students familiar with the basic principles of soil and plant sampling techniques, introducing to various measurement systems and equipment, and with the determination of basis soil properties, nutrient element contents of soil and plant samples, extended examples of various laboratory calculations. The expected outcome is a better appreciation of soil and plant analyses in the assessment of soil fertility and nutritional status of crop plants for more efficient fertilizer applications.																	
Learning Outcomes:	Purpose of the course can be summarized as below: 1) Learning basic principles of laboratory procedures, equipments and instruments for measurements 2) Provide students with an understanding of the importance of plant and soil analysis (including salinity) 3) Provide students with a knowledge of how to collect plant (including fruit and leaf) and soil samples 4) Learning the basic principles and guidelines of plant and soil analysis and how to read the results 5) Provide students with a knowledge about how to perform fruit quality analysis, chlorophyll and carotenoids, acidity, phenolics and etc.																	
Programme Outcome Relations	PO1: 4 PO2: 2 PO3: 3 PO4: 1 PO5: 5	PO6: 4 PO7: 3 PO8: 4 PO9: 1 PO10: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.															
Textbooks and/or References:	<table border="1"> <tr><td>1</td><td>Estefan, G., Sommer, R. and Ryan, C. (2013). Methods of Soil, Plant and Water Analysis: A manual for the west Asia and North Africa regions (third Edition). ICARDA, 243p.</td></tr> <tr><td>2</td><td>Westerman, R.L. (1990). Soil- Testing and Plant Analysis (Third Edition). Soil Science Society of America, Inc. Madison, Wisconsin, USA, 757p.</td></tr> <tr><td>3</td><td>Jones, J.B. (2001). Laboratory Guide for Conducting Soil Tests and Plant Analysis (1st Edition). CRC Press, ISBN 9780849302060</td></tr> <tr><td>4</td><td>Kalra, Y. (1997). Handbook of reference methods for plant analysis. CRC press.</td></tr> <tr><td>5</td><td></td></tr> </table>								1	Estefan, G., Sommer, R. and Ryan, C. (2013). Methods of Soil, Plant and Water Analysis: A manual for the west Asia and North Africa regions (third Edition). ICARDA, 243p.	2	Westerman, R.L. (1990). Soil- Testing and Plant Analysis (Third Edition). Soil Science Society of America, Inc. Madison, Wisconsin, USA, 757p.	3	Jones, J.B. (2001). Laboratory Guide for Conducting Soil Tests and Plant Analysis (1st Edition). CRC Press, ISBN 9780849302060	4	Kalra, Y. (1997). Handbook of reference methods for plant analysis. CRC press.	5	
1	Estefan, G., Sommer, R. and Ryan, C. (2013). Methods of Soil, Plant and Water Analysis: A manual for the west Asia and North Africa regions (third Edition). ICARDA, 243p.																	
2	Westerman, R.L. (1990). Soil- Testing and Plant Analysis (Third Edition). Soil Science Society of America, Inc. Madison, Wisconsin, USA, 757p.																	
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4	Kalra, Y. (1997). Handbook of reference methods for plant analysis. CRC press.																	
5																		
WEEK	Date	TOPICS					Reference No - Section											
Week 1	03/02/2026	Laboratory Procedures and Equipments					1, 2, 3											
Week 2	10/02/2026	Instruments for Measurements and the Soil					1, 2, 3											
Week 3	17/02/2026	Soil Sampling and Some Tests					1, 2, 3											
Week 4	24/02/2026	Soil pH and Some Chemical Analysis					1, 2, 3											
Week 5	03/03/2026	Some Chemical Analysis (continue)					1, 2, 3											
Week 6	10/03/2026	Salinity in Irrigation Water					1, 2, 3											
Week 7	17/03/2026	Plant Sampling and Some Analysis					1, 2, 3											
Week 8	24/03/2026	Chlorophylls and Carotenoids Content Measurement					1, 2, 3											
Week 9	31/03/2026	Fruit Quality Analysis					1, 2, 3											
Week 10	04-12.04.2026	Mid-term Exam																
Week 11	14/04/2026	Acidity and Some Postharvest Storage Quality Parameters					3, 4											
Week 12	21/04/2026	UPOV Criterias					3, 4											
Week 13	28/04/2026	Ascorbic Acid Measurement					4											
Week 14	05/05/2026	Total Phenolics and Flavonoids Measurement					4											
Week 15	12/05/2026	Free radicals and Antioxidant Activity					4											
Week 16	16-25.05.2026	Final exam																
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)													
	Final Exam	1	16-25.05.2026	50														
	Semester Evaluation			50														
	Midterm(s)	1	04-12.04.2026	40	80													
	Quiz(zes)	0		0	0													
	Project(s)	0		0	0													
	Homework(s)	1		10	20													
	Laboratory	0		0	0													
Attendance	0		0	0														
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English												
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours													
Theoretical lecture hours (TLH)	14	28	Homework	1	4													
TLH Self Study	14	56	Mid-term Exam (ME)	1	2													
Quiz (Q)	0	0	ME preparation self study	1	6													
Q preparation self study	0	0	Seminar	0	0													
Laboratory (L)	0	0	Presentation	0	0													
L preparation self study	0	0	Project	0	0													
Applied Hours (AH)	14	28	Final Exam (FE)	1	2													
AH preparation self study	14	44	FE preparation self study	1	10													
TOTAL :					180													
Recommended ECTS Credit (Total Hours / 30) :					6.00													

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name		Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
				T	A	L				
AGRI 207	Soil Science		Compulsory	3	0	0	3	5	Thursday, 09.00-11.50, AS112	
Prerequisite:	n/a		Prerequisite to:			n/a				
Semester:	3rd Semester	Frequency:	each fall term			Planned class size:	30 students			
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:	1 semester			
Course Lecturer:	Assoc. Prof. Dr. İbrahim Kahramanoğlu					Office Hours Schedule:	Monday 10:00-12:00; Wednesday 10:00-12:00			
E-mail	ikahramanoglu@eul.edu.tr					Office/Room No:	Institute office			
Phone	+90 392 660 2000 / 2845					Phone:				
Teaching Assistant:						Office/Room No:				
E-mail:						Office/Room No:				
Course Objectives:	This course emphasizes the complex nature of the soils as a medium of plant production and in a broader sense as a life supporting system with respect to their formation, basic functions, use, conservation and limitations. Morphological, mineralogical, chemical, physical and biological properties of soils will be elaborated in some detail with respect to their production potentials. The expected outcome is a broader view of soils in relation to soil fertility and to their value as a natural resource.									
Learning Outcomes:	Purpose of the course can be summarized as below: 1) Learn the basic principles of soil science and understand the soil as a medium for plant growth; 2) Have knowledge about soil forming, soil properties and soil characteristics (both chemical and physical); 3) Understand the relationship between the soil, water and plant nutrients; 4) Have the ability to select suitable crops for different soil and define best way for soil management and plant nutrition.									
Programme Outcome Relations	PO1: 4 PO2: 1 PO3: 5 PO4: 2 PO5: 4	PO6: 2 PO7: 1 PO8: 2 PO9: 1 PO10: 2							(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.	
Textbooks and/or References:	1 USDA (2014). Keys to Soil Taxonomy (by Soil Survey Staff). Twelfth Edition, 360p. 2 Lal, R. and Stewart, B.A. (2018). Soil and Climate. 1st Edition, CRC Press, 434p. ISBN 978149878365 3 Lal, R. and Stewart, B.A. (2013). Principles of Sustainable Soil Management in Agroecosystems. 1st Edition, CRC Press, 568p. ISBN 9781466513464 4 Tan, K.H. (2009). Environmental Soil Science. 3rd Edition. 600p. ISBN 9781420072808 5 Mukherjee, S. (2022). Current topics in soil science: an environmental approach. Springer Nature. 6 Sparks, D. L. (2019). Fundamentals of soil chemistry. Encyclopedia of Water: Science, Technology, and Society, 1-11.									
WEEK	Date	TOPICS						Reference No - Section		
Week 1	25/09/2025	Introduction: Principles of Soil Science						1, 2, 3		
Week 2	02/10/2025	Soil Forming: Factors and Process						1, 2		
Week 3	09/10/2025	Important Soil Properties: Soil physical properties						1, 2, 3		
Week 4	16/10/2025	Important Soil Properties: Soil physical properties (continue)						1, 2		
Week 5	23/10/2025	Important Soil Properties: Soil chemical properties						1, 2		
Week 6	30/10/2025	Soil Water Management						1, 2, 4		
Week 7	06/11/2025	Soil pH and Alteration						1, 2		
Week 8	08 - 16/11/2025	Mid-term exam								
Week 9	20/11/2025	Essential plant nutrients and fertilizers						1, 2		
Week 10	27/11/2025	Soil Testing and Plant Analysis						1, 2, 3		
Week 11	04/12/2025	Erosion and Soil Degradation						1, 2		
Week 12	11/12/2025	Tillage and compaction management						2, 3, 4		
Week 13	18/12/2025	Soil air and soil temperature						1, 3, 4		
Week 14	25/12/2025	Soil organisms and soil ecology & Soil health						1, 3, 4		
Week 15	01/01/2026	Holiday								
Week 16	03 - 11/01/2026	Final exam								
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)					
	Final Exam	1	03 - 11/01/2026	50						
	Semester Evaluation				50					
	Midterm(s)	1	08 - 16/11/2025	40	80					
	Quiz(zes)	0		0	0					
	Project(s)	0		0	0					
	Homework(s)	1		10	20					
	Laboratory	0		0	0					
Attendance	0		0	0						
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English				
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours					
Theoretical lecture hours (TLH)	14	28	Homework	1	4					
TLH Self Study	14	42	Mid-term Exam (ME)	1	2					
Quiz (Q)	0	0	ME preparation self study	1	4					
Q preparation self study	0	0	Seminar	0	0					
Laboratory (L)	4	8	Presentation	0	0					
L preparation self study	4	6	Project	0	0					
Applied Hours (AH)	10	20	Final Exam (FE)	1	2					
AH preparation self study	14	28	FE preparation self study	1	6					
					TOTAL :	150				
					Recommended ECTS Credit (Total Hours / 30) :	5.00				

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



**"Department of Horticulture"
SYLLABUS
2025-2026 Spring Semester**

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
			T	A	L				
AGRI 216	Plant Physiology	Compulsory	3	0	0	3	5	Thursday 9:00 - 11:50 AM	
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	8th Semester	Frequency:	each spring term			Planned class size:	20 students		
Teaching methods:	Lectures, assignment and discussions					Duration:	1 semester		
Course Lecturer:	Prof. Dr. Mehmet Atilla Aşkın				Office Hours Schedule:	Tuesday 14:00 -15:30			
E-mail	maskin@eul.edu.tr				Office/Room No:	Dean office			
Phone	+90 392 660 2000-2502 / 0533 8751224				Phone:				
Teaching Assistant:					Office/Room No:				
E-mail:					Office/Room No:				
Course Objectives:	Plant physiology is a branch of biological science that studies plant function that means what is going on in plants that accounts for their being alive. The scope of plant physiology is a science is very broad, ranging from biophysics and molecular genetics to environmental physiology and agronomy. Photosynthetic metabolism not only provides carbon and energy for the growing plant, but the determines the capacity of the plant to withstand environmental stress. The growth and development of roots, stems, leaves, and flowers are regulated by a host of interacting factors such as light, temperature, hormones, nutrition and carbon metabolism. Plant physiology is also very active field of study and new revelations about how								
Learning Outcomes:	1. Learn the basic principles of Plant Physiology 2. Have knowledge about plant cell organelles 3. Understand Plant cytoskeleton 4. Learn plant cell and water relationship								
Programme Outcome Relations	PO1: 5 PO2: 5 PO3: 3 PO4:4 PO5: 5 PO6: 4		PO7: 5 PO8: 4 PO9: 3 PO10: 5		(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.				
Textbooks and/or References:	1	Plant Physiology, L. Taiz and E. Zeiger, 2003, Sinauer Associates, ISBN: 0878938230, 690 pages.							
	2	Introduction to Plant Physiology, W. G. Hopkins and N. P. A. Hüner, 2009, John Wiley & Sons, Inc., ISBN: 9780470247662							
	3	Handbook of Plant and Crop Physiology, M. Pessaraki, 2002, Marcel Dekker, Inc., ISBN: 0-8247-0546-7							
	4	Physicochemical and Environmental Plant Physiology, P.S. Nobel, 2009, Elsevier Inc., ISBN: 978-0-12-374143-1							
	5								
WEEK	Date	TOPICS					Reference No - Section		
Week 1	03.02.26	Introduction to Plant Physiology					1, 2, 3, 4		
Week 2	10.02.26	Plant Cell					1, 2, 3, 4		
Week 3	17.02.26	Plant-Water Relations					1,2,3,4		
Week 4	24.02.26	Mineral Nutrition					1, 2, 3, 4		
Week 5	03.03.26	Soils, Roots and Microorganisms					1, 2, 3, 4		
Week 6	10.03.26	Transport and Translocation of Water and Solutes					1, 2, 3, 4		
Week 7	17.03.26	Photosynthesis-Light Reactions					1, 2, 3, 4		
Week 8	24.03.26	Photosynthesis-Carbon Reactions					1, 2, 3, 4		
Week 9	31.03.26	Mid-term exam							
Week 10	07.04.26	Respiration					1, 2, 3, 4		
Week 11	14.04.26	Secondary Metabolites and Plant Defense I					1, 2, 3, 4		
Week 12	21.04.26	Secondary Metabolites and Plant Defense II					1, 2, 3, 4		
Week 13	28.04.26	Growth and Development I					1, 2, 3, 4		
Week 14	05.05.26	Growth and Development II					1, 2, 3, 4		
Week 15	12.05.26	Plant Growth Regulators (Fist Five)					1, 2, 3, 4		
	16-25.05.26	Final exam							
Evaluation Tools		Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)			
		Final Exam	1		50	50			
		Semester Evaluation					50		
		Midterm(s)	1		50	50			
		Quiz(zes)	0		0	0			
		Project(s)	0		0	0			
		Homework(s)	0		0	0			
		Laboratory	0		0	0			
Attendance	0		0	0					
*** Lifelong Learning Programme (LLP) ***					Language of Instruction:		English		
Evaluation Tool	Quantity	Student Workload Hours			Evaluation Tool	Quantity	Student Workload Hours		
Theoretical lecture hours (TLH)	14	42			Homework	0	0		
TLH Self Study	14	84			Mid-term Exam (ME)	1	4		
Quiz (Q)	0	0			ME preparation self study	1	6		
Q preparation self study	0	0			Seminar	0	0		
Laboratory (L)	0	0			Presentation	0	0		
L preparation self study	0	0			Project	0	0		
Applied Hours (AH)	0	0			Final Exam (FE)	1	4		
AH preparation self study	0	0			FE preparation self study	1	10		
					TOTAL :		150		
					Recommended ECTS Credit (Total Hours / 30) :		5.00		

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name		Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
				T	A	L			
AGRI 217	Phytopathology		Compulsory	3	0	0	3	4	Tuesday / 14.00-16.50
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	3rd Semester	Frequency:	each fall term			Planned class size:			
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:		1 semester	
Course Lecturer:	Asst. Prof. Dr. Turgut Alas					Office Hours Schedule:		Monday / 09.00-12.00	
E-mail	talas@eul.edu.tr					Office/Room No:		AS240	
Phone	+90 392 660 2000-2526					Phone:			
Teaching Assistant:						Office/Room No:			
E-mail:									
Course Objectives:	Etiology, symptoms, mode of spread, survival, epidemiology and management of diseases of horticulture crops. Study of symptoms and host – parasite relationship of important diseases of fruits, vegetables, spices and condiments, plantation and horticulture crops.								
Learning Outcomes:	1. Identify factors, symptoms, and cycles of plant diseases. Define the role of suppression options as explained by the disease triangle. 2. Identify abiotic and biotic factors, plant pathogens. 3. Describe biological attributes of various types of plant diseases. 4. Identify plant selection and resistance as a plant disease control option.								
Textbooks and/or References:	1 Arjunan, G. Karthikeyan, G. Dinakaran, D. Raguchander, T.1999. Diseases of Horticultural Crops, AE Publications, Coimbatore 2 Snowden, A.L. 1990. A Colour atlas of Post harvest diseases and disorders. Vol I & II Wolfe Scientific Limited. 3 Singh, R.S.1999. Diseases of Vegetable Crops. Oxford & IBH Publications, New Delhi. 247. 4 Pathak, P.N. 2001. Diseases of Fruit Crops. Oxford & IBH Publications, New Delhi. 350. 5								
WEEK	Date	TOPICS						Reference No - Section	
Week 1		Disease Triangle, Abiotic and Biotic Factors						1	
Week 2		Objectives of Plant Pathology						1	
Week 3		Plant Disease General Concept						1	
Week 4		Plant Pathogenic Fungus						2	
Week 5		Plant Pathogenic Bacteria						2	
Week 6		Plant Pathogenic Virus, General Virus Symptoms						2	
Week 7		Plant Pathogenic Virus, General Virus Symptoms						2	
Week 8		MIDTERM EXAM							
Week 9		Management of Plant Diseases						3	
Week 10		Polymerase Chain Reaction (PCR)						3	
Week 11		Interactions of Plant Pathogenic Bacteria and Plant Growth Promoting Rhizobacteria with Plant						3	
Week 12		Gel Electrophoresis						3	
Week 13		Nutrient Deficiency Symptoms						4	
Week 14		Environmental Stress and Plant Growth						4	
Week 15		Final exam							
Week 16		Final exam							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)		Weight in Semester Evaluation (%)			
	Final Exam	1		50					
	Semester Evaluation			50					
	Midterm(s)	1		40		100			
	Quiz(zes)	0		0		0			
	Project(s)	0		0		0			
	Homework(s)	1		10		0			
	Laboratory	0		0		0			
Attendance	0		0		0				
*** Lifelong Learning Programme (LLP) ***									
			Language of Instruction:			English			
Evaluation Tool	Quantity	Student Workload Hours		Evaluation Tool	Quantity	Student Workload Hours			
Theoretical lecture hours (TLH)	14	42		Homework	0	0			
TLH Self Study	14	60		Mid-term Exam (ME)	1	2			
Quiz (Q)	0	0		ME preparation self study	1	6			
Q preparation self study	0	0		Seminar	0	0			
Laboratory (L)	0	0		Presentation	0	0			
L preparation self study	0	0		Project	0	0			
Applied Hours (AH)	0	0		Final Exam (FE)	1	2			
AH preparation self study	0	0		FE preparation self study	1	8			
TOTAL :								120	
Recommended ECTS Credit (Total Hours / 30) :								4.00	

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name		Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule			
				T	A	L						
AGRI 218	Entomology		Compulsory	2	2	0	3	5	Tuesday 14:00-17:00			
Prerequisite:	n/a		Prerequisite to:			n/a						
Semester:	4th Semester	Frequency:	each spring term			Planned class size:		30 students				
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:		1 semester				
Course Lecturer:	Assist. Prof. Dr. Murat Helvacı					Office Hours Schedule:		Monday 14:00-17:00, Tuesday 09:00-12:00, Wednesday 09:00-11:00;15:00-17:00, Friday 09:00-12:00;14:00-17:00				
E-mail	mhelvacı@eul.edu.tr					Office/Room No:		AS 240				
Phone	0 542 850 0336					Phone:						
Teaching Assistant:						Office/Room No:						
E-mail:						Phone:						
Course Objectives:	To understand insect pests, their biology, morphology and learning basic control tactics in Integrated Pest Management.											
Learning Outcomes:	Learning outcomes of the lecture can be summarized as below: 1- Identify to Order, at sight, any common insect; 2- Identify to Family, at sight and with the aid of keys, several members of common Orders; 3- Correctly spell all Family names; 4- Learn the name, history, biology, habitat and hosts of each taxa.											
Programme Outcome Relations	PO1: 3 PO2: 1 PO3: 4 PO4: 5 PO5: 2 PO6: 1	PO7: 1 PO8: 2 PO9: 1 PO10: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.									
Textbooks and/or References:	1 Fakhri, M. S. A, Gindaba, A., Negeri, M. (2022). Handbook of Insect Morphology Physiology & Taxonomy (1st Edition). Akinik Publications, India. 533p. 2 Wins, J. A., Kumari V. J., Babasaheb, J. S., Kumar, K. R., Mahamuni, R. R., Sangeetha, P. (2022). Textbook of Entomology (1st Edition). AIB Saliha Publications, India. 239p. 3 Patel, L. C. (2023). Applied Entomology: Insect Ecology and Integrated Pest Management (1st Edition). CRC Press, 331p.											
WEEK	Date	TOPICS						Reference No - Section				
Week 1	03.02.2026	Morphology of Insect Body						1,2/3,1				
Week 2	10.02.2026	Pest Management						2,5/3,5/3,14/3,15/3,16				
Week 3	17.02.2026	Learning External Anatomy of Insects						1,2				
Week 4	24.02.2026	Determination of Grasshoppers (Orthoptera)						1,3/1,6				
Week 5	03.03.2026	Determination of Earwigs (Dermaptera)						1,6				
Week 6	10.03.2026	Determination of Order Lepidoptera						1,9/2,3/3,13				
Week 7	17.03.2026	Determination of Neuroptera (Lacewings)						1,8-1,11				
Week 8	24.03.2026	Determination of Order Hymenoptera						2,2				
Week 9	31.03.2026	Determination Hemiptera and Homoptera Orders						1,3/1,7/2,4/2,6				
Week 10	04-12 April 2026	Midterm(s)										
Week 11	14.04.2026	Determination of Order Thysanoptera						2,4				
Week 12	21.04.2026	Determination of Order Odonata						1,5				
Week 13	28.04.2026	Determination of Order Coleoptera						1,12/2,2				
Week 14	05.05.2026	Determination of Order Diptera						1,10/2,4				
Week 15	12.05.2026	Determination of Psocoptera						1,7				
Week 16	16-25 May 2026	Final Exam										
Evaluation Tools	Evaluation Tool		Quantity	Date		Weight in Total (%)	Weight in Semester Evaluation (%)					
	Final Exam		1	16-25 May 2026		50	100					
	Semester Evaluation					50						
	Midterm(s)		1	04-12 April 2026		40	80					
	Quiz(zes)											
	Project(s)											
	Homework(s)		1			10	20					
Laboratory												
Attendance												
*** Lifelong Learning Programme (LLP) ***									Language of Instruction:		English	
Evaluation Tool	Quantity	Student Workload Hours			Evaluation Tool	Quantity	Student Workload Hours					
Theoretical lecture hours (TLH)	13	26			Homework	1	2					
TLH Self Study	13	52			Mid-term Exam (ME)	1	2					
Quiz (Q)	0	0			ME preparation self study	1	4					
Q preparation self study	0	0			Seminar	0	0					
Laboratory (L)	0	0			Presentation	0	0					
L preparation self study	0	0			Project	0	0					
Applied Hours (AH)	13	22			Final Exam (FE)	1	2					
AH preparation self study	13	36			FE preparation self study	1	4					
TOTAL :							150					
Recommended ECTS Credit (Total Hours / 30) :							5.00					

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
AGRI 226	Plant Biochemistry	Compulsory	3	0	0	3	5	Thursday / 14.00-17.00
Prerequisite:	n/a		Prerequisite to:			n/a		
Semester:	4th Semester	Frequency:	each spring term			Planned class size:	20	
Teaching methods:	Lectures				Duration:	1 semester		
Course Lecturer:	Asst. Prof. Dr. Turgut Alas				Office Hours Schedule:	re-announced each semester		
E-mail	talas@eul.edu.tr				Office/Room No:	AS310		
Phone	+90 392 660 2000-2576				Office/Room No:	AS310		
Teaching Assistant:					Phone:			
E-mail:					Office/Room No:			
Course Objectives:	Plant Biochemistry is designed as a course to expose the students to the biochemical processes that take place in plant such as plant metabolism, photosynthesis, plant secondary metabolites, plant hormones, and the use of plant in folklore medicine.							
Learning Outcomes:	1. Understand plant cell structure, organization, and apply specific biochemical functions to all compartments of the plant cell. Learn the structure, function and biosynthetic pathways of essential biochemical molecules including their key chemical and physical properties. 2. Learn amino acid structures and relate their chemical properties to the synthesis and function of proteins and enzymes. 3. Understand how light energy is captured and used to provide chemical forms of energy to power the functions of cells and whole plants. The importance of CO ₂ fixation and carbohydrate metabolism will be presented. The nature and composition of plant cell walls will be explored. 4. Learn about the rich diversity of secondary compounds and metabolism in plants and how such compounds contribute to human health.							
Textbooks and/or References:	1	Nelson, D. L. and. Cox, M. M. (2005): Lehninger's.Principles.of.Biochemistry. W. H Freeman and Company, New York.						
	2	Farabee, M.J. (2007): Cells II: Cellular Organization						
	3	Bob B. Buchanan, Wilhelm Gruissem, et al. 2015. Biochemistry and Molecular Biology of Plants.						
	4							
	5							
WEEK	Date	TOPICS						Reference No - Section
Week 1	05.02.26	Structure and biochemical aspects of cell organelles						1
Week 2	12.02.26	Cell Division						1, 2
Week 3	19.02.26	Photosynthesis						1, 2
Week 4	26.02.26	Respiration						1, 2
Week 5	05.03.26	Carbohydrates, Classification of Carbohydrates						1, 2
Week 6	12.03.26	Glycolysis, Kreb's Cycle and Phosphorylation						1, 2
Week 7	19.03.26	Primary Metabolism of Polysaccharides						1, 2
Week 8	26.03.26	Lipids and their metabolism						1, 2
Week 9	02.04.26	Proteins and Nucleic Acids						1, 2, 3
Week 10		Midterm Exam						
Week 11	16.04.26	Cell Wall Structure						1, 2, 3
Week 12	23.04.26	Holiday						
Week 13	30.04.26	Nitrogen Cycle and Nitrogen Fixation						1
Week 14	07.05.26	Secondary Metabolites						1
Week 15	14.05.26	Secondary Metabolites						1
Week 16		Final exam						
Evaluation Tools	Evaluation Tool	Quantity	Date			Weight in Total (%)	Weight in Semester Evaluation (%)	
	Final Exam	1	16-25 May 2026			50		
	Semester Evaluation					50		
	Midterm(s)	1	04-12 April 2026			40	80	
	Quiz(zes)	0				0	0	
	Project(s)	0				0	0	
	Homework(s)	1				10	20	
	Laboratory	0				0	0	
	Attendance	0				0	0	
*** Lifelong Learning Programme (LLP) ***								
					Language of Instruction:			English
Evaluation Tool	Quantity	Student Workload Hours			Evaluation Tool	Quantity	Student Workload Hours	
Theoretical lecture hours (TLH)	14	42			Homework	1	3	
TLH Self Study	14	84			Mid-term Exam (ME)	1	2	
Quiz (Q)	0	0			ME preparation self study	1	8	
Q preparation self study	0	0			Seminar	0	0	
Laboratory (L)	0	0			Presentation	0	0	
L preparation self study	0	0			Project	0	0	
Applied Hours (AH)	0	0			Final Exam (FE)	1	2	
AH preparation self study	0	0			FE preparation self study	1	10	
TOTAL :							151	
Recommended ECTS Credit (Total Hours / 30) :							5.03	

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name		Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
				T	A	L				
AGRI 228	Field Crops		Compulsory	2	2	0	3	5	Thursday 09:00-12:00	
Prerequisite:	n/a		Prerequisite to:			n/a				
Semester:	4th Semester	Frequency:	each spring term			Planned class size:		30 students		
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:		1 semester		
Course Lecturer:	Assist. Prof. Dr. Murat Helvacı					Office Hours Schedule:		Monday 14:00-17:00, Tuesday 09:00-12:00, Wednesday 09:00-11:00;15:00-17:00, Friday 09:00-12:00;14:00-17:00		
E-mail	mhelvacı@eul.edu.tr					Office/Room No:		AS 240		
Phone	0 542 850 0336					Phone:				
Teaching Assistant:						Office/Room No:				
E-mail:						Phone:				
Course Objectives:	Learn to recognize different field crops and their characteristics.									
Learning Outcomes:	Learning outcomes of the lecture can be summarized as below: 1- Introduce students to the basic concepts of field crops (corn, wheat, cotton, soybean, and other) growth. 2- Develop the students' understanding and comprehension of agronomic production practices of field crops 3- Develop students understanding equipment used in crop production.									
Programme Outcome Relations	PO1: 5 PO2: 1 PO3: 2 PO4: 3 PO5: 4 PO6: 1	PO7: 4 PO8: 3 PO9: 1 PO10: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.							
Textbooks and/or References:	1	Joshi, M. (2015). Textbook of Field Crops. PHI Learning, India, 580p.								
	2	Jayaraman, N. (2015). Nutrient Deficiencies of Field Crops: Guide to Diagnosis and Management, United States: Scitus Academics LLC. 250p.								
WEEK	Date	TOPICS						Reference No - Section		
Week 1	05.02.2026	History of Field Crops-Agronomic Classification of Field Crops						1,1.2-1,1.10		
Week 2	12.02.2026	Economics of Field Crops in the World						1,1.1		
Week 3	19.02.2026	Preparation of Seedbed						1,1.11		
Week 4	26.02.2026	Germination and Growth						1,20.7		
Week 5	05.03.2026	Crop rotation						1,18.14		
Week 6	12.03.2026	Tillage Practices						1,18.14		
Week 7	19.03.2026	Bayram Holiday								
Week 8	26.03.2026	Crops and Their Relation to Environment						1,19.5		
Week 9	02.04.2026	Fertilizers						2,1/2,2		
Week 10	04-12 April 2026	Midterm(s)								
Week 11	16.04.2026	Seeds and Seeding Practices						1,1.8		
Week 12	23.04.2026	Public Holiday								
Week 13	30.04.2026	Cereals (Corn, Wheat, Barley) - Legumes and Miscellaneous and Sweet Potato Production						1,1/1,7/2,1 - 1,3/2,2-2,5		
Week 14	07.05.2026	Forage Crops (Alfalfa) and Jute Production						1,5.20/1,13/2,6		
Week 15	14.05.2026	Industrial Crops (Sunflower, Cotton, Potato)						1,4/1,5/1,12/2,3/2,5		
Week 16	16-25 May 2026	Final Exam								
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)					
	Final Exam	1	16-25 May 2026	50	100					
	Semester Evaluation			50						
	Midterm(s)	1	04-12 April 2026	40	80					
	Quiz(zes)	1								
	Project(s)									
	Homework(s)	1		10	20					
Laboratory										
Attendance										
*** Lifelong Learning Programme (LLP) ***										
						Language of Instruction:		English		
Evaluation Tool	Quantity	Student Workload Hours			Evaluation Tool	Quantity	Student Workload Hours			
Theoretical lecture hours (TLH)	13	26			Homework	1	2			
TLH Self Study	13	52			Mid-term Exam (ME)	1	2			
Quiz (Q)	0	0			ME preparation self study	1	4			
Q preparation self study	0	0			Seminar	0	0			
Laboratory (L)	0	0			Presentation	0	0			
L preparation self study	0	0			Project	0	0			
Applied Hours (AH)	13	22			Final Exam (FE)	1	2			
AH preparation self study	13	36			FE preparation self study	1	4			
TOTAL :							150			
Recommended ECTS Credit (Total Hours / 30) :							5.00			

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
			T	A	L				
AGRI 251	Vegetable Production I	Compulsory	3	0	0	3	5	Wednesday 14:00-17:00	
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	3rd Semester	Frequency:	each fall term			Planned class size:	30 students		
Teaching methods:	Lectures, assignment and discussions					Duration:	1 semester		
Course Lecturer:	Assist. Prof. Dr. Serhat Usanmaz					Office Hours Schedule:			
E-mail	susanmaz@eul.edu.tr					Office/Room No: Güzelyurt Research and Application Farm			
Phone	+90 392 660 2000					Phone:			
Teaching Assistant:						Office/Room No:			
E-mail:									
Course Objectives:	Vegetables are vital sources of minerals, vitamins and dietary fibers. Recent development in agriculture and horticulture has influenced positively vegetable production in the world. The aim of this course is to provide students a basic knowledge of the principles of vegetable growing technologies. The course starts with the classification of vegetables and their economic importance and nutritional values. The major topics of the course are "vegetable production systems and exploitation forms", "ecological and economic factors influencing vegetable production", "planning a vegetable garden or exploitation", "seed propagation and seedling production", "soil preparation", "seeding and transplanting", "management practices", "pest, disease and weed control" and "crop rotation". "Harvesting", "postharvest handling", "storage and market preparation of vegetables" are also discussed.								
Learning Outcomes:	1) The aim of this course is to provide to student detailed information on the principles and practices of commercial vegetable production, flower types of vegetables and fertilisation biology, including the most important vegetables belonging to Solanaceae, Cucurbitaceae, Malvaceae, Fabaceae, Amariyllidaceae, Liliaceae, Brassicaceae, Umbelliferae, Chemopodiaceae and Compositae families. 2) Students will learn the basic methods of vegetable grafting and plant care. 3) Students will be able to choose appropriate production systems and technologies, irrigation systems and diagnose problems related to biotic and abiotic stress and to find suitable solutions to these problems.								
Programme Outcome Relations	PO1: 5 PO2: 1 PO3: 3 PO4: 2 PO5: 4 PO6: 1	PO7: 2 PO8: 1 PO9: 1 PO10: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.						
Textbooks and/or References:	1 Salunkhe, D. K., & Kadam, S. S. (1998). Handbook of vegetable science and technology: production, composition, storage, and processing. CRC press. 2 Sinha, N. K., Hui, Y. H., Evranuz, E. Ö., Siddiq, M., & Ahmed, J. (2010). Handbook of vegetables and vegetable processing. John Wiley & Sons. 3 Welbaum, G. E. (2015). Vegetable production and practices. CABI. 4 Colla, G., Pérez-Alfocea, F., & Schwarz, D. (2017). Vegetable grafting: principles and practices. CABI.								
WEEK	Date	TOPICS					Reference No - Section		
Week 1	24.09.2025	Introduction to vegetable production					1, 2, 3		
Week 2	01.10.2025	Vegetable production systems and exploitation forms					1, 2, 3		
Week 3	08.10.2025	Ecological factors influencing vegetable production					1, 2, 3		
Week 4	15.10.2025	Economic factors influencing vegetable production					1, 2		
Week 5	22.10.2025	Planning a vegetable garden or exploitation					1, 2, 3		
Week 6	29.10.2025	Public Holiday							
Week 7	05.11.2025	Seed propagation and seedling production - Soil preparation					1, 2, 3		
Week 8	08-16 Nov. 2025	Mid-term exam							
Week 9	19.11.2025	Seeding and transplanting					1,2,3		
Week 10	26.11.2025	Management practices (including grafting and plant care)					1, 2, 3, 4		
Week 11	03.12.2025	Pest, disease and weed control					1, 2, 3		
Week 12	10.12.2025	Crop rotation					1, 2, 3		
Week 13	17.12.2025	Harvesting					1, 2		
Week 14	24.12.2025	Postharvest handling - Storage and market preparation of vegetables					1, 2 - 1,2,3		
Week 15	31.12.2025	Public Holiday							
Week 16	03-11 Jan. 2026	Final exam							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1	03-11 January 2026	60					
	Semester Evaluation			40					
	Midterm(s)	1	08-16 November 2025	40	100				
	Quiz(ze)s	0		0	0				
	Project(s)	0		0	0				
	Homework(s)	0		0	0				
	Laboratory	0		0	0				
Attendance	0		0	0					
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English			
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours				
Theoretical lecture hours (TLH)	14	42	Homework	0	0				
TLH Self Study	14	84	Mid-term Exam (ME)	1	2				
Quiz (Q)	0	0	ME preparation self study	1	8				
Q preparation self study	0	0	Seminar	0	0				
Laboratory (L)	0	0	Presentation	0	0				
L preparation self study	0	0	Project	0	0				
Applied Hours (AH)	0	0	Final Exam (FE)	1	2				
AH preparation self study	0	0	FE preparation self study	1	12				
					TOTAL :	150			
					Recommended ECTS Credit (Total Hours / 30) :	5.00			

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name		Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
				T	A	L			
AGRI 252	Vegetable Production II		Compulsory	2	2	0	3	5	<i>Wednesday 09:00-12:00</i>
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	4th Semester	Frequency:	each spring term			Planned class size:		30 students	
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:		1 semester	
Course Lecturer:	Assist. Prof. Dr. Serhat Usanmaz					Office Hours			
E-mail	susanmaz@eul.edu.tr					Schedule:			
Phone	0542 880 6373					Office/Room No:		AUÇ	
Teaching Assistant:						Phone:			
E-mail:						Office/Room No:			
Course Objectives:	This course provides students detailed information on the principles and practices of commercial vegetable production. In the course, the most important vegetables belonging to Solanaceae, Cucurbitaceae, Malvaceae, Fabaceae, Amariyllidaceae, Liliaceae, Brassicaceae, Umbelliferae, Chenopodiaceae and Compositae families will be described.								
Learning Outcomes:	1) To improve the knowledge of the students about the biology, reproduction and production of major vegetable crops 2) Students will get more detail information about the sub-species and varieties of several vegetable groups in horticultural production 3) The students will gain information about the control of pests, diseases and weeds of vegetable crops 4) Students will learn the environmental stress factors, which affect vegetable production and will gain information about managing these factors 5) To improve the understandings of the students about the phytochemical composition and health benefits of vegetable crops 6) The students will be able to compare the different production methods and select the most suitable method for site-specific conditions								
Textbooks and/or References:	1	Salunkhe, D. K., & Kadam, S. S. (1998). Handbook of vegetable science and technology: production, composition, storage, and processing. CRC press.							
	2	Welbaum, G. E. (2015). Vegetable production and practices. CABI.							
	3	Nonnecke, I. L. (1989). Vegetable production. Springer Science & Business Media.							
	4	Rai, N., & Yadav, D. S. (2005). Advances in vegetable production. Researchco Book Centre.							
WEEK	Date	TOPICS						Reference No - Section	
Week 1		Introduction to vegetable production						1, 2, 3, 4	
Week 2		Tomato						1, 2, 3, 4	
Week 3		Cucumber						1, 2, 3, 4	
Week 4		Melon						1, 2, 3, 4	
Week 5		Water melon						1, 2, 3, 4	
Week 6		Onion						1, 2, 3, 4	
Week 7		Pepper						1, 2, 3, 4	
Week 8		<i>Mid-term exam</i>							
Week 9		Eggplant						1, 2, 3, 4	
Week 10		lettuce						1, 2, 3, 4	
Week 11		Garlic						1, 2, 3, 4	
Week 12		Cole crops						1, 2, 3, 4	
Week 13		Couliflowers						1, 2, 3, 4	
Week 14		Leek and Asparagus						1, 2, 3, 4	
Week 15		Carrot						1, 2, 3, 4	
Week 16		<i>Final exam</i>							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1		60					
	Semester Evaluation			60					
	Midterm(s)	1		40	80				
	Quiz(zes)	0		0	0				
	Project(s)	0		0	0				
	Homework(s)	0		0	0				
	Laboratory	0		0	0				
	Attendance	0		0	0				
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English			
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours				
Theoretical lecture hours (TLH)	12	36	Homework	1	4				
TLH Self Study	12	72	Mid-term Exam (ME)	1	2				
Quiz (Q)	0	0	ME preparation self study	1	6				
Q preparation self study	0	0	Seminar	0	0				
Laboratory (L)	0	0	Presentation	0	0				
L preparation self study	0	0	Project	0	0				
Applied Hours (AH)	2	6	Final Exam (FE)	1	2				
AH preparation self study	2	12	FE preparation self study	1	10				
					TOTAL :	150			
					Recommended ECTS Credit (Total Hours / 30) :	5.00			

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



**"Department of Horticulture"
SYLLABUS
2025-2026 Fall Semester**

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
			T	A	L				
AGRI 253	Agricultural Mechanization	Elective	3	0	0	3	5	Monday 14:00-17:00	
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	3rd Semester	Frequency:	each fall term			Planned class size:	30 students		
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:	1 semester		
Course Lecturer:	Assist. Prof. Dr. Murat Helvacı				Office Hours	Monday 14:00-17:00/Tuesday 14:00-17:00/Wednesday 09:00-12:00 & 14:00-17:00/Thursday 09:00-12:00			
E-mail	mhelvacı@eul.edu.tr				Schedule:				
Phone	0 542 850 0336				Office/Room No:	AS 240			
Teaching Assistant:					Phone:				
E-mail:					Office/Room No:				
Course Objectives:	This course deals with design and use of agricultural machinery in relation to power engines, power transmission including hydraulics. Farm machinery topics covers the types and use of various tillage and harvesting equipment, their calibrations and service. Design and use of agricultural electrification as electrical circuits, motors, control systems for product processing and conservation for conditioning agricultural structures and for processing of farm products will be included as well.								
Learning Outcomes:	1) To improve the students' understanding about farm machinery topics, including various tillage and harvesting equipment, their calibrations and service. The digital farming techniques of these subjects will also be learnt. 2) To teach the importance of nozzles in pesticide applications and nozzle selection. 3) To teach the advantages and disadvantages of several agricultural equipment to the students 4) To improve the understandings of students about seeding, trans planters, fertilizer technology and etc.								
Programme Outcome Relations	PO1: 3 PO2: 1 PO3: 2 PO4: 1 PO5: 5 PO6: 1	PO7: 4 PO8: 2 PO9: 1 PO10: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.						
Textbooks and/or References:	1 Kormawa, P., Mrema, G., Mhlanga, N., Fynn, M. K., Kienze, J., & Mpagalile, J. (2019). Sustainable agricultural mechanization: a framework for Africa. Sustainable agricultural mechanization: a framework for Africa. 2 Diao, X., Silver, J., & Takeshima, H. (2016). Agricultural mechanization and agricultural transformation (Vol. 1527). Intl Food Policy Res Inst. 3 Smith, H. P. (2020). Farm Machinery and Equipment. United Kingdom: Read Books Limited. 4 Agricultural Automation: Principles, Systems and Applications. (2022). United States: LARSEN & KELLER EDUCATION.								
WEEK	Date	TOPICS					Reference No - Section		
Week 1	22.09.2025	Introduction					1, 2, 3		
Week 2	29.09.2025	History of Farm Technology					1, 2, 3, 4		
Week 3	06.10.2025	Tractors- I					1, 2, 3		
Week 4	13.10.2025	Tractors- II (Diesel Engines)					1, 2, 3		
Week 5	20.10.2025	Tractors- III (Transmission)					1, 2, 3		
Week 6	27.10.2025	Compaction and Tillage					1, 2, 3, 4-1, 2, 3		
Week 7	03.11.2025	Seeding Machines					1,2,3		
Week 8	08-16 Nov. 2025	Midterm(s)							
Week 9	17.11.2025	Transplanters					1,2,3		
Week 10	24.11.2025	Fertilizer Distribution					1,2,3		
Week 11	01.12.2025	Irrigation technology					1, 2, 3		
Week 12	08.12.2025	Pesticide application					1, 2, 3, 4		
Week 13	15.12.2025	Plant Protection Machines					1, 2, 3, 4		
Week 14	22.12.2025	Harvesting					1, 2-1		
Week 15	29.12.2025	Machinery Management					1, 2, 3		
Week 16	03-11 Jan. 2026	Final exam							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1	03-11 January 2026	50					
	Semester Evaluation			40					
	Midterm(s)	1	08-16 November 2025	40	80				
	Quiz(ze)s								
	Project(s)								
	Homework(s)	1		10	20				
Laboratory									
Attendance									
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English			
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours				
Theoretical lecture hours (TLH)	13	39	Homework	1	4				
TLH Self Study	13	78	Mid-term Exam (ME)	1	2				
Quiz (Q)	0	0	ME preparation self study	1	8				
Q preparation self study	0	0	Seminar	0	0				
Laboratory (L)	0	0	Presentation	0	0				
L preparation self study	0	0	Project	0	0				
Applied Hours (AH)	1	3	Final Exam (FE)	1	2				
AH preparation self study	1	6	FE preparation self study	1	8				
TOTAL :					150				
Recommended ECTS Credit (Total Hours / 30) :					5.00				

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
AGRI 255	Basics of Fruit Production	Compulsory	3	0	0	3	5	Wednesday 09:00-11:50
Prerequisite:	n/a		Prerequisite to:			n/a		
Semester:	3rd Semester	Frequency:	each fall term			Planned class size:		30 students
Teaching methods:	Lectures, assignment and discussions					Duration:		1 semester
Course Lecturer:	Prof. Dr. Mehmet Atilla Aşkın					Office Hours Schedule: Tuesday 13:00-14:00		
E-mail	maskin@eul.edu.tr					Office/Room No: AS 217		
Phone	+90 392 660 2000-2677 / 0533 8751224					Phone:		
Teaching Assistant:						Office/Room No:		
E-mail:								
Course Objectives:	This course gives the students information about basic aspects of fruit production, with respect to fruit classification, flowers and pollination, sexual and asexual production, orchard design and management, pruning, thinning operations, production of various fruit trees including citrus, olives; pomaceous fruits (apples, pears, stone fruits, apricots, peaches, plums) and berries (raspberries, blackberries).							
Learning Outcomes:	1. Learn the basic principles of classification of the fruit 2. Learn the basic principles of flowering biology and understand the pollination and fertilization, 3. Learn the basic principles of dormancy of buds, temperature, light and other environmental condition, 4. How we get more fruit from fruit threes and vegetables							
Programme Outcome Relations	PO1: 5 PO2: 5 PO3: 3 PO4:4 PO5: 5 PO6: 4		PO7: 5 PO8: 4 PO9: 3 PO10: 5			(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.		
Textbooks and/or References:	1 Introduction to Fruit Crops (Crop Science) by Mark Rieger, 2006. 2 Temperate and Subtropical Fruit Production by David I. Jackson and Norman Looney, 1999. 3 Genel Meyvecilik. ISBA: 978-605-133-253-6. Nobel press. 2023 4 Temperate zone pomology. Timber Press. ISBN-13 978-1604690705. 2009 5							
WEEK	Date	TOPICS						Reference No - Section
Week 1	01.10.2025	Flower						1,2,3,4
Week 2	08.10.2025	Pollination						1,2,3,4
Week 3	15.10.2025	Fertilization						1,2,3,4
Week 4	22.10.2025	Classification of Fruits						1,2,3,4
Week 5	29.10.2025	republic day						1,2,3,4
Week 6	05.11.2025	Aggregate Fruits						1,2,3,4
Week 7	08-16.11.2025	Mid-term exam						
Week 8	19.11.2025	Multiple Fruits						1,2,3,4
Week 9	26.11.2025	Sexual and Asexual Reproduction of Fruits						1,2,3,4
Week 10	03.12.2025	Floral induction and initiation						1,2,3,4
Week 11	10.12.2025	Orchard Design and Management						1,2,3,4
Week 12	17.12.2025	Winter Frost incury						1,2,3,4
Week 13	31.12.2025	Pathenocarpy, Fruit development & Tissue Culture						1,2,3,4
Week 14	03-11.01.2026	Final Exam						
Week 15								
Week 16								
Evaluation Tools	Evaluation Tool		Quantity	Date		Weight in Total (%)	Weight in Semester Evaluation (%)	
	Final Exam		1			50	50	
	Semester Evaluation					50		
	Midterm(s)		1			30	30	
	Quiz(zes)		0			0	0	
	Project(s)		0			0	0	
	Homework(s)		1			20	20	
	Laboratory		0			0	0	
Attendance		0			0	0		
*** Lifelong Learning Programme (LLP) ***				Language of Instruction:			English	
Evaluation Tool		Quantity	Student Workload Hours		Evaluation Tool		Quantity	Student Workload Hours
Theoretical lecture hours (TLH)		14	42		Homework		1	4
TLH Self Study		14	84		Mid-term Exam (ME)		1	2
Quiz (Q)		0	0		ME preparation self study		1	6
Q.preparation self study		0	0		Seminar		0	0
Laboratory (L)		0	0		Presentation		0	0
L preparation self study		0	0		Project		0	0
Applied Hours (AH)		0	0		Final Exam (FE)		1	2
AH preparation self study		0	0		FE preparation self study		1	10
TOTAL :								150
Recommended ECTS Credit (Total Hours / 30) :								5.00

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
AGRI 302	Field Practice II	Compulsory	2	2	0	3	6	Thursday 09:00-12:00
Prerequisite:	n/a	Prerequisite to:	n/a					
Semester:	5th Semester	Frequency:	each fall term			Planned class size:	30 students	
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:	1 semester	
Course Lecturer:	Assist. Prof. Dr. Serhat Usanmaz					Office Hours Schedule:		
E-mail	susanmaz@eul.edu.tr					Office/Room No:	AUÇ	
Phone	0542 880 6373					Phone:		
Teaching Assistant:						Office/Room No:		
E-mail:								
Course Objectives:	This course is the spring term continuation of Field Practice1 activities in accordance with the horticultural production. calendar. All areas of horticulture, e.g. vegetable production in field and greenhouse; orchard and greenhouse management, and nursery production will be presented and the student will be involved in field works. Emphasis will be placed on equipment used in production and its maintenance.							
Learning Outcomes:	1) To provide students with a technical information on horticultural techniques and the basic understanding of fruit and vegetable production and orchards management (including soil selection, irrigation, pruning and etc.). Additionally, it allows students to understand the principles of crop protection from weeds, pests and diseases in horticultural crops.							
Textbooks and/or References:	1	Chadha, K. L. (2001). Handbook of horticulture. Handbook of horticulture.						
	2	Bisbis, M. B., Gruda, N. S., & Blanke, M. M. (2019). Securing horticulture in a changing climate—A mini review. Horticulturae, 5(3), 56.						
	3	Acquaah, G. (2008). Horticulture: principles and practices (No. Ed. 4). Pearson education, Inc.						
WEEK	Date	TOPICS						Reference No - Section
Week 1		Introduction to horticultural crops: site selection and planting						1, 2, 3
Week 2		Importance of soil and climate in horticulture						1, 2, 3
Week 3		Soil preparation and orchard management						1, 2, 3
Week 4		Soil preparation and orchard management (continue)						1, 2, 3
Week 5		Irrigation of the horticultural crops						1, 2, 3
Week 6		Soil management and fertilization						1, 2, 3
Week 7		Pruning and thinning of fruit trees						1, 2, 3
Week 8		Mid-term exam						
Week 9		Pruning and thinning of fruit trees (continue)						1, 2, 3
Week 10		Grafting of fruits and vegetables						1, 2, 3
Week 11		Grafting of fruits and vegetables (continue)						1, 2, 3
Week 12		Soilles culture and greenhouse						1, 2, 3
Week 13		Soilles culture and greenhouse (continue)						1, 2, 3
Week 14		Pest and Disease Management						1, 2, 3
Week 15		Weed management and miscellaneous						1, 2, 3
Week 16		Final exam						
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)			
	Final Exam	1		50				
	Semester Evaluation			50				
	Midterm(s)	1		40	80			
	Quiz(zes)	0		0	0			
	Project(s)	0		0	0			
	Homework(s)	1		10	20			
	Laboratory	0		0	0			
Attendance	0		0	0				
*** Lifelong Learning Programme (LLP) ***								
				Language of Instruction:		English		
Evaluation Tool	Quantity	Student Workload Hours		Evaluation Tool	Quantity	Student Workload Hours		
Theoretical lecture hours (TLH)	14	28		Homework	1	4		
TLH Self Study	14	56		Mid-term Exam (ME)	1	2		
Quiz (Q)	0	0		ME preparation self study	1	8		
Q preparation self study	0	0		Seminar	0	0		
Laboratory (L)	0	0		Presentation	0	0		
L preparation self study	0	0		Project	0	0		
Applied Hours (AH)	14	28		Final Exam (FE)	1	2		
AH preparation self study	14	42		FE preparation self study	1	10		
TOTAL :							180	
Recommended ECTS Credit (Total Hours / 30) :							6.00	

EUROPEAN UNIVERSITY OF LEFKE - "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name		Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
				T	A	L				
AGRI 303	Field Practice I		Compulsory	2	2	0	3	6	Thursday 09:00-12:00	
Prerequisite:	n/a		Prerequisite to:			n/a				
Semester:	5th Semester	Frequency:	each fall term			Planned class size:		30 students		
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:		1 semester		
Course Lecturer:	Assist. Prof. Dr. Serhat Usanmaz					Office Hours Schedule:				
E-mail	susanmaz@eul.edu.tr					Office/Room No:		Güzelyurt Research and Application Farm		
Phone	+90 392 660 2000					Phone:				
Teaching Assistant:						Office/Room No:				
E-mail:						Office/Room No:				
Course Objectives:	Students have access to facilities in the Research and Application Farm of EUL to apply the theoretical knowledge they acquire in the classes. There are open field plots and greenhouse facilities for vegetable growing, and orchards of fruit crops such as citrus varieties, collection plantations olive and Pomegranate varieties and plots of various tropical and subtropical fruit trees as well as a collection vineyard. Nurseries are active year round production of citrus and olive saplings. Students take part in the various seasonal horticultural activities to strengthen their theoretical knowledge by performing the various task themselves.									
Learning Outcomes:	1) Improving the students' understanding about the importance of horticultural crops, selection of horticultural crops and reproduction of horticultural crops 2) It is aimed to teach the soil characteristics and its relationship between crop selection 3) Students will be able to understand the impacts of different environmental stress conditions on the crop yield and quality and how to manage these conditions 4) The students will also learn the practical applications of pruning, training, grafting together with practical information about pests, diseases, weeds and greenhouse crop management									
Programme Outcome Relations	PO1: 3 PO2: 1 PO3: 3 PO4: 4 PO5: 5 PO6: 2	PO7: 3 PO8: 1 PO9: 4 PO10: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.							
Textbooks and/or References:	1 Chadha, K. L. (2001). Handbook of horticulture. Handbook of horticulture. 2 Chesworth, W. (Ed.). (2007). Encyclopedia of soil science. Springer Science & Business Media. 3 Bisbis, M. B., Gruda, N. S., & Blanke, M. M. (2019). Securing horticulture in a changing climate—A mini review. Horticulturae, 5(3), 56. 4 Fereres, E., Goldhamer, D. A., & Parsons, L. R. (2003). Irrigation water management of horticultural crops. HortScience, 38(5), 1036-1042. 5 Ferree, D. C., & Schupp, J. R. (2003). Pruning and training physiology. Apples: botany, production and uses, 319-344. 6 Rivero, R. M., Ruiz, J. M., & Romero, L. (2003). Role of grafting in horticultural plants under stress conditions. Journal of Food Agriculture and Environment, 1, 70-74. 7 Campiotti, C. A., Viola, C., Alonzo, G., Bibbiani, C., Giagnacovo, G., Scocianti, M., & Tumminelli, G. (2012). SUSTAINABLE GREENHOUSE HORTICULTURE IN EUROPE. Journal of sustainable energy, 3(3). 8 Acquaah, G. (2008). Horticulture: principles and practices (No. Ed. 4). Pearson education, Inc. 9 Kahramanoglu, I. (Ed.). (2017). Postharvest Handling. BoD—Books on Demand.									
WEEK	Date	TOPICS						Reference No - Section		
Week 1	25.09.2025	Introduction to horticultural crops						1		
Week 2	02.10.2025	Importance of soil in horticulture						1		
Week 3	09.10.2025	Soil Selection in horticultural crops						2		
Week 4	16.10.2025	Soil tillage						2		
Week 5	23.10.2025	Importance of climate in crop selection						3		
Week 6	30.10.2025	Irrigation of the horticultural crops						4		
Week 7	06.11.2025	Pruning and thinning of fruit trees						5		
Week 8	08-16 Nov. 2025	Mid-term exam								
Week 9	20.11.2025	Grafting of fruits and vegetables						6		
Week 10	27.11.2025	Greenhouse crop management						7		
Week 11	04.12.2025	Soilless production						7		
Week 12	11.12.2025	Pests of horticultural crops						1, 8		
Week 13	18.12.2025	Diseases of horticultural crops-Weed Management						1, 8		
Week 14	25.12.2025	Postharvest handling of horticultural crops						9		
Week 15	01.01.2026	Public Holiday								
Week 16	03-11 Jan. 2026	Final exam								
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)					
	Final Exam	1	03-11 January 2026	60						
	Semester Evaluation			60	60					
	Midterm(s)	0			0					
	Quiz(zes)	0			0					
	Project(s)	0			0					
	Homework(s)	1			0					
	Laboratory	0			0					
Attendance	0			40						
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English				
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours					
Theoretical lecture hours (TLH)	14	28	Homework	1	4					
TLH Self Study	14	56	Mid-term Exam (ME)	0	0					
Quiz (Q)	0	0	ME preparation self study	0	0					
Q preparation self study	0	0	Seminar	0	0					
Laboratory (L)	0	0	Presentation	0	0					
L preparation self study	0	0	Project	0	0					
Applied Hours (AH)	14	28	Final Exam (FE)	1	4					
AH preparation self study	14	48	FE preparation self study	1	12					
TOTAL :					180					
Recommended ECTS Credit (Total Hours / 30) :					6.00					

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
AGRI 306	Temperate & Subtropical Fruits	Compulsory	T	A	L	3	5	Wednesday 09:00 -11:50 AM
Prerequisite:	n/a		Prerequisite to:			n/a		
Semester:	8th Semester	Frequency:	each spring term			Planned class size:	30 students	
Teaching methods:	Lectures, assignment and discussions					Duration:	1 semester	
Course Lecturer:	Prof. Dr. Mehmet Atilla Aşkin					Office Hours Schedule:	Monday 14:00 -15:30 PM	
E-mail	maskin@eul.edu.tr					Office/Room No:	Dean office	
Phone	+90 392 660 2000-2502 / 0533 8751224					Phone:		
Teaching Assistant:						Office/Room No:		
E-mail:						Office/Room No:		
Course Objectives:	Principles of fruit production, emphasizing on temperate zone and subtropical fruits are the main subject of this course. Within this course integrated management of temperate and subtropical fruit cropping systems including site selection, cultural and management practices, taxonomic classifications, physiological and environmental control of plant development will be covered. Subject matter will include orchard establishment and production methods.							
Learning Outcomes:	1. Learn basic principles of temperate fruits (Pome Fruits), 2. Learn basic principles of temperate fruits (Prunes), 3. Learn basic principles of temperate fruits (Nuts), 4. Learn basic principles of subtropic fruits (Olive, banana, avocado, mango, date), 5. Learn basic principles of subtropic fruits (kiwi, pineapple, coconut)							
Programme Outcome Relations	PO1: 5 PO2: 5 PO3: 3 PO4:4 PO5: 5 PO6: 4		PO7: 5 PO8: 4 PO9: 3 PO10: 5			(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.		
Textbooks and/or References:	1 Temperate zone pomology. M.N. Westwood, W.H Freeman and Company San Francisco 2009 2 Jackson, D., Looney, N. E., & Morley-Bunker, M. (Eds.). (2011). Temperate and subtropical fruit production. CABI. 3 Mohamed, Z., AbdLatif, I., & Abdullah, A. M. (2011). Economic importance of tropical and subtropical fruits. In Postharvest biology and technology of tropical and subtropical fruits (pp. 1-20). Woodhead Publishing. 4 5							
WEEK	Date	TOPICS					Reference No - Section	
Week 1	04.02.26	Introduction to Temperate & Subtropical Fruits					1, 2, 3	
Week 2	11.02.26	apple growing					1, 2, 3	
Week 3	18.02.26	Almond Growing					1, 2, 3	
Week 4	25.02.26	Pear Growing					1, 2, 3	
Week 5	04.03.26	Olive Growing					1, 2, 3	
Week 6	11.03.26	Peach Growing					1, 2, 3	
Week 7	18.03.26	Hazelnut Growing					1, 2, 3	
Week 8	25.03.26	Fig Growing						
Week 9	01.04.26	Almond Growing					1, 2, 3	
Week 10	08.04.26	Midterm exam					1, 2, 3	
Week 11	15.04.26	Date Growing						
Week 12	22.04.2026	Walnut and Pistachio Growing					1, 2, 3	
Week 13	29.04.26	Apricot and Cherry					1, 2, 3	
Week 14	06.06.26	Avacado and Banana Growing					1, 2, 3	
Week 15	13.05.26	Coconut and Date Growing					1, 2, 3	
	16-25.05.26	Final exam						
Evaluation Tools	Evaluation Tool	Quantity	Date		Weight in Total (%)	Weight in Semester Evaluation (%)		
	Final Exam	1			50	50		
	Semester Evaluation				50			
	Midterm(s)	1			30	30		
	Quiz(zes)	0			0	0		
	Project(s)	0			0	0		
	Homework(s)	1			20	20		
	Laboratory	0			0	0		
Attendance	0			0	0			
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English		
Evaluation Tool	Quantity	Student Workload Hours		Evaluation Tool	Quantity	Student Workload Hours		
Theoretical lecture hours (TLH)	14	42		Homework	1	4		
TLH Self Study	14	84		Mid-term Exam (ME)	1	2		
Quiz (Q)	0	0		ME preparation self study	1	6		
Q preparation self study	0	0		Seminar	0	0		
Laboratory (L)	0	0		Presentation	0	0		
L preparation self study	0	0		Project	0	0		
Applied Hours (AH)	0	0		Final Exam (FE)	1	2		
AH preparation self study	0	0		FE preparation self study	1	10		
TOTAL :						150		
Recommended ECTS Credit (Total Hours / 30) :						5.00		

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
			T	A	L				
AGRI 308	Pests of Horticultural Plants	Compulsory	2	2	0	3	5	Monday 09:00-12:00	
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	6th Semester	Frequency:	each spring term			Planned class size:	30 students		
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:	1 semester		
Course Lecturer:	Assist. Prof. Dr. Murat Helvacı					Office Hours Schedule:	Monday 14:00-17:00, Tuesday 09:00-12:00, Wednesday 09:00-11:00;15:00-17:00, Friday 09:00-12:00;14:00-17:00		
E-mail	mhelvacı@eul.edu.tr					Office/Room No:	AS 240		
Phone	0 542 850 0336					Phone:			
Teaching Assistant:						Office/Room No:			
E-mail:						Office/Room No:			
Course Objectives:	To understand insect pests, learning citrus, strawberry, peach, grape, tomato, olive pests and learning their basic control tactics in agricultural production.								
Learning Outcomes:	1- Learn key concepts and background knowledge that will help you make enriched decisions in your career as a horticulturalist, entomologist, or other field 2- Recognize beneficial and harmful arthropods associated with horticultural plantings and understand the basics of pest biology (life cycles, behavior, damage, resources need to survive) 3- Understand the principles of Integrated Pest Management and how they relate to horticultural crop settings. 4- Characterize different types of plant injury and associate it with the arthropod pest that is responsible 5- Identify and employ all facets of modern pest management programs, including sampling, interpretation of available thresholds, and multiple management strategies								
Programme Outcome Relations	PO1: 1 PO2: 1 PO3: 4 PO4: 5 PO5: 3 PO6: 3	PO7: 2 PO8: 1 PO9: 1 PO10: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.						
Textbooks and/or References:	1 Miall, L. C. (2015). Injurious and Useful Insects: An Introduction to the Study of Economic Entomology. United States: FB&C Limited, 267p. 2 Patel, L. C. (2023). Applied Entomology: Insect Ecology and Integrated Pest Management (1st Edition). CRC Press, 331p. 3 Omkar, (2019). Pests and Their Management. Singapore: Springer Nature Singapore, 1078p. 4 Flint, M. L. (2018). Pests of the Garden and Small Farm: A Grower's Guide to Using Less Pesticide. United States: University of California, Agriculture and Natural Resources.								
WEEK	Date	TOPICS					Reference No - Section		
Week 1	02.02.2026	Introduction to Pests					3,1/3,2/3,3/3,4/3,5/3,6		
Week 2	09.02.2026	Olive Pests					1,26/2,8/2,10/3,8/4,3		
Week 3	16.02.2026	Mediterranean fruit fly					1,27/2,8/2,10/3,8/4,3		
Week 4	23.02.2026	Green Peach Aphid					1,31/2,8/2,10/3,8/4,3		
Week 5	02.03.2026	Grapevine Pests					2,8/2,10/3,8/4,3		
Week 6	09.03.2026	Cabbage Pests					2,8/2,10/3,8/4,3		
Week 7	16.03.2026	Thrips					2,8/2,10/3,8/4,3		
Week 8	23.03.2026	Whiteflies					2,8/2,10/3,8/4,3		
Week 9	30.03.2026	Tomato leafminer					2,7/2,8/2,10/2,15/3,8/4,3		
Week 10	04-12 April 2026	Midterm(s)							
Week 11	13.04.2026	Citrus mealybug					2,6/1,15/3,8/4,3		
Week 12	20.04.2026	Citrus leafminer					2,8/2,10/3,8/4,3		
Week 13	27.04.2026	Citrus rust mite and red mite					2,3/2,14/3,7/3,8/4,3		
Week 14	04.05.2026	Spotted Wing Drosophila					2,6/2,12/3,8/4,3		
Week 15	11.05.2026	Californian Red scale					1,32/2,8/2,10/3,8/4,3		
Week 16	16-25 May 2026	Final Exam							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1	04-12 April 2026	50	100				
	Semester Evaluation			50					
	Midterm(s)	1	16-25 May 2026	40	80				
	Quiz(zes)								
	Project(s)								
	Homework(s)	1		10	20				
	Laboratory								
Attendance									
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:		English				
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours				
Theoretical lecture hours (TLH)	14	28	Homework	1	4				
TLH Self Study	14	44	Mid-term Exam (ME)	1	2				
Quiz (Q)	0	0	ME preparation self study	1	6				
Q preparation self study	0	0	Seminar	0	0				
Laboratory (L)	0	0	Presentation	0	0				
L preparation self study	0	0	Project	0	0				
Applied Hours (AH)	14	28	Final Exam (FE)	1	2				
AH preparation self study	14	28	FE preparation self study	1	8				
TOTAL :					150				
Recommended ECTS Credit (Total Hours / 30) :					5.00				

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
			T	A	L				
AGRI 313	Diseases of Horticultural Plants	Compulsory	2	2	0	3	5	Monday / 14.00-16.50	
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	5th Semester	Frequency:	each fall term			Planned class size:			
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:		1 semester	
Course Lecturer:	Asst. Prof. Dr. Turgut Alas					Office Hours Schedule:		Tuesday / 10.00-12.00	
E-mail	talas@eul.edu.tr					Office/Room No:		AS240	
Phone	+90 392 660 2000-2526					Phone:			
Teaching Assistant:						Office/Room No:			
E-mail:						Office/Room No:			
Course Objectives:	Etiology, symptoms, mode of spread, survival, epidemiology and management of diseases of horticulture crops. Study of symptoms and host – parasite relationship of important diseases of fruits, vegetables, spices and condiments, plantation and horticulture crops.								
Learning Outcomes:	Identify factors, symptoms, and cycles of plant diseases. Define the role of suppression options as explained by the disease triangle. Identify abiotic and biotic factors, plant pathogens. Describe biological attributes of various types of plant diseases. Identify plant selection and resistance as a plant disease control option.								
Textbooks and/or References:	1	Arjunan, G. Karthikeyan, G. Dinakaran, D. Raguchander, T.1999. Diseases of Horticultural Crops, AE Publications, Coimbatore							
	2	Snowden, A.L. 1990. A Colour atlas of Post harvest diseases and disorders. Vol I & II Wolfe Scientific Limited.							
	3	Singh, R.S.1999. Diseases of Vegetable Crops. Oxford & IBH Publications, New Delhi. 247.							
	4	Pathak, P.N. 2001. Diseases of Fruit Crops. Oxford & IBH Publications, New Delhi. 350.							
	5								
WEEK	Date	TOPICS						Reference No - Section	
Week 1		Olive Leaf Scorch, Peach Leaf Curl, Solanaceae Diseases						1	
Week 2		Stone Fruit Diseases, Crucifers Diseases						1	
Week 3		Anthracnose, Grey Mould, Allium Diseases, Citrus Greening						1	
Week 4		Olive Peacock Spot, Fungal Diseases on Mango, Citrus Diseases						2	
Week 5		Olive Diseases, Tomato Yellow Leaf Curl Virus						2	
Week 6		Grape Diseases, Apple Diseases, Bacterial Diseases on Plants						2	
Week 7		Grape Diseases, Apple Diseases, Bacterial Diseases on Plants						2	
Week 8		Midterm Exam							
Week 9		Interactions Between Bacteria and Nematodes						3	
Week 10		Physiological Diseases on Plants						3	
Week 11		Nutrient Deficiency and Toxicity Symptoms on Citrus Plants						3	
Week 12		Gel Electrophoresis						3	
Week 13		PCR Techniques to Detect Pathogens						4	
Week 14		Disease Observation Methods, Disease Management Methods						4	
Week 15		Final exam							
Week 16		Final exam							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1		50					
	Semester Evaluation				50				
	Midterm(s)	1		40	80				
	Quiz(zes)	0		0	0				
	Project(s)	0		0	0				
	Homework(s)	1		10	20				
	Laboratory	0		0	0				
Attendance	0		0	0					
*** Lifelong Learning Programme (LLP) ***									
				Language of Instruction:		English			
Evaluation Tool	Quantity	Student Workload Hours		Evaluation Tool	Quantity	Student Workload Hours			
Theoretical lecture hours (TLH)	14	28		Homework	1	4			
TLH Self Study	14	42		Mid-term Exam (ME)	1	2			
Quiz (Q)	0	0		ME preparation self study	1	6			
Q preparation self study	0	0		Seminar	0	0			
Laboratory (L)	0	0		Presentation	0	0			
L preparation self study	0	0		Project	0	0			
Applied Hours (AH)	14	28		Final Exam (FE)	1	2			
AH preparation self study	14	28		FE preparation self study	1	10			
TOTAL :							150		
Recommended ECTS Credit (Total Hours / 30) :							5.00		

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



**"Department of Horticulture"
SYLLABUS
2025-2026 Spring Semester**

Course Code	Course Name		Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
AGRI314	Plant Nutrition		Compulsory	T	A	L	3	5	Monday 14:00-17:50, AS217
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	6th Semester	Frequency:	each spring term			Planned class size:		30 students	
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:		1 semester	
Course Lecturer:	Assoc. Prof. Dr. İbrahim Kahramanoğlu					Office Hours Schedule:		Monday 10:00-11:50, Wednesday 10:00-11:50	
E-mail	ikahramanoglu@eul.edu.tr					Office/Room No:		AS 238 & Institute 203	
Phone	+90 392 660 2000 - 2845					Phone:			
Teaching Assistant:						Office/Room No:			
E-mail:						Office/Room No:			
Course Objectives:	Basic terms and principles of mineral nutrition of agricultural plants regarding plant yield determining factors, soil productivity- fertility, movement and root absorption of essential plant nutrient elements, function of these elements in plants, their deficiency symptoms, assessment of deficiencies by plant tests and their correction by fertilization, introduction to fertigation practices will be discussed in this course. <i>The student taking this course is expected to have self confidence in monitoring and interpreting plant performance, and in taking corrective measures of nutritional disorders.</i>								
Learning Outcomes:	The expected outcomes of this course are: 1- improve the students' understanding of the basic principles of plant nutrition and introduce the essential plant nutrients to the students 2- improve the understanding of the students about relationships among plant nutrients and soil matrix (including plants) and learn the nutrient uptake mechanism of the plants 3- learn and discuss the roles of macro and micro nutrients in crops' growth and development and learn the yield & nutrient deficiency symptoms 4- improve the knowledge of students about the types of nutrients, fertilizers and calculation of the fertilizer needs of the crops								
Programme Outcome Relations	PO1: 4 PO2: 2 PO3: 4 PO4: 1 PO5: 5	PO6: 2 PO7: 1 PO8: 3 PO9: 3 PO10: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.						
Textbooks and/or References:	1	Havlin, J.L., Beaton, J.D., Tisdale, S.L. and Nelson, W.L. (2005) Soil Fertility and Fertilizers: An Introduction to Nutrient Management. 7th Edition, Pearson Educational, Inc., Upper Saddle River, New Jersey							
	2	Anag, D., & Martin-Prével, P. (Eds.). (1999). Improved crop quality by nutrient management (Vol. 86). Springer Science & Business Media.							
	3	Barker, A. V., & Pilbeam, D. J. /2007). Handbook of plant nutrition. CRC, Hoboken.							
	4	Wiedenhoeft, A. C. (2006). The Green World: Plant nutrition. Infobase Publishing.							
	5								
WEEK	Date	TOPICS						Reference No - Section	
Week 1	02/02/2026	Introduction to Plant Nutrition						1, 2	
Week 2	09/02/2026	Essential plant nutrients and fertilizers						1, 2	
Week 3	16/02/2026	Essential plant nutrients and fertilizers (continue)						1, 2	
Week 4	23/02/2026	Roles of roots and nutrient uptake						3	
Week 5	02/03/2026	Foliar nutrient applications						3	
Week 6	09/03/2026	Importance of fertilizers in natural cycles						3, 4	
Week 7	16/03/2026	Inorganic and organic fertilizers						1, 4	
Week 8	23/03/2026	Compose and Liquid fertilizers						1, 4	
Week 9	30/03/2026	Timing for fertilization						1, 3	
Week 10	04-12.04.2026	Mid-term exam							
Week 11	13/04/2026	Nitrogen, Phosphorus and Potassium						1, 3	
Week 12	20/04/2026	Calcium, Magnesium and Sulphur						1, 3	
Week 13	27/04/2026	Iron, Zinc and Mangan						1, 3	
Week 14	04/05/2026	Cuppoer, Boron and Molibdenium						1, 3	
Week 15	11/05/2026	Fertigation Methods						1, 3	
Week 16	16-25.05.2026	Final exam							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1	16-25.05.2026	50					
	Semester Evaluation			50					
	Midterm(s)	1	04-12.04.2026	40	80				
	Quiz(zes)	0		0	0				
	Project(s)	0		0	0				
	Homework(s)	1		10	20				
	Laboratory	0		0	0				
Attendance	0		0	0					
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English			
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours				
Theoretical lecture hours (TLH)	14	28	Homework	1	4				
TLH Self Study	14	56	Mid-term Exam (ME)	1	2				
Quiz (Q)	0	0	ME preparation self study	1	6				
Q preparation self study	0	0	Seminar	0	0				
Laboratory (L)	0	0	Presentation	0	0				
L preparation self study	0	0	Project	0	0				
Applied Hours (AH)	14	28	Final Exam (FE)	1	2				
AH preparation self study	14	14	FE preparation self study	1	10				
TOTAL :					150				
Recommended ECTS Credit (Total Hours / 30) :					5.00				

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



**"Department of Horticulture"
SYLLABUS
2025-2026 Fall Semester**

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
AGRI 315	Horticultural Techniques	Compulsory	T	A	L	3	5	Thursday 14:00-16:50	
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	5th Semester	Frequency:	each fall term			Planned class size:	30 students		
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:	1 semester		
Course Lecturer:	Prof. Dr. Mehmet Atilla Aşkin					Office Hours Schedule:	Thursday 09:00-11:00		
E-mail	maskin@eul.edu.tr					Office/Room No:	AS 217		
Phone	+90 392 660 2000-2502 / 0533 8751224					Phone:			
Teaching Assistant:						Office/Room No:			
E-mail:						Office/Room No:			
Course Objectives:	The objectives of this course are to give the students the technical information about plant propagation methods of various fruit and vegetable crops, pests and diseases management, orchard design, introduction to greenhouse construction and soilless culture methods.								
Learning Outcomes:	1. Learn basic principles of plant physiology and morphology to the reproduction of plants. 2. Learn plant propagation method for specific species. 3. Learn in vitro propagation techniques.								
Programme Outcome Relations	PO1: 5 PO2: 5 PO3: 3 PO4:4 PO5: 5 PO6: 4	PO7: 5 PO8: 4 PO9: 3 PO10: 5	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.						
Textbooks and/or References:	1 American Horticultural Society Plant Propagation: The Fully illustrated Plant by Plant Manual of Practical Techniques by Alan Toogood, 1999. 2 Propagation Techniques by Geoff Hodge and Rosemary Ward, 2012. 3 Soilless Culture: Theory and Practice by Michael Raviv and J. Heinrich Lieth, 2007. 4 Introduction to Fruit Crops (Crop Science) by Mark Rieger, 2006. 5 Genel Meyvecilik. ISBA: 978-605-133-253-6. Nobel press. 2023								
WEEK	Date	TOPICS					Reference No - Section		
Week 1	02.10.2025	what is plant propagation, definition of horticulture					1.2.4.5		
Week 2	09.10.2025	sexual and asexual reproduction of plants					1.2.4.5		
Week 3	16.0.2025	propagation by seeds					1.2.3.4		
Week 4	23.10.2025	vegetative propagation techniques : stock division, sucker division,					1.2.4.5		
Week 5	30.10.2025	vegetative propagation techniques : layering					1.2.5		
Week 6	06.11.2025	propagation by cuttings,					1.2.5		
Week 7	08-16.11.2025	Mid-term exam							
Week 8	20.11.2025	Budding and grafting					1.2.5		
Week 9	27.11.2025	graft incompatibility					1.2.5		
Week 10	04.12.2025	invitro propagation					1.2.3.4.5		
Week 11	11.12.2025	Pruning and training					1.2.3.4.5		
Week 12	18.12.2025	propagation structures and containers					1.2.3.4.5		
Week 13	25.12.2025	propagation soil and substrates					1.2.3.4		
Week 15	03-11.01.2026	Final exam					1.2.3.4.5		
Week 16									
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1		50	50				
	Semester Evaluation			50					
	Midterm(s)	1		50	50				
	Quiz(zes)	0		0	0				
	Project(s)	0		0	0				
	Homework(s)	0		0	0				
	Laboratory	0		0	0				
Attendance	0		0	0					
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English			
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours				
Theoretical lecture hours (TLH)	12	36	Homework	0	0				
TLH Self Study	12	72	Mid-term Exam (ME)	1	2				
Quiz (Q)	0	0	ME preparation self study	1	10				
Q preparation self study	0	0	Seminar	0	0				
Laboratory (L)	0	0	Presentation	0	0				
L preparation self study	0	0	Project	0	0				
Applied Hours (AH)	2	6	Final Exam (FE)	1	2				
AH preparation self study	2	12	FE preparation self study	1	10				
					TOTAL :	150			
					Recommended ECTS Credit (Total Hours / 30) :	5.00			

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



**"Department of Horticulture"
SYLLABUS
2025-2026 Fall Semester**

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
AGRI 351	Irrigation Techniques	Compulsory	2	2	0	3	5	Tuesday, 09.00-12.50, AS217
Prerequisite:	n/a		Prerequisite to:			n/a		
Semester:	5th Semester	Frequency:	each fall term			Planned class size:	30 students	
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:	1 semester	
Course Lecturer:	Assoc. Prof. Dr. İbrahim Kahramanoğlu					Office Hours Schedule:	Monday 10:00-12:00; Wednesday 10:00-12:00	
E-mail	ikahramanoglu@eul.edu.tr					Office/Room No:	Institute office	
Phone	+90 392 660 2000					Phone:		
Teaching Assistant:						Office/Room No:		
E-mail:						Office/Room No:		
Course Objectives:	Main objectives of this course are to give the basic principles of irrigation, regarding climate, soil and plant factors. Determination of seasonal and total water requirements of various crop plants, methods of irrigation, undesirable consequences of irrigation and the need for drainage are some of the topics elaborated in this course. The expected outcomes of this course are the better understanding of crop production under irrigation, with respect to optimum crop yield, its impact on soil quality and to water economy. Development of salinity and sodicity will be discussed in some detail							
Learning Outcomes:	Learning outcomes of the lecture can be summarized as below: 1) Learning fundamentals of irrigation and soil & water relationships 2) Provide students with an understanding of the importance of irrigation and things need to be considered before designing of an irrigation system 3) Have detail information about the principles of irrigation scheduling and using of CropWAT program 4) Provide students with a knowledge of techniques used in irrigation 5) Provide students with a basic information about the automatic irrigations systems and fertigation							
Programme Outcome Relations	PO1: 3 PO2: 3 PO3: 3 PO4: 1 PO5: 5	PO6: 2 PO7: 1 PO8: 3 PO9: 3 PO10: 2						(1): Strongly disagree; (2): Disagree; (3): Neither agree nor disagree; (4): Agree; (5): Strongly agree.
Textbooks and/or References:	1 Merrett, S. (2001). Water for Agriculture: Irrigation Economics in International Perspective (1st Edition). CRC Press, 250p. 2 Venot, J.P., Kuper, M. and Zwartveen, M. (2017). Drip Irrigation for Agriculture: Untold Stories of Efficiency, Innovation and Development (1st Edition). CRC Press, 358p. 3 Azhar, A.H., Ashraff, M., Ahmed, M. (2011). Modern irrigation techniques and technologies: Efficient Utilisation of Scarce Water Resources. VDM Verlag Dr. Müller, 168p. 4 FAO (2018). http://www.fao.org/land-water/databases-and-software/cropwat/en/ 5 Obaideen, K., Yousef, B. A., AlMallahi, M. N., Tan, Y. C., Mahmoud, M., Jaber, H., & Ramadan, M. (2022). An overview of smart irrigation systems using IoT. Energy Nexus, 1001124.							
WEEK	Date	TOPICS					Reference No - Section	
Week 1	23/09/2025	History of Irrigation					1, 2, 3	
Week 2	30/09/2025	Fundamentals of Irrigation					1, 2, 3	
Week 3	07/10/2025	Soil & Water Management					1, 2, 3	
Week 4	14/10/2025	Monitoring soil moisture and plant stress					1, 2, 3	
Week 5	21/10/2025	Irrigation water management and irrigation scheduling					1, 2, 3	
Week 6	28/10/2025	Using CropWAT program for irrigation scheduling					1, 4	
Week 7	04/11/2025	Irrigation system components					1, 4	
Week 8	08 - 16/11/2025	Mid-term exam						
Week 9	18/11/2025	Flow measurement and its importance					1, 2, 3	
Week 10	25/11/2025	Irrigation types: border/furrow/basin/flood irrigation					1, 2, 3	
Week 11	02/12/2025	Irrigation types: drip irrigation / sub-surface drip irrigation					1, 2, 3	
Week 12	09/12/2025	Irrigation types: sprinkler irrigation					1, 2, 5	
Week 13	16/12/2025	Irrigation types: micro-irrigation and center pivot irrigation					1, 2, 5	
Week 14	23/12/2025	Irrigation systems, nutrient management and agricultural chemigation					1, 2, 5	
Week 15	30/12/2025	Getting the most from your irrigation system					1, 2, 5	
Week 16	03 - 11/01/2026	Final exam						
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)			
	Final Exam	1	03 - 11/01/2026	50				
	Semester Evaluation			50				
	Midterm(s)	1	08 - 16/11/2025	40	80			
	Quiz(zes)	0		0	0			
	Project(s)	0		0	0			
	Homework(s)	1		10	20			
	Laboratory	0		0	0			
Attendance	0		0	0				
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English		
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours			
Theoretical lecture hours (TLH)	14	28	Homework	1	4			
TLH Self Study	14	42	Mid-term Exam (ME)	1	2			
Quiz (Q)	0	0	ME preparation self study	1	4			
Q preparation self study	0	0	Seminar	0	0			
Laboratory (L)	0	0	Presentation	0	0			
L preparation self study	0	0	Project	0	0			
Applied Hours (AH)	14	28	Final Exam (FE)	1	2			
AH preparation self study	14	34	FE preparation self study	1	6			
TOTAL :					150			
Recommended ECTS Credit (Total Hours / 30) :					5.00			

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



**"Department of Horticulture"
SYLLABUS
2025-2026 Spring Semester**

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
			T	A	L				
AGRI 402	Agriculture and the Environment	Elective	3	0	0	3	5	Thursday 14:00-17:00	
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	8th Semester	Frequency:	each spring term			Planned class size:	30 students		
Teaching methods:	Lectures, assignment and discussions					Duration:	1 semester		
Course Lecturer:	Assist. Prof. Dr. Murat Helvacı				Office Hours Schedule:	Monday 14:00-17:00, Tuesday 09:00-12:00, Wednesday 09:00-11:00;15:00-17:00, Friday 09:00-12:00;14:00-17:00			
E-mail	mhelvacı@eul.edu.tr				Office/Room No:	AS 240			
Phone	0 542 850 0336				Phone:				
Teaching Assistant:					Office/Room No:				
E-mail:					Office/Room No:				
Course Objectives:	The purpose of the course is to let the students learn the possible destructive effects of agriculture on the environment								
Learning Outcomes:	Purpose of the course can be summarized as below: 1- To understand interactions between agricultural production and the environment 2- To examine possible environmental impact of agricultural production inputs 3- To examine techniques employing agricultural production in combating environmental pollution 4- To examine Pollution prevention techniques								
Programme Outcome Relations	PO1: 1 PO2: 1 PO3: 5 PO4: 1 PO5: 2 PO6: 4	PO7: 3 PO8: 1 PO9: 1 PO10: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.						
Textbooks and/or References:	1 Montagnini, F. (2018). Integrating Landscapes: Agroforestry for Biodiversity Conservation and Food Sovereignty. Germany: Springer International Publishing, 501p. 2 Zaikov, G. E., Weisfeld, L. I., Lisitsyn, E. M. and Bekuzarova, S. A. (2017). Heavy Metals and Other Pollutants in the Environment. Taylor & Francis. ISBN 978-1-315-36602-9 3 Khan, S. U. (2016). Pesticides in the Soil Environment. Netherlands: Elsevier Science, 248p. 4 Ahuja, M. R. and Jain, M. S. (2015). Genetic Diversity and Erosion in Plants. Springer International Publishing. ISBN 978-3-319-25635-1 5 Kumar, A., Kumar, D., Singh, J., Kumar, R. (2024).A Comprehensive Exploration of Soil, Water, and Air Pollution in Agriculture.(n.p.): BFC Publications.								
WEEK	Date	TOPICS					Reference No - Section		
Week 1	05.02.2026	Greenhouse Effect					1,16/5,9		
Week 2	12.02.2026	Negative Effects Of Intensive Farming On Living Organisms					2,3/2,4/5,1/5,2/5,10		
Week 3	19.02.2026	Water Pollution					2,3/5,15/5,19		
Week 4	26.02.2026	Soil Pollution					2,1/5,12/5,17/5,18/5,19/5,23		
Week 5	05.03.2026	Air Pollution					2,3/5,7/5,19/5,21		
Week 6	12.03.2026	Green Revolution - Global Warming					1,1/1,2 - 1,16/5,9		
Week 7	19.03.2026	Bayram Holiday							
Week 8	26.03.2026	Heavy Metal Pollution on Soils					2,2/2,3/5,22		
Week 9	02.04.2026	Acidification effects of nitrogen fertilizers/Salinization of Soils					5,1/5,4/5,10-5,2/5,5/5,10		
Week 10	04-12 April 2026	Midterm(s)							
Week 11	16.04.2026	Green Energy					1,13/5,16		
Week 12	23.04.2026	Public Holiday							
Week 13	30.04.2026	Pesticide Effects on Environment					3,5/3,6/5,10		
Week 14	07.05.2026	Genetic Erosion					3,4/3,9/3,10		
Week 15	14.05.2026	Biodiversity & Deforestation					1,7/1,15/5,8		
Week 16	16-25 May 2026	Final Exam							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1	16-25 May 2026	50	100				
	Semester Evaluation			50					
	Midterm(s)	1	04-12 April 2026	40	80				
	Quiz(zes)								
	Project(s)								
	Homework(s)	1		10	20				
	Laboratory								
Attendance									
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:		English				
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours				
Theoretical lecture hours (TLH)	14	42	Homework	0	0				
TLH Self Study	14	84	Mid-term Exam (ME)	1	2				
Quiz (Q)	0	0	ME preparation self study	1	6				
Q preparation self study	0	0	Seminar	0	0				
Laboratory (L)	0	0	Presentation	1	4				
L preparation self study	0	0	Project	0	0				
Applied Hours (AH)	0	0	Final Exam (FE)	1	2				
AH preparation self study	0	0	FE preparation self study	1	10				
TOTAL :					150				
Recommended ECTS Credit (Total Hours / 30) :					5.00				

EUROPEAN UNIVERSITY OF LEFKE - "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
AGRI 404	Viticulture	Compulsory	2	2	0	3	5	Tuesday / 14.00-17.00
Prerequisite:	n/a		Prerequisite to:			n/a		
Semester:	8th Semester	Frequency:	each spring term			Planned class size:		20
Teaching methods:	Lectures, assignment and discussions					Duration:		1 semester
Course Lecturer:	Asst. Prof. Dr. Turgut Alas					Office Hours Schedule:		re-announced each semester
E-mail	talas@eul.edu.tr					Office/Room No:		AS240
Phone	+90 392 660 2000-2576					Phone:		
Teaching Assistant:						Office/Room No:		
E-mail:						Office/Room No:		
Course Objectives:	Grape is considered as the most valuable fruit with about 75 million-tons production in 7,5 million-hectares acreage ranked in top three fruits together with banana and orange, and its fruit is mainly used for wine (56 %), table (38 %) and raisin (6%) purposes. Although its acreage and production in Europe have been decreased constantly, world production has a tendency in slight increase since 2000. The aim of this course is to give beneficial knowledge and skills to undergraduate students on modern viticulture. The major topics of the course are ampelography, morphology and physiology of the grapevine, climate and soil requirements of grapevines, grapevine improvement, grapevine propagation, vineyard establishment and leading viticultural practices.							
Learning Outcomes:	1- History of viti-viticulture 2- Nutritional values and health benefits of grapes and grape products 3- Characteristics and geographical limits of species, grape and rootstock varieties 4- Functions of vegetative and generative organs and flower type-fruit set relations 5- Factors affecting vegetative and reproductive growth cycles 6- Aspects of site and soil selection for table, wine and raisin grape productions 7- Selection of rootstock and grape varieties for given location 8- Principle and practices of asexual (clonal) propagation of grapevine 9- Planning and techniques of vineyard establishment							
Textbooks and/or References:	1	General Viticulture, Pierre Gallet, 2000, OENOPLURIMEDIA sarl, ISBN: 2-905 428-13-9. Chateau de Chaintre-71570 CHAITRE-FRANCE						
	2	From Vines to Wines, Jeff Cox, 1999, Story Books, ISBN: 1-58017-105-2, Canada						
WEEK	Date	TOPICS					Reference No - Section	
Week 1	03.02.26	Introduction						
Week 2	10.02.26	History and Origin of Vitiviniculture & Ampelography					1, 1	
Week 3	17.02.26	World's Viticulture					2, 1	
Week 4	24.02.26	Use of Vitis vinifera Varieties					2, 5/2, 6	
Week 5	03.03.26	Use of American and Asian Species & Nutritional Value and Health Benefits of Grapes					2, 5	
Week 6	10.03.26	Morphology of Grapevine,					1, 2	
Week 7	17.03.26	Climate for Grapevines, Soil and Garpevine					1, 4/2, 4/1, 5/2, 3	
Week 8	24.03.26	Climate for Grapevines, Soil and Garpevine					1, 4/2, 4/1, 5/2, 3	
Week 9	31.03.26	Asexual Reproduction in Plants (Vegetative Propagation)					1, 7/2, 9	
Week 10	07.04.26	Midterm Exam						
Week 11	14.04.26	Propagation of Grapevines					1, 7/2, 9	
Week 12	21.04.26	Vineyard Establishment					1, 8/2, 10	
Week 13	28.04.26	Grapevine Pruning					1, 9	
Week 14	05.05.26	Grapevine Growth and Fruit Development					1, 3/2, 7	
Week 15	12.05.26	Grapevine Pests and Diseases					2, 11	
Week 16		Final Exam						
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)			
	Final Exam	1	16-25 May 2026	50				
	Semester Evaluation			50				
	Midterm(s)	1	04-12 April 2026	40	80			
	Quiz(zes)	0		0	0			
	Project(s)	0		0	0			
	Homework(s)	1		10	20			
	Laboratory	0		0	0			
Attendance	0		0	0				
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English		
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours			
Theoretical lecture hours (TLH)	14	42	Homework	1	4			
TLH Self Study	14	84	Mid-term Exam (ME)	1	2			
Quiz (Q)	0	0	ME preparation self study	1	8			
Q preparation self study	0	0	Seminar	0	0			
Laboratory (L)	0	0	Presentation	0	0			
L preparation self study	0	0	Project	0	0			
Applied Hours (AH)	1	3	Final Exam (FE)	1	2			
AH preparation self study	1	6	FE preparation self study	1	8			
TOTAL :					159			
Recommended ECTS Credit (Total Hours / 30) :					5.30			

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name		Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
				T	A	L			
AGRI 408	Greenhouse Productions		Compulsory	2	2	0	3	5	Wednesday 12:00-14:00
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	8th Semester	Frequency:	each spring term			Planned class size:		30 students	
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:		1 semester	
Course Lecturer:	Assist. Prof. Dr. Serhat Usanmaz					Office Hours Schedule:			
E-mail:	susanmaz@eul.edu.tr					Office/Room No:		AUÇ	
Phone:	0542 880 6373					Phone:			
Teaching Assistant:						Office/Room No:			
E-mail:									
Course Objectives:	Principles of greenhouse operation and management for production of horticultural crops; construction and operation of greenhouse structures and systems; regulating and controlling the environment and applying cultural practices as they affect plant physiological processes and influence plant growth and development; management of a greenhouse business.								
Learning Outcomes:	1) To provide basic information about greenhouse cultivation, giving information about cultivation techniques of some vegetable species (including tomatoes, watermelon, cucumber, eggplant, melon, peppers, etc.) grown under greenhouse and teaching the encountered problems and solutions 2) To gain basic information about the soil born diseases in greenhouses and how to manage it 3) Aim at improving the understandings of the students about environmental factors of greenhouse production systems and how to manage them								
Textbooks and/or References:	1	Mastalerz, J. W. (1977). The greenhouse environment. John Wiley & Sons..							
	2	Welbaum, G. E. (2015). Vegetable production and practices. CABI.							
	3	Nonnecke, I. L. (1989). Vegetable production. Springer Science & Business Media.							
	4	Maynard, D. N., & Hochmuth, G. J. (2006). Knott's handbook for vegetable growers. John Wiley & Sons.							
WEEK	Date	TOPICS						Reference No - Section	
Week 1		Tomatoe production in Greenhouse						1, 2, 3	
Week 2		Tomatoe production in Greenhouse (continue)						1, 2, 3	
Week 3		Tomatoe production in Greenhouse (continue)						1, 2, 3	
Week 4		Watermelon production in Greenhouse						1, 2,	
Week 5		Watermelon production in Greenhouse (continue)						1, 2,	
Week 6		Watermelon production in Greenhouse (continue)						1, 2,	
Week 7		Cucumber production in Greenhouse (continue)						1, 2, 3	
Week 8		Mid-term exam							
Week 9		cucumber production in Greenhouse (continue)						1, 2, 3	
Week 10		Eggplant production in Greenhouse						1, 2, 3, 4	
Week 11		Eggplant production in Greenhouse (continue)						1, 2, 3, 4	
Week 12		Melon production in Greenhouse						1, 2, 3	
Week 13		Melon production in Greenhouse (continue)						1, 2, 3	
Week 14		Peppers production in Greenhouse						2, 3, 4	
Week 15		Peppers production in Greenhouse (continue)						2, 3, 4	
Week 16		Final exam							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1		60					
	Semester Evaluation			40					
	Midterm(s)	1		40	100				
	Quiz(zes)	0		0	0				
	Project(s)	0		0	0				
	Homework(s)	0		0	0				
	Laboratory	0		0	0				
Attendance	0		0	0					
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English			
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours	
Theoretical lecture hours (TLH)	12	36	Homework	0	0	Mid-term Exam (ME)	1	2	
TLH Self Study	12	72	ME preparation self study	1	8	Seminar	0	0	
Quiz (Q)	0	0	Presentation	0	0	Project	0	0	
Q preparation self study	0	0	Final Exam (FE)	1	2	FE preparation self study	1	12	
Laboratory (L)	0	0	TOTAL :		150				
L preparation self study	0	0	Recommended ECTS Credit (Total Hours / 30) :					5.00	
Applied Hours (AH)	2	6							
AH preparation self study	2	12							

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
			T	A	L				
AGRI 409	Greenhouse Technologies	Compulsory	2	2	0	3	5	Wednesday 12:00-14:00	
Prerequisite:	n/a	Prerequisite to:	n/a						
Semester:	7th Semester	Frequency:	each fall term			Planned class size:	30 students		
Teaching methods:						Duration:	1 semester		
Course Lecturer:	Asst. Prof. Dr. Serhat Usanmaz					Office Hours Schedule:			
E-mail	susanmaz@eul.edu.tr					Office/Room No:	Güzelyurt Research and Application Farm		
Phone	+90 392 660 2000					Phone:			
Teaching Assistant:						Office/Room No:			
E-mail:									
Course Objectives:	Design and use of enclosed structures to manipulate controlled environments, effects on growth as applied to crops, their production, will be introduced and elaborated in this course, with an emphasis on vegetable production								
Learning Outcomes:	<ol style="list-style-type: none"> 1. To improve the knowledge of the students about design and use of greenhouse structures for manipulating controlled environments, by describing the greenhouse types, main construction skeleton and covering materials. 2. To give basic information about the importance of greenhouse and greenhouse selection for different climates, together with the economics and their efficiency. 3. To introduce the heating, cooling and ventilation systems of greenhouses. 4. To provide detailed information to the students about the types of polyethylenes (i.e. UV-added polyethylene) used as greenhouse covering materials 								
Programme Outcome Relations	PO1: 5 PO2: 1 PO3: 4 PO4: 3 PO5: 4 PO6: 1	PO7: 2 PO8: 1 PO9: 1 PO10: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.						
Textbooks and/or References:	1	The Greenhouse Environment, by J.W.Mastalerz,1997							
	2	Principles and Species by Dole and Wilkins. 2005							
WEEK	Date	TOPICS						Reference No - Section	
Week 1	24.09.2025	Introduction of Greenhouse Production						1, 2	
Week 2	01.10.2025	Site Selection of Greenhouse						1, 2	
Week 3	08.10.2025	Greenhouse Types, Designs and Construction						1, 2	
Week 4	15.10.2025	Production Methods of Greenhouse						1, 2	
Week 5	22.10.2025	Greenhouse Construction Equipments						1,2	
Week 6	29.10.2025	Public Holiday							
Week 7	05.11.2025	Signal Sensors and Automation Systems						1, 2	
Week 8	08-16 Nov. 2025	Midterm(s)							
Week 9	19.11.2025	Design and Development of Low Cost Greenhouse Structures						1, 2	
Week 10	26.11.2025	Heating, Cooling and Ventilation of Greenhouses						1, 2	
Week 11	03.12.2025	Greenhouse and different type of structures						1, 2	
Week 12	10.12.2025	Efficient irrigation and fertigation management of high value cash crops under greenhouse						1, 2	
Week 13	17.12.2025	Biological control of green house or glasshouse pests						1, 2	
Week 14	24.12.2025	Soilless Culture						1, 2	
Week 15	31.12.2025	Public Holiday							
Week 16	03-11 Jan. 2026	Final Exam							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1	03-11 January 2026	60					
	Semester Evaluation			50					
	Midterm(s)	1	08-16 November 2025	40	80				
	Quiz(zes)	0		0	0				
	Project(s)	0		0	0				
	Homework(s)	0		0	0				
	Laboratory	0		0	0				
Attendance	0		0	0					
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English			
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours				
Theoretical lecture hours (TLH)	13	39	Homework	0	0				
TLH Self Study	13	78	Mid-term Exam (ME)	1	2				
Quiz (Q)	0	0	ME preparation self study	1	6				
Q preparation self study	0	0	Seminar	0	0				
Laboratory (L)	0	0	Presentation	1	4				
L preparation self study	0	0	Project	0	0				
Applied Hours (AH)	1	3	Final Exam (FE)	1	2				
AH preparation self study	1	6	FE preparation self study	1	10				
TOTAL :						150			
Recommended ECTS Credit (Total Hours / 30) :						5.00			

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-26 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
AGRI418	Post-Harvest Physiology	Compulsory	2	2	0	3	6	Tuesday 09:00-10:50, AS119 Friday 09:00-10:50 Lab & Field
Prerequisite:	n/a	Prerequisite to:	n/a					
Semester:	8th Semester	Frequency:	each spring term			Planned class size:	30 students	
Teaching methods:	Lectures, assignment and discussions			Duration:		1 semester		
Course Lecturer:	Assoc. Prof. Dr. Ibrahim Kahramanoğlu				Office Hours Schedule:	Monday 10:00-11:50, Wednesday 10:00-11:50		
E-mail	ikahramanoglu@eul.edu.tr				Office/Room No:	AS 238 & Institute 203		
Phone	+90 392 660 2000 - 2845				Phone:			
Teaching Assistant:					Office/Room No:			
E-mail:								
Course Objectives:	The objective of this course is to provide the student with a basic understanding of the Postharvest Physiology of harvested horticultural products. Understanding the quantitative factors affecting post-harvest losses of horticultural crops, including physiological and biochemical considerations, and compositional and physical changes occur during maturation and senescence. Also, to study commercial procedures of harvest, handling, packing, storage and marketing in relation to commodity requirements and responses.							
Learning Outcomes:	Purpose of the course can be summarized as below: 1) Improve the students' understanding about the physiology of fresh products and learn why they deteriorate 2) Provide students with an understanding of the factors accelerating deterioration in fresh products 3) Teach the maturity indices and "things to consider before harvesting" to the students 4) Provide students with knowledge about how to prevent deterioration in fruits and vegetables after harvesting and learn how to increase the shelf life of fresh produce 5) Improve students' understanding about the innovative and eco-friendly methods in postharvest handling of fresh fruits and vegetables							
Programme Outcome Relations	PO1: 1 PO2: 1 PO3: 3 PO4: 2 PO5: 1	PO6: 4 PO7: 5 PO8: 2 PO9: 4 PO10: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.					
Textbooks and/or References:	1 Kahramanoğlu, İ. (Ed.) (2023). Postharvest Physiology and Handling of Horticultural Crops. CRC Press, 380p. https://doi.org/10.1201/9781003452355 2 Kahramanoğlu, İ. (Ed.) (2017). Postharvest Handling. IntechOpen, edited book. 3 Thompson, A. K. (2008). Fruit and vegetables: harvesting, handling and storage. John Wiley & Sons. 4 Gross, K. C., Wang, C. Y., & Saltveit, M. E. (Eds.). (2016). The commercial storage of fruits, vegetables, and florist and nursery stocks. United States Department of Agriculture, Agricultural Research Service. 5 Kahramanoğlu, İ. (Ed.). (2023). New Advances in Postharvest Technology. BoD-Books on Demand. 6 Fawole, O.A. & Kahramanoğlu, İ. (2026). Nanotechnology in Pre-and Postharvest Horticulture: Applications and Developments. CRC Press, 414p. 7 University of California, Postharvest Center: http://postharvest.ucdavis.edu/Commodity_Resources/Fact_Sheets/							
WEEK	Date	TOPICS					Reference No - Section	
Week 1	03/02/2026	Post harvest physiology of fruits and vegetables & Biological factors (respiration) of deterioration					1, 2, 4, 5, 6	
Week 2	10/02/2026	Biological factors causing deterioration in fresh products: Ethylene, Transpiration and Diseases & introduction to environmental factors (the temperature)					1, 2, 3, 5	
Week 3	17/02/2026	Environmental factors continue: Relative humidity, atmospheric composition and light					1, 2, 5, 6	
Week 4	24/02/2026	Maturity indices = Harvest indices					1, 2, 3, 5	
Week 5	03/03/2026	Harvesting & Postharvest Handling and Product Quality					1, 2, 3, 5	
Week 6	10/03/2026	Flavour and Aroma Biology; & Nutritional Value and Food Safety					1, 2, 3, 5	
Week 7	17/03/2026	Initial Cooling and Cold Storage & Packaging					1, 2, 3, 5	
Week 8	24/03/2026	Postharvest Handling: Fruits and Vegetables					1, 3, 4, 5	
Week 9	31/03/2026	Postharvest Handling: Leafy Vegetables					1, 3, 4, 5	
Week 10	04-12.04.2026	Mid-term Exam						
Week 11	14/04/2026	Plant-based edible coatings for managing postharvest quality of fresh horticultural produce					1, 2, 5, 6	
Week 12	21/04/2026	Some important biomaterials: Propolis, Aloe vera, Chitosan and Gum arabic					1, 2, 5	
Week 13	28/04/2026	Light: An Alternative Method for Physical Control of Postharvest Rotting Caused by Fungi of Citrus					1, 2, 5	
Week 14	05/05/2026	Recommendations for Maintaining Postharvest Quality for some selected crops					1, 3, 7	
Week 15	12/05/2026	Fresh-cut Biology					1, 5, 6, 7	
Week 16	16-25.05.2026	Final exam						
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)			
	Final Exam	1	16-25.05.2026	50				
	Semester Evaluation			50				
	Midterm(s)	1	04-12.04.2026	40	80			
	Quiz(ze)s	0		0	0			
	Project(s)	0		0	0			
	Homework(s)	1		10	20			
	Laboratory	0		0	0			
Attendance	0		0	0				
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:		English			
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours			
Theoretical lecture hours (TLH)	14	28	Homework	1	6			
TLH Self Study	14	56	Mid-term Exam (ME)	1	2			
Quiz (Q)	0	0	ME preparation self study	1	6			
Q preparation self study	0	0	Seminar	0	0			
Laboratory (L)	0	0	Presentation	0	0			
L preparation self study	0	0	Project	0	0			
Applied Hours (AH)	14	28	Final Exam (FE)	1	2			
AH preparation self study	14	42	FE preparation self study	1	10			
TOTAL :					180			
Recommended ECTS Credit (Total Hours / 30) :					6.00			

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



**"Department of Horticulture"
SYLLABUS
2025-2026 Fall Semester**

Course Code AGRI 425	Course Name Organic Farming	Course Type Compulsory	Weekly Course Hours			Credits 3	ECTS 5	Weekly Time Schedule Tuesday 09:00-12:00
Prerequisite: n/a			Prerequisite to: n/a					
Semester: 7th Semester	Frequency: each fall term		Planned class size: 30 students					
Teaching methods: Lectures, assignment and discussions			Duration: 1 semester					
Course Lecturer: Assist. Prof. Dr. Murat Helvacı					Office Hours Schedule: Monday 14:00-17:00/Tuesday 14:00-17:00/Wednesday 09:00-12:00 & 14:00-17:00/Thursday 09:00-12:00			
E-mail: mhelvacı@eul.edu.tr					Office/Room No: AS 240			
Phone: 0 542 850 0336					Phone:			
Teaching Assistant:					Office/Room No:			
E-mail:								
Course Objectives:		The course aims to produce learners who are able to appreciate, practice and promote organic agriculture.						
Learning Outcomes:		1- Identify the ecological concepts and current issues in organic agriculture versus conventional farming 2- Demonstrate appropriate organic farming techniques and strategies used in crop and animal production 3- Plan strategies for marketing organic products and organic farm inputs 4- Recognize organic certification standards and procedures 5- Advocate for organic agriculture 6- Perform and develop skill in simple independent scientific inquiry to instill in them that science based decisions are important and urgent						
Programme Outcome Relations		PO1: 3 PO7: 1 (1) Strongly disagree; PO2: 1 PO8: 2 (2) Disagree; PO3: 2 PO9: 1 (3) Neither agree nor disagree; PO4: 4 PO10: 1 (4) Agree; PO5: 2 (5) Strongly agree. PO6: 5						
Textbooks and/or References:		1 Nandwani, D. (2016). Organic Farming for Sustainable Agriculture. Springer International Publishing. ISBN 978-3-319-26801-9. Switzerland. 2 Vacante, V. and Kreiter, S. (2017). Handbook of Pest Management in Organic Farming. MA : CABI. ISBN-13: 978 1 78064 499 8, Boston 3 Organic Farming: Global Perspectives and Methods. (2023). Birleşik Krallık: Elsevier Science. 4 SAARC Good Agriculture Practices for Vegetables and Fruits in South Asia: Current Status and Future Opportunities. (2018). Bangladesh: SAARC Agriculture 5 Somasundaram, E., Nandhini, D. U., Meyyappan, M. (2019). Principles of Organic Farming: (With Theory and Practicals). India: New India Publishing Agency.						
WEEK	Date	TOPICS					Reference No - Section	
Week 1	23.09.2025	Definition and aims of Organic Farming-Comparison with Intensive Farming					1.1/3.1/5.2	
Week 2	30.09.2025	Passive Plant Protection Methods in Organic Farming					1.5/2.15/2.17/5.3/5.7	
Week 3	07.10.2025	Active Plant Protection Methods in Organic Farming					1.5/2.15/2.17/5.3/5.7	
Week 4	14.10.2025	Organic Manures					1.4/1.9/3.4/5.6	
Week 5	21.10.2025	Soil Cultivation and Preservation of Soil Fertility in Organic Farming					1.4/1.9/3.4/5.6	
Week 6	28.10.2025	Compost and Composting Process					1. 11	
Week 7	04.11.2025	Good Agricultural Practices (GAP)					4.1/4.9/5.5	
Week 8	08-16 Nov. 2025	Midterm(s)						
Week 9	18.11.2025	Organic Fertilizers and Their Impacts on Crop Production					1.4/1.9/3.4/5.6	
Week 10	25.11.2025	Current Developments in Organic Agriculture					3.6/3.7/5.11	
Week 11	02.12.2025	The Past and Present of Organic Agriculture in the TRNC					1.1/3.9/5.2	
Week 12	09.12.2025	Organic Agriculture in Turkey					1.1/3.9/5.2	
Week 13	16.12.2025	Organic Agriculture Worldwide					1.1/3.9/5.2	
Week 14	23.12.2025	Certification Process in Organic Farming					3.6/3.7/5.11	
Week 15	30.12.2025	Organic Pest and Disease Control 1-2					1.5/2.15/2.17/5.3/5.7	
Week 16	03-11 Jan. 2026	Final Exam						
Evaluation Tools		Evaluation Tool	Quantity	Date		Weight in Total (%)	Weight in Semester Evaluation (%)	
		Final Exam	1	03-11 January 2026		50		
		Semester Evaluation						
		Midterm(s)	1	08-16 November 2025		40	80	
		Quiz(zes)						
		Project(s)						
		Homework(s)	1			10	20	
		Laboratory						
		Attendance						
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English		
Evaluation Tool	Quantity	Student Workload	Evaluation Tool		Quantity	Student Workload Hours		
Theoretical lecture hours (TLH)	13	39	Homework		1	4		
TLH Self Study	13	78	Mid-term Exam (ME)		1	2		
Quiz (Q)	0	0	ME preparation self study		1	6		
Q preparation self study	0	0	Seminar		0	0		
Laboratory (L)	0	0	Presentation		0	0		
L preparation self study	0	0	Project		0	0		
Applied Hours (AH)	1	3	Final Exam (FE)		1	2		
AH preparation self study	1	6	FE preparation self study		1	10		
					TOTAL :	150		
					Recommended ECTS Credit (Total Hours / 30) :	5.00		

EUROPEAN UNIVERSITY OF LEFKE - "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
AGRI 471	Plant Breeding	Compulsory	3	0	0	3	5	Thursday / 14.00-16.50
Prerequisite:	n/a		Prerequisite to:			n/a		
Semester:	7th Semester	Frequency:	each fall term			Planned class size:		
Teaching methods:	Lectures			Duration:			1 semester	
Course Lecturer:	Asst. Prof. Dr. Turgut Alas				Office Hours Schedule:		Tuesday 10.00-12.00	
E-mail	talas@eul.edu.tr				Office/Room No:		AS240	
Phone	+90 392 660 2000-2526				Phone:			
Teaching Assistant:					Office/Room No:			
E-mail:					Office/Room No:			
Course Objectives:	Plant Breeding is one of the most interesting fields of Plant Sciences and have very important place in horticultural education programs. It is the art and science of changing the genetics of plants in order to produce new varieties with desired characteristics. Plant breeding can be accomplished through many different techniques ranging from simply selecting plants with desirable characteristics for propagation to more complex molecular techniques. Conventional and Modern Breeding Methods.							
Learning Outcomes:	Upon completion of this course the conscientious students should be able to; 1. Evaluate scientific literature related to crop improvement. Apply genetic and plant breeding principles to new problems. Demonstrate an understanding of basic plant breeding facts and principles. 2. Design appropriate crop improvement strategies for specific problems. Develop new plant breeding programmes and projects. Work in breeding projects and apply successfully appropriate plant breeding techniques .							
Textbooks and/or References:	1	Acquaah, G. 2007. Principles of Plant Genetics and Breeding. Blackwell Publishing Ltd, UK						
	2	Chahal, C. S., Gosal, S.S. 2009. Principles and Procedures of Plant Breeding: Biotechnological and Conventional Approaches. Narosa Publishing House, New						
	3							
	4							
	5							
WEEK	Date	TOPICS					Reference No - Section	
Week 1		History of Breeding					1, 2	
Week 2		Center of Origins					1, 2	
Week 3		Conventional Breeding Methods					1, 2	
Week 4		Modern Breeding Methods					2	
Week 5		Modern Breeding Methods					2	
Week 6		Modern Breeding Methods					2	
Week 7		Genetically Modified Organisms					2	
Week 8		<i>Midterm Exam</i>						
Week 9		Molecular Markers					2	
Week 10		Polymerase Chain Reaction					2	
Week 11		Plant Tissue Culture Role in Breeding					1, 2	
Week 12		Plant Tissue Culture Role in Breeding					1, 2	
Week 13		Plant Tissue Culture Role in Breeding					1, 2	
Week 14		Socio-economic Benefits and Risks of Biotechnology in Plant Breeding					2	
Week 15		<i>Final exam</i>						
Week 16		<i>Final exam</i>						
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)			
	Final Exam	1		50				
	Semester Evaluation			50				
	Midterm(s)	1		40	100			
	Quiz(zes)	0		0	0			
	Project(s)	0		0	0			
	Homework(s)	1		10	0			
	Laboratory	0		0	0			
Attendance	0		0	0				
*** Lifelong Learning Programme (LLP) ***								
				Language of Instruction:		English		
Evaluation Tool	Quantity	Student Workload Hours			Evaluation Tool	Quantity	Student Workload Hours	
Theoretical lecture hours (TLH)	14	42			Homework	0	0	
TLH Self Study	14	84			Mid-term Exam (ME)	1	2	
Quiz (Q)	0	0			ME preparation self study	1	8	
Q preparation self study	0	0			Seminar	0	0	
Laboratory (L)	0	0			Presentation	0	0	
L preparation self study	0	0			Project	0	0	
Applied Hours (AH)	0	0			Final Exam (FE)	1	2	
AH preparation self study	0	0			FE preparation self study	1	12	
TOTAL :							150	
Recommended ECTS Credit (Total Hours / 30) :							5.00	

EUROPEAN UNIVERSITY OF LEFKE - "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
AGRI 481	Citriculture	Compulsory	2	2	0	3	5	Friday / 09.00-11.50
Prerequisite:	n/a		Prerequisite to:			n/a		
Semester:	7th Semester	Frequency:	each fall term			Planned class size:		
Teaching methods:	Lectures					Duration:		1 semester
Course Lecturer:	Asst. Prof. Dr. Turgut Alas					Office Hours Schedule:		Tuesday 10.00-12.00
E-mail	talas@eul.edu.tr					Office/Room No:		AS240
Phone	+90 392 660 2000-2526					Phone:		
Teaching Assistant:						Office/Room No:		
E-mail:						Office/Room No:		
Course Objectives:	Conventional and Modern Breeding Methods. Purpose of the course can be summarized as history and origin, taxonomic classification, morphological and biological characteristics of citrus. Also, information of World production and marketing of citrus fruits.							
Learning Outcomes:	Upon completion of this course the conscientious students should be able to; 1. Meeting environmental requirements and limiting factors typical for citrus. Knowing the peculiarities of the morphology, anatomy, physiology and citrus systematic. Within each of the species and varieties of citrus important in World, its characteristics and its distribution. 2. Knowing the criteria-based selection of varieties and patterns. Determining the influence of certain natural factors in the citrus.							
Textbooks and/or References:	1	Citrus Fruit Biology, Technology and Evaluation, Milind Ladinya, 2008.						
	2	Biology of Citrus, Pinhas Spiegel-Roy, Cabridge University Press, 1996.						
	3							
	4							
	5							
WEEK	Date	TOPICS					Reference No - Section	
Week 1		Citrus Botany					1, 2	
Week 2		Citrus History					1, 2	
Week 3		Citrus Classification					1, 2	
Week 4		Swingle-Tanaka Taxonomy					1, 2	
Week 5		Monoembryony, Nucellar Embryony in Citrus Seeds					1, 2	
Week 6		Polyembryony in Citrus Seeds					1, 2	
Week 7		Citrus Rootstocks					1, 2	
Week 8		Midterm Exam						
Week 9		Citrus Rootstocks					1, 2	
Week 10		Citrus Nutrition					1, 2	
Week 11		Nutrient Deficiency and Toxicity in Citrus Production					1, 2	
Week 12		Citrus Breeding					1, 2	
Week 13		Citrus Nursery					1, 2	
Week 14		Cultural Applications in Citrus Production					1, 2	
Week 15		Final exam						
Week 16		Final exam						
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)			
	Final Exam	1		50				
	Semester Evaluation			50				
	Midterm(s)	1		40	100			
	Quiz(zes)	0		0	0			
	Project(s)	0		0	0			
	Homework(s)	1		10	0			
	Laboratory	0		0	0			
Attendance	0		0	0				
*** Lifelong Learning Programme (LLP) ***								
				Language of Instruction:		English		
Evaluation Tool	Quantity	Student Workload Hours		Evaluation Tool	Quantity	Student Workload Hours		
Theoretical lecture hours (TLH)	14	42		Homework	0	0		
TLH Self Study	14	84		Mid-term Exam (ME)	1	2		
Quiz (Q)	0	0		ME preparation self study	1	8		
Q preparation self study	0	0		Seminar	0	0		
Laboratory (L)	0	0		Presentation	0	0		
L preparation self study	0	0		Project	0	0		
Applied Hours (AH)	0	0		Final Exam (FE)	1	2		
AH preparation self study	0	0		FE preparation self study	1	12		
TOTAL :							150	
Recommended ECTS Credit (Total Hours / 30) :							5.00	

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
			T	A	L				
AGRI 491	Landscape Management	Elective	3	0	0	3	5	Friday 14:00-17:00	
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	7th Semester	Frequency:	each fall term			Planned class size:	30 students		
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:	1 semester		
Course Lecturer:	Assist. Prof. Dr. Murat Helvacı				Office Hours Schedule:	Monday 14:00-17:00/Tuesday 14:00-17:00/Wednesday 09:00-12:00 & 14:00-17:00/Thursday 09:00-12:00			
E-mail	mhelvacı@eul.edu.tr				Office/Room No:	AS 240			
Phone	0 542 850 0336				Phone:				
Teaching Assistant:					Office/Room No:				
E-mail:					Office/Room No:				
Course Objectives:	Identify components of a successful landscape management; Distinguish and describe components of a landscape management contract; List procedures to identify, select, and acquire necessary landscape maintenance equipment; Discuss the importance of landscape design and its implications for landscape maintenance techniques and strategies; Describe water management techniques and practices to increase irrigation use efficiency; Discuss the use of fertilizer and application techniques; Describe bed preparation and plant installation techniques; Describe management strategies for annuals, herbaceous perennials, & ornamental grasses in the landscape; Discuss the importance of sustainable landscape management practices and the need for environmental stewardship; Describe sustainable landscape management practices and techniques								
Learning Outcomes:	1-Demonstrate competency in sustainable landscape maintenance and installation activities, including: safe use of tools and equipment, operation of irrigation systems, pruning and training techniques, hardscape installation and reading/installing on a design plan; 2-Identify common woody and herbaceous plants in the landscape; 3-Recognize and evaluate key pests in the landscape and propose solutions based on IPM strategies; 4-Use a basic understanding of plant biology and soil science to make sound decisions in the design and maintenance of landscapes;								
Programme Outcome Relations	PO1: 1 PO2: 3 PO3: 3 PO4: 2 PO5: 4 PO6: 1	PO7: 1 PO8: 1 PO9: 5 PO10: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.						
Textbooks and/or References:	1	Efe, R., Cürebal, İ., Gad, A., & Toth, B. (Eds.). (2016). Environmental Sustainability and Landscape Management. St. Kliment Ohridski University Press							
	2	Efe, R., Zencirkiran, M., Cürebal, İ., (Eds.). (2018). Recent Researches in Science and Landscape Management. Cambridge Scholars Publishing.							
	3	Hart, C. D., Ivy, R. L. (2019). Landscape Design, Installation, and Management. United States: GOODHEART WILLCOX Company.							
	4	Large-Scale Urban Parks on Post-Industrial Sites in Contemporary Urban Landscape Conceptions. (2023). (n.p.): MDPI AG.							
WEEK	Date	TOPICS					Reference No - Section		
Week 1	26.09.2025	Introduction to Landscape Management					3.1		
Week 2	03.10.2025	The Uses of Garden Flowers in Landscape Architecture Projects, Factors Influencing Their Selection, and Design Examples					2.11/2.36/3.24		
Week 3	10.10.2025	Hard and Soft Landscape Elements					2.9/2.32/3.13		
Week 4	17.10.2025	Landscape Structures I					1.8/3.5/3.10		
Week 5	24.10.2025	Landscape Structures II					1.8/3.5/3.10		
Week 6	31.10.2025	Landscaping					1.8/3.5/3.10		
Week 7	07.11.2025	Principles of Landscape Design					1.6/1.11/3.6		
Week 8	08-16 Nov. 2025	Midterm(s)							
Week 9	21.11.2025	Elements of Landscape Design					1.11/1.21/3.6/3.10		
Week 10	28.11.2025	Preventive Design					2.6		
Week 11	05.12.2025	Urban Landscape					1.45		
Week 12	12.12.2025	Urban Landscape to Accommodate Trees Sidewalk Solutions					1.45/4.1,1/4.1,2/4.1,3		
Week 13	19.12.2025	Urban Design to Accommodate Trees Parking Solutions					1.45/1.1/4.1,2		
Week 14	26.12.2025	Illustrated list of Ornamental Plants — Center for the Study of the Built Environment					2.11/2.36/3.24		
Week 15	02.01.2026	Roots After Planting/Landscape Maintenance					3.10/3.14/3.22		
Week 16	03-11 Jan. 2026	Final Exam							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1	03-11 January 2026	50					
	Semester Evaluation			40					
	Midterm(s)	1	08-16 November 2025	40	80				
	Quiz(ze)s								
	Project(s)								
	Homework(s)	1		10	20				
Laboratory									
Attendance									
*** Lifelong Learning Programme (LLP) ***								Language of Instruction:	English
Evaluation Tool	Quantity	Student Workload Hours				Evaluation Tool	Quantity	Student Workload Hours	
Theoretical lecture hours (TLH)	12	36				Homework	1	4	
TLH Self Study	12	72				Mid-term Exam (ME)	1	2	
Quiz (Q)	0	0				ME preparation self study	1	6	
Q preparation self study	0	0				Seminar	0	0	
Laboratory (L)	0	0				Presentation	0	0	
L preparation self study	0	0				Project	0	0	
Applied Hours (AH)	2	6				Final Exam (FE)	1	2	
AH preparation self study	2	12				FE preparation self study	1	10	
TOTAL :								150	
Recommended ECTS Credit (Total Hours / 30) :								5.00	

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name		Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
AGRI 492	Floriculture		Elective	T	A	L	3	5	Thursday 09:00 -11:50 AM
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	8th Semester	Frequency:	each spring term			Planned class size:	20 students		
Teaching methods:	Lectures, assignment and discussions					Duration:	1 semester		
Course Lecturer:	Prof. Dr. Mehmet Atilla Aşkin					Office Hours Schedule:	Thursday 14:00 -17:30 PM		
E-mail	maskin@eul.edu.tr					Office/Room No:	Dean office		
Phone	+90 392 660 2000-2502 / 0533 8751224					Office/Room No:	Dean office		
Teaching Assistant:	+90 392 7143495					Phone:			
E-mail:						Office/Room No:			
Course Objectives:	<p>1.Principles of fruit production, emphasizing on temperate zone and subtropical fruits are the main subject of this course. within this course integrated management of temperate and subtropical fruit cropping systems including site selection, cultural and management practices, taxonomic classifications, physiological and environmental control of plant development will be covered. Subject matter will include orchard establishment and production methods. 2.To provide students with a comprehensive understanding of the principles and practices involved in floriculture, including the historical and economic significance of the industry.</p> <p>3. To enable students to identify various floricultural plants, including annuals, perennials, bulbs, and flowering shrubs, and understand the criteria for selecting appropriate species for different purposes and environments.</p>								
Learning Outcomes:	<p>1. Learn Plant Identification and Classification: Students will be able to accurately identify and classify a wide range of floricultural plants, including annuals, perennials, bulbs, and flowering shrubs, using botanical terminology and classification systems., 2. Learn Application of Cultivation Techniques: Students will demonstrate proficiency in the essential techniques of floricultural crop cultivation, such as soil preparation, planting, fertilization, irrigation, pruning, and pest management. 3. Learn Floral Design and Arrangement Skills: Students will be able to create aesthetically pleasing floral designs and arrangements, utilizing principles of design, color theory, and knowledge of different flower and foliage types. 4. Learn Understanding of Sustainable Practices: Students will demonstrate an understanding of sustainable and environmentally friendly practices in floriculture, including the use</p>								
Programme Outcome Relations	PO1: 5 PO2: 5 PO3: 3 PO4:4 PO5: 5 PO6: 4		PO7: 5 PO8: 4 PO9: 3 PO10: 5		(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.				
Textbooks and/or References:	1	Introduction to Floriculture Editor: Roy A. Larson Publisher: Academic Press ISBN: 9780124077917 Year: 2013							
	2	The Floriculture Industry Author: R. L. Sheela Publisher: New India Publishing Agency ISBN: 9789380235953 Year: 2011							
	3	Süs Bitkileri Üretim Tekniği Yazar: Necdet Oral Yayın Evi: Ege Üniversitesi Ziraat Fakültesi Yayınları ISBN: 9789754838964 Yıl: 2016							
	4								
	5								
WEEK	Date	TOPICS						Reference No - Section	
Week 1	05.02.26	Introduction to Floriculture						1, 2, 3	
Week 2	12.02.26	Classification of flowers						1, 2, 3	
Week 3	19.02.26	Cutting Flowers: Rose Cultivation: Importance and Propagation						1, 2, 3	
Week 4	26.02.26	Carnation Cultivation: Importance and Propagation						1, 2, 3	
Week 5	05.03.26	Gerbera Cultivation: Importance and Propagation						1, 2, 3	
Week 6	12.03.26	Chrysanthemum Cultivation: Importance and Propagation						1, 2, 3	
Week 7	19.03.26	Indoor ornamental plants: Orchid Cultivation: Importance and Propagation						1, 2, 3	
Week 8	26.03.26	Midterm							
Week 9	02.04.26	Calathea Cultivation: Importance and Propagation						1, 2, 3	
Week 10	09.04.26	Zamioculcus Cultivation: Importance and Propagation						1, 2, 3	
Week 11	16.04.26	Outdoor ornamental plants: Dahlia Cultivation: Importance and Propagation						1, 2, 3	
Week 12	23.04.26	Bayram							
Week 13	30.04.26	Shrubs and hedge plants							
Week 14	07.05.26	Zinnia Cultivation: Importance and Propagation						1, 2, 3	
Week 15	14.05.26	Petunia Cultivation: Importance and Propagation						1, 2, 3	
	16-25.05.26	Final exam						Final exam	
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1		50	50				
	Semester Evaluation			50					
	Midterm(s)	1		30	30				
	Quiz(zes)	0		0	0				
	Project(s)	0		0	0				
	Homework(s)	1		20	20				
	Laboratory	0		0	0				
Attendance	0		0	0					
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English			
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours				
Theoretical lecture hours (TLH)	14	42	Homework	1	4				
TLH Self Study	14	84	Mid-term Exam (ME)	1	2				
Quiz (Q)	0	0	ME preparation self study	1	6				
Q preparation self study	0	0	Seminar	0	0				
Laboratory (L)	0	0	Presentation	0	0				
L preparation self study	0	0	Project	0	0				
Applied Hours (AH)	0	0	Final Exam (FE)	1	2				
AH preparation self study	0	0	FE preparation self study	1	10				
					TOTAL :	150			
					Recommended ECTS Credit (Total Hours / 30) :	5.00			

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



**"Department of Horticulture"
SYLLABUS
2025-2026 Spring Semester**

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
			T	A	L				
AGR1XX5(AGR131)	Agricultural Policy	Compulsory	3	0	0	3	5	Wednesday / 14.00-17.00	
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	6th Semester	Frequency:	each spring term			Planned class size:	25		
Teaching methods:	Lectures, assignments and discussion					Duration:	1 semester		
Course Lecturer:	Asst. Prof. Dr. Turgut Alas					Office Hours Schedule:	re-announced each semester		
E-mail	talas@eul.edu.tr					Office/Room No:	AS240		
Phone	+90 392 660 2000-2576					Phone:			
Teaching Assistant:						Office/Room No:			
E-mail:						Office/Room No:			
Course Objectives:	This course aims to introduce agricultural policies in an economy in theory and in practice to the students that they will need in their professional or academic career. Basic microeconomic and macroeconomic principles are adopted to the agricultural issues. Furthermore, trends in the world agricultural developments are also studied during the semester.								
Learning Outcomes:	1. Effect of Industrial Revolution onto the agriculture and environment. 2. Agriculture, and international agricultural organizations, agricultural policies including common agricultural policies of the EU, agricultural policies in North Cyprus and Turkey. 3. Impact of agriculture and human activities onto the environmental policies. 4. Rural development policies and cooperation in agriculture.								
Textbooks and/or References:	1	Agricultural Policies in Developing Countries, Frank Ellis, 1992							
	2	The Costs of the Common Agricultural Policies, A. Buckwell, K. A. Parton, D. R. Harvey, K. J. Thomson, 1982							
	3	Handbook of International Food and Agricultural Policies. William H Meyers, Thomas Johnson, Donna H Roberts , and Karl Meilke, 2018							
	4								
	5								
WEEK	Date	TOPICS						Reference No - Section	
Week 1	04.02.26	Introduction to the policy						1	
Week 2	11.02.26	Industrial revolution and its effects on environment						1, 2	
Week 3	18.02.26	Role and importance of agricultural sector in environmental conditions						1, 2	
Week 4	25.02.26	Global Warming, Climate Change						1, 2	
Week 5	04.03.26	Agricultural Revolution						1, 2	
Week 6	11.03.26	Effects of Agricultural Revolution on to the Environment						1, 2	
Week 7	18.03.26	Water Crisis, 3R Concept						1, 2	
Week 8	25.03.26	Human Activities, Green Revolution, Effects of Agriculture on the Environment						1, 2	
Week 9	01.04.26	Socio-economic importance of rural development projects						1, 2	
Week 10		Midterm Exam							
Week 11	15.04.26	Sustainable agricultural policies						1, 3	
Week 12	22.04.26	Sustainable agricultural policies						1, 3	
Week 13	29.04.26	EU Common Agricultural Policy (CAP)						1, 3	
Week 14	06.05.26	Cooperation in Agriculture						1, 3	
Week 15	13.05.26	Air Pollution, Soil Pollution, Water Pollution						1, 2	
Week 16		Final exam							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1	16-25 May 2026	50					
	Semester Evaluation					50			
	Midterm(s)	1	04-12 April 2026	40	80				
	Quiz(zes)	0		0	0				
	Project(s)	0		0	0				
	Homework(s)	1		10	20				
	Laboratory	0		0	0				
Attendance	0		0	0					
*** Lifelong Learning Programme (LLP) ***					Language of Instruction:		English		
Evaluation Tool	Quantity	Student Workload Hours			Evaluation Tool	Quantity	Student Workload Hours		
Theoretical lecture hours (TLH)	14	42			Homework	1	3		
TLH Self Study	14	84			Mid-term Exam (ME)	1	2		
Quiz (Q)	0	0			ME preparation self study	1	8		
Q preparation self study	0	0			Seminar	0	0		
Laboratory (L)	0	0			Presentation	0	0		
L preparation self study	0	0			Project	0	0		
Applied Hours (AH)	0	0			Final Exam (FE)	1	2		
AH preparation self study	0	0			FE preparation self study	1	10		
TOTAL :							151		
Recommended ECTS Credit (Total Hours / 30) :							5.03		



EUROPEAN UNIVERSITY OF LEFKE - Faculty of Economics & Administrative Sciences

Department of Business Administration

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
UFEC/CFE 201	Leadership and Management		3	0		3	4	Thursday: 18:00-20:50 / HK001
Prerequisite		Prerequisite to						
Course Lecturer	Lec. Sídika Iskeleli					Office Hours Schedule		Monday: 11:00-13:50
E-mail	siskeleli@eul.edu.tr					Office / Room No		FEAS 10
Phone	2610							
Catalog Description	In this course, an analysis of theoretical and practical knowledge is made. In this context, basic social and psychological factors associated with the concept of leadership and current theories will be explained and how theoretical knowledge can be applied in terms of leadership and management functions in organizations will be emphasized. The aim of the course is to provide students with a deep understanding of leadership and management concepts and to develop their own leadership skills.							
Course Objectives	To provide students with a variety of learning experiences related to the theory and practice of leadership. To enable students to develop a personal leadership profile. To analyze both traditional leadership models and current leadership research findings. To examine the importance of motivation, value development, and change management in organizations.							
Learning Outcomes	<ol style="list-style-type: none"> 1. Describe the concept of leadership and effective leadership theories 2. Distinguish between managerial processes, traits & skills 3. Identify the effective use of power & influence in organizations 4. Recognize leading change in organizations 							
Textbooks and/or References	1	Leadership in organizations / Gary Yukl and William Gardner, Pearson Education, 2020						
WEEK	Date	TOPICS						Reference No - Section
Week 1		Introduction						
Week 2		The Nature of Leadership						Chapter 1
Week 3		Leadership Behavior						Chapter 2
Week 4		The Leadership Situation and Adaptive Leadership						Chapter 3
Week 5		Decision Making and Empowerment by Leaders						Chapter 4
Week 6		Leading Change and Innovation						Chapter 5
Week 7		Leader Traits and Skills						Chapter 7
Week 8		Charismatic and Transformational Leadership						Chapter 8
Week 9		Revision						
Week 8		Mid Term Exam Week : Chapters: 1-2-3-4-5-7						
Week 9		Values-Based and Ethical Leadership						Chapter 9
Week 10		Leadership in Teams and Decision Groups						Chapter 11
Week 11		Strategic Leadership in Organizations						Chapter 12
Week 12		Cross-Cultural Leadership and Diversity						Chapter 13
Week 13		Developing Leadership Skills						Chapter 14
Week 16		Final Exams						All Chapters
Evaluation Tools	Evaluation Tool		Quantity	Date		Weight in Total (%)	Weight in Semester Evaluation (%)	
	Final Exam		1	16 / 25 May 2026		60	60.0	
	Semester Evaluation							
	Midterm(s)		1	14 March / 12 April 2026		40	40.0	
	Quiz(zes), Participation							
	Project(s)							
	Homework(s)							
	Laboratory							
Other								
*** Lifelong Learning Programme (LLP) ***						Language of Instruction:		English
Evaluation Tool	Quantity	Student Workload Hours		Evaluation Tool		Quantity	Student Workload Hours	
Theoretical Hours	15	45.0		Applied Hours				
Midterm	1	1.0		Final		1	1.0	
self-study MT				Self-study - Final				
self-study cases				Homework				
self-study quizzes				Seminar				
				Presentation				
				Self Study		37	74.0	
TOTAL :						60	121.0	
Recommended ECTS Credit (Total Hours / 30) :						4.03 ≈ 4		



EUROPEAN UNIVERSITY OF LEFKE

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Title	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
CFE202	Environment and Sustainable Development	Compulsory	3	0	0	3	4	Fridays 15.00-17.50 (ORTAAMFi)
Prerequisite		Prerequisite to						
Course Lecturer	Asst. Prof. Dr. Semih OĞUZCAN					Office Hours Schedule	Monday 10.00-11.50 /Tuesday 13.00-14.50 /Friday 14.00-14.50	
E-mail	soguzcan@eul.edu.tr							
Phone						Office / Room No.	AS310	
Teaching Assistant						Phone		
E-mail						Office / Room No.		
Catalogue Descriptions	Ecology and sustainability, biodiversity, urbanization, ecological succession, climate and biodiversity, sustaining biodiversity, sustaining resources and environmental quality: food production, water resources and pollution, mineral sources, energy sources, environmental hazards and human health, air pollution, ozone depletion, climate change, solid and hazardous wastes							
Objectives	The purpose of this course is to give brief information about nature and environment along with sustainability concept. Help students gain awareness about environmental problems. It is aimed to inform students about daily practices that will lead to a more sustainable living.							
Learning Outcomes	On successful completion of the course, the student will be able to: (1) understand environmental problems (2) construct relationship between ecology, biodiversity and sustainability (3) apply principles of sustainability on various environmental issues (4) understand sustainable resources management: water, energy, minerals (5) understand how resource consumption affect air pollution and climate change (6) understand advantages and disadvantages of different strategies in solid waste management							
Programme Outcome Relations	PO1: 1 PO2: 1 PO3: 1 PO4: 1 PO5: 1 PO6: 4	PO7: 3 PO8: 3 PO9: 1 PO10a: 5 PO11a: 5						(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.
Textbooks and/or References	1 G. Tyler Miller, Scott Spoolman, «Environmental Science», 15th Edition, Cengage Learning, 2016 (Textbook) 2 Jefferson W. Tester, Elisabeth M. Drake, Michael J. Driscoll, Michael W. Golay, and William A. Peters, «Sustainable Energy Choosing Among Options», 2nd Edition, MIT Press, 2012. (Reference)							
WEEK	Date	TOPICS					Reference No - Section	
Week 1	06/02/2026	Introduction: environmental problems and sustainability, matter, energy and systems					1: 1, 2	
Week 2	13/02/2026	Ecosystems					1: 3	
Week 3	20/02/2026	Biodiversity					1: 4, 5	
Week 4	27/02/2026	The human population and urbanization					1: 6	
Week 5	06/03/2026	Climate change and biodiversity					1: 7	
Week 6	13/03/2026	Sustaining biodiversity					1: 8, 9	
Week 7	tdb	Food production and environment					1: 10	
Week 8	27/03/2026	Water resources and water pollution					1: 11	
Week 9	03/04/2026	Nonrenewable mineral resources					1: 12	
Week 10	04-12/04/2026	Midterms						
Week 11	17/04/2026	Energy resources					1: 13	
Week 12	24/04/2026	Environmental hazards and human health					1: 14	
Week 13	tdb	Air pollution, climate change and ozone depletion					1: 15	
Week 14	08/05/2026	Solid and hazardous waste					1: 16	
Week 15	15/05/2026	Revision						
Week 16	16-25/05/2026	Final Exam						
Evaluation Tools	Evaluation Tool	Quantity	Date		Weight in Total (%)	Weight in Semester Evaluation (%)		
	Final Exam	1	16-25/05/2026		60			
	Semester Evaluation				40			
	Midterm(s)	1	04-12/04/2026		35	70.0		
	Quiz(zes)							
	Project(s)	1	30/04/2026		5	8.3		
	Homework(s)							
	Laboratory works							
Attendance								
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English		
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours			
Theoretical lecturing hours (TLH)	13	39	Homework					
TLH self study	13	52	Project	1	6			
Quiz (Q)			Presentation					
Q preparation self study			Seminar					
Laboratory (L)								
L preparation work								
Midterm exam (ME)	1	2	Final exam (FE)	1	2			
ME preparation self study	1	10	FE preparation self study	1	10			
TOTAL :					121			
Recommended ECTS Credit (Total Hours / 30) :					4			



EUROPEAN UNIVERSITY OF LEFKE

SYLLABUS 2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
COM101	English 1		3	0	0	3	3	
Prerequisite		Prerequisite to						
Course Lecturer	Mehmet Mert				Office Hours Schedule	Monday 09:00-11:00		
E-mail	mmert@eul.edu.tr				Office / Room No	AS232		
Phone					Phone	2684		
Teaching Assistant(s)	-				Office / Room No	-		
E-mail	-							
Course Objectives	This course introduces the main grammatical structures to the students and helps them to develop their listening, speaking, reading and writing skills as well as vocabulary and pronunciation. The students are provided with clear rules and example sentences. The lessons contain high frequency vocabulary that the students are likely to come across during their studies and future their future careers							
Learning Outcomes	1. The students will be able to understand and use English structures accurately to express themselves. 2. The students will be able to learn and use the vocabulary learnt during the lessons.							
Textbooks and/or	1. English File, Intermediate Plus, Student's Book, Christina Latham-Koenig, et al, Oxford University Press, Third Edition 2. English File, Pre-Intermediate Plus, Workbook, Christina Latham-Koenig, et al, Oxford University Press, Third Edition							
WEEK	Date	TOPICS					Reference no to learning outcomes	
Week 1		Pronouns					1.2	
Week 2		Making adjectives					1.2	
Week 3		Adjectives					1.2	
Week 4		Adjective Suffixes					1.2	
Week 5		Modals of deduction					1.2	
Week 6		Holidays					1.2	
Week 7		Possessives, shops, services					1.2	
Week 8		Past Simple / Continuous, used to, stages of life					1.2	
Week 9		MID TERMS						
Week 10		Passives					1.2	
Week 11		kinds of films					1.2	
Week 12		future forms, rubbish and recycling					1.2	
Week 13		1st-2nd conditionals, applying for a job-course					1.2	
Week 14		Present Perfect Simple, TV (phrasal verbs)					1.2	
Week 15		Present Perfect Continuous, Types of TV prog.					1.2	
Week 16		FINALS						
Evaluation Tools	Evaluation Tool		Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)		
	Final Exam		1		60	100		
	Semester Evaluation							
	Midterm(s)		1		40	100.0		
	Quiz(zes)							
	Project(s)							
	Online Homework(s)							
	Laboratory							
Other								
*** Lifelong Learning Programme (LLP) ***					Language of Instruction:		English	
Evaluation Tool			Quantity	Student Workload Hours				
Theoretical Hours			13	13x3	39			
Midterm			1	1x1	1			
Self Study for midterm			1	39x1	39			
Final Exam			1	1x1	1			
Self Study for final			1	10x1	10			
TOTAL :							90	
Recommended ECTS Credit (Total Hours / 25) :							90/30=3	



EUROPEAN UNIVERSITY OF LEFKE

SYLLABUS

2025-2026 FALL SEMESTER

Course Code	Course Title	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
			T	A	L				
COM109	BASIC MATHEMATICS I	Compulsory	3	0	0	3	5	WEDNESDAY 15:00-17:50	
Prerequisite		Prerequisite to							
Course Lecturer	Aslı BARDAK					Office Hours Schedule	TUESDAY-12:00-14:50		
E-mail	abardak@eul.edu.tr								
Phone						Office / Room No.	AS 304		
Teaching Assistant						Phone			
E-mail						Office / Room No.			
Catalogue Descriptions	Repetition of basic algebra, fractions and partial fractions. The basic algebra and linear equations, arithmetic expression and simplification of algebraic expressions. Operations with surds and indices. Methods for solving logarithmic functions. The techniques for solving quadratic functions. Graph sketching for quadratic equations in Cartesian plane. Solving linear, polynomial and rational inequalities. The parallel and perpendicular lines.								
Objectives	Students will be able to model and solve real-world situations found in a business environment using a variety of methods of mathematics. End of this course, student be able to learn algebraic expressions, real numbers, equations and inequalities, systems of equations. It includes also includes Pascal's triangle, exponential numbers, logarithms, and linear geometry issues.								
Learning Outcomes	On successful completion of this course, all students will have developed knowledge and understanding of: (1) Ability of simplified the algebraic functions (2) Use the graph to illustrate business mathematical techniques (3) Ability to understand Rational numbers, surds and solving the equations (4) Ability to unerstand exponential numbers and logarithms (5) Ability to understand equations and inequalities								
Textbooks and/or References	1	Ernest F. Haeussler, Jr. Richard S. Paul. Introductory Mathematical Analysis, Prentice Hall, 2002							
	2	Frank S. Budnick, Applied Mathematics for Business, Economics and The Social Sciences, 1994, McGraw Hill							
	3	Margaret L. Lial, Raymond N. Greenwell, Nathan P. Ritchey Finite Mathematics and Calculus with Applications, 10/E, Pearson, 2016							
	4	L. Bostock, S. Chandler. Core Maths for A Level, Stanley Thornes (Publishers) LTD, 1994							
WEEK	Date	TOPICS						Reference No - Section	
Week 1		Introduction to algebraic expressions						2:1.1,	
Week 2		Introduction to algebraic expressions						2:1.1,	
Week 3		Quadratic Equations						3:R.1,2	
Week 4		Pascal's triangle						3:R.2	
Week 5		Fractions and Partial Fractions							
Week 6		Rules for Surds and Indices						3:R.3	
Week 7		Introducing the Square root's rules						3:R.6,7	
Week 8		midterm week							
Week 9		Logarithmic rules and evaluating logarithmic expression						2:7.3	
Week 10		Equations and Quadratic Equations						2:4.1,4.2,6.1	
Week 11		Function properties, inverse functions						02:05.1	
Week 12		Solving composite functions						2:3.1	
Week 13		Linear Inequalities						2:1.3, 3:R.5	
Week 14		Quadratic Inequalities and Inequalities Systems						2:1.3, 3:R.5	
Week 15/16		Final Exam week							
Evaluation Tools	Evaluation Tool	Quantity	Date			Weight in Total (%)	Weight in Semester Evaluation (%)		
	Final Exam	1				50	50.0		
	Semester Evaluation					50			
	Midterm(s)	1				50	50.0		
	Quiz(zes)								
	Project(s)								
	Homework(s)								
	Laboratory work(s)								
Attendance									
*** Lifelong Learning Programme (LLP) ***					Language of Instruction:		English		
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours				
Theoretical lecturing hours (TLH)	13	39	Homework						
TLH self study	13	78	Project						
Quiz (Q)			Presentation						
Q preparation self study			Seminar						
Laboratory (L)									
L preparation work									
Midterm exam (ME)	1	2	Final exam (FE)	1	2				
ME preparation self study	1	14	FE preparation self study	1	22				
					TOTAL :	157			
					Recommended ECTS Credit (Total Hours / 30) :	5.23			



EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

SYLLABUS

2025-2026 FALL

Course Code	Course Title	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
			T	A	L				
COM121	PHYSICS	Compulsory	3	0	0	3	4		
Prerequisite		Prerequisite to							
Course Lecturer	Mehmet Burhan					Office Hours Schedule	Monday: 09:00-12:00		
E-mail	mburhan@eul.edu.tr								
Phone	3502					Office / Room No.	AS308		
Teaching Assistant						Phone No.			
E-mail						Office / Room No.			
Catalogue Descriptions	This course aims to introduce fundamental concepts of physics for engineering science and to provide essential background for students. The course provides deep understanding of thermodynamics, electricity and magnetism. Also, the course aims to show the students the applications of the course material.								
Objectives	The main aim of this course is to introduce the fundamental concepts of thermodynamics, electricity and magnetism necessary for science and to provide essential background for students.								
Learning Outcomes	On successful completion of this course, all students will have developed knowledge and understanding of: (1) an ability to translate, interpret and extrapolate important scientific models and laws governing classical mechanics, (2) an ability to demonstrate critical thinking and problem solving skills in the area of physics, (3) an ability to perform mathematical modeling of basic problems and establish their analytic solutions in field of classical mechanics, (4) an understanding of the connection of course material to applications.								
Programme Outcome Relations	PO1: 5 PO2: 5 PO3: 1 PO4: 1 PO5: 1 PO6: 1	PO7: 1 PO8: 1 PO9: 1 PO10: 1 PO11: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.						
Textbooks and/or References	<ol style="list-style-type: none"> Serway, Physics for Scientists and Engineers with Modern Physics, 9/e Halliday and Resnick, Fundamentals of Physics Sears and Freedman, University Physics, 10/e Gettys, Keller and Skove, Physics: Classical and Modern 								
WEEK	Date	TOPICS					Reference No - Section		
Week 1		Introduction							
Week 2		Kinematics In One Dimension: Distance, displacement, average velocity, average acceleration, instan. Velocity and acceleration					1:19.1,19.2,19.3,19.4,19.5		
Week 3		Kinematics in One Dimension with constant acceleration: , motion on x-axis and Properties of motion on y-axis					1:20.1,20.2,20.3,20.4,20.5,20.6,20.7		
Week 4		Vectors: Unit Vector Representation and Matematical Operations with Vectors					1:21.1,21.2,21.3,21.4,21.5		
Week 5		Kinematics in Two Dimension: Properties of Projectile Motion					1:22.1,22.2,22.3,22.4,22.6,22.7		
Week 6		Laws of Motion: First, Second and Third Law of Newton					1:23.1,23.2,23.3,23.4,23.5,23.6		
Week 7		Applications of Newton's Laws					1:24.1, 24.2,24.3, 24.4		
Week 8		MIDTERM(S)					1:25.1,25.2,25.3,25.4		
Week 9		Dynamics of Circular Motion							
Week 10		Work and Energy					1:29.1,29.2,29.3,29.4,29.5		
Week 11		Definition of Mechanical Energy, Potential Energy, Kinetic Energy and Conservation of Mechanical Energy					1:30.1,30.2,30.3		
Week 12		Heat and Temperature					1:30.5,30.6		
Week 13		Kinetic Theory					1:31.1,31.2,31.3,31.4, 31.4,31.5		
Week 14		Review							
Week-15/16		FINALS							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1		50	50.0				
	Semester Evaluation								
	Midterm(s)			30					
	Quiz(zes)								
	Project(s)								
	Homework(s)			20					
	Laboratory work(s)								
Attendance									
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:					English	
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours				
Theoretical lecturing hours (TLH)	13	39	Homework						
TLH self study	13	50	Project						
Quiz (Q)	1	0.5	Presentation						
Q preparation self study	1	4	Seminar						
Laboratory (L)			Tutorial						
L preparation work									
Midterm exam (ME)	1	2	Final exam (FE)	1	1.5				
ME preparation self study	1	10	FE preparation self study	1	12				
TOTAL :					119				
Recommended ECTS Credit (Total Hours / 30) :					3.97				

COURSE DESCRIPTION						
COMN253-STAT253 Statistics						
Course	Code	Semester	T+P Hours	Credit	ECTS	
Statistical Methods I	COMN-STAT253	2025-2026 FALL	2+1	3	5	

Prerequisite	Non
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Course Language	English
Course Type	Compulsory
Course Level	Year 1-Undergraduate
Course Coordinator	-
Course Lecturer	Assist.Prof.Dr.Hüseyin S. Mahmutoğlu
Course Assistant	-
Course Objectives	The main purpose of the course is to introduce basic statistics for behavioural sciences. It also aims to help students to gain conceptual understanding of statistics within the context of research.
Course Content	Basic Statistics, Frequency distributions, Percentile, Measures of Central Tendency, Measures of Variability, Correlation, Random Sampling, Hypothesis Testing

Course Learning Outcomes	Program Learning Outcomes	Teaching Methods	Evaluation Methods
to understand the basic concepts and terms used in statistics at introductory level	1, 2, 3, 4, 5,6,7, 8, 9, 10, 11, 12, 13,14,15	1,2	A
to be familiar with basic principles needed to understand statistical procedures, statistical procedures..	1, 2, 3, 4, 5,6,7, 8, 9, 10, 11, 12, 13, 14,15	1,2	A

to interpret results based on the research methods and statistical procedures used to analyze the data.	1, 2, 3, 4, 5,6,7, 8, 9, 10, 11, 12, 13, 14,15	1,2	A
to apply the basic principles of statistic and appropriate	1, 2, 3, 4, 5,6,7, 8, 9, 10, 11, 12, 13, 14,15	1,2	A

Teaching Methods:	1: Lecture, 2: Discussion, 3: Seminar, 4: Research, 5: Case Study/ Role Play, 6: Problem Solving, 7: Guest Lecturer
Evaluation Methods:	A: Exam, B: Written Homework, C: Presentation, D: Research, E: Debate, F: Quiz, G: Attendance

WEEKLY SUBJECTS AND RELATED PREPARATION STUDIES

WEEK	SUBJECTS	PREPARATION STUDIES
1	Introduction to Statistics	Resource(R).1-2
2	Statistics and Research Process	R. 1-2
3	Statistics and Research Process cont.	R. 1-2
4	Frequency Distributions	R. 1-2
5	Measures of Central Tendency: The Mean, Median & Mode	R. 1-2
6	Measures of Variability: Range, Variance, Standard Deviation	R. 1-2
7	Correlation	R. 1-2
8	Random Sampling	
9	Midterm exam	
10	Binominal Distribution	R. 1-2
11	Normal Distribution	R. 1-2
12	Introduction to Hypothesis Testing	R. 1-2
13	Type I and Type II Error	R. 1-2
14	Review and discussion	
15	Final exam	

Sources

Course Notes / Textbooks	<ol style="list-style-type: none"> 1) Heiman, G. (2011). Basic Statistics for the Behavioral Sciences, 6th ed. Canada: Cengage Learning. 2) Pagano, R.R. (2009). Understanding Statistics in the Behavioral Sciences, 9th. Canada: Cengage Learning. 3) Prem, S. Mann (2011), Introductory Statistics international Student version. 7th Edition. Asia: John Wiley and Sons. 4) Johnson/Kuby Inst Ed.Stat(2012): Cengage Learning Customers & Sales.
Other resources	Academic Journals, Articles

SHARED MATERIAL	
Documents	Handouts of lecture notes, articles
Homework	
Exams	

EVALUATION SYSTEM		
SEMESTER REQUIREMENTS	NUMBER	PERCENTAGE OF GRADE
Midterm Exam	1	40
Quizzes		
Homework Assignments	1	10
Total		50
Percentage of Final Work		50
Percentage of Semester Work		50
Total		100
Course Category	Core Course	

THE RELATIONSHIP BETWEEN COURSE LEARNING OUTCOMES AND PROGRAM
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QUALIFICATIONS

#	Program Qualifications/Outcomes	* Level of Contribution				
		1	2	3	4	5
1.	To know philosophical and historical development of psychology area, including basic concepts, various theory and practice schools, and to have basic knowledge regarding basic theories and application areas for various sub fields of psychology as clinical, experimental, social, developmental, industrial, health, traffic, and educational psychology.					X
2.	To know related regulations and/or professional and ethical values regarding domains of psychology. To use theoretical and applied knowledge in accordance with the principles of professional and research ethics of psychology; committed to ethic responsibility and principles of the psychology profession.					X
3.	To notice the contributions of the basic approaches and perspectives of psychology to the other disciples and interdisciplinary perspectives.					X
4.	To generate research questions; problem solving via scientific methods and evaluate data by using knowledge of psychology domain.				X	
5.	To acquire knowledge and skill to apply theoretical knowledge into practice in various fields of psychology.					X
6.	To acquire skills regarding data collection, analysis via appropriate statistics, and interpretation of handled results.			X		
7.	To acquire skills regarding reporting research results according to scientific writing format.					X
8.	To acquire basic skills regarding prediction, description, formulation and solution of cognitive, emotional and behavioural processes related problems of individuals.					X

9. To have basic level of knowledge/skills regarding observation and interviewing technics.	X			
10. To have basic level of knowledge/skills regarding psychological assessment and measurement tools.	X			
11. To be able to develop and study research tools as scale, test or inventories and be able to use them at research studies.	X			
12. To have proficiency regarding information and communication technologies to access to the knowledge and to spread knowledge.				X
13. To be able to use acquired knowledge, skills and proficiencies to prepare, and administer field studies and to analyse, have results and to apply these results into practice.			X	
14. To possess the understanding that the differences regarding age, sex, race, ethnic group, national identity, religion, sexual orientation, disability, and socio-economic status shouldn't cause to prejudice.				X
15. To have knowledge regarding environmental, economic and social sustainability and awareness and ability to interpret the projections of the sustainability to various areas.			X	

*1 Lowest, 2 Low, 3 Average, 4 High, 5 Highest

ECTS / WORKLOAD TABLE			
Activities	Number	Duration (hours)	Total Workload (hours)
Course Hours (Including Exam Week: 14 x Total Hours)	14	3	42
Out of Class Workload (Preparatory work, reinforcement)			58
Midterm Exam	1		15
Quizzes			
Homework Assignments	1		10
Final Exam	1		25
Total Workload			150
Total Workload/ 30 (h)			5.3
ECTS Credit of Course 150/30=5			5



EUROPEAN UNIVERSITY OF LEFKE

Faculty of Engineering

SYLLABUS

2025-2026 FALL SEMESTER

Course Code	Course Title	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
COMN111	CHEMISTRY	Compulsory	3			3	4	Thursday 12:00-14:50 (HK000)
Prerequisite	Prerequisite to							
Course Lecturer	Assist. Prof. Dr. Devrim ÖZDAL					Office Hours Schedule	Tuesday 11:00-12:00	
E-mail	devrimozdal@eul.edu.tr					Office / Room No	Faculty of Engineering / Room No : AS307	
Phone	2516					Office / Room No	Faculty of Engineering / Room No : AS307	
Teaching Assistant						Phone		
E-mail						Office / Room No		
Catalogue Descriptions	The aim of this course is to describe students how substances interact with one another. Students will be informed on how the atom is made up, how atoms come together to make molecules and how molecules can interact, chemical compounds, chemical bonds, chemical equations and reactions, aqueous solutions, periodic table, gases, the electronic structure of the atom.							
Objectives	The aim of this course is to deliver basic general chemistry content and introduce students to the chemistry laboratory. Matter, atomic structure, periodic table, mole concept, stoichiometry, aqueous solutions, and gasses.							
Learning Outcomes	On successful completion of the course, the student will be able to: (1) understand and carryout calculations on properties of Substances (2) learn atomic structure and naming of compounds (3) learn mole concept, balancing equations, stoichiometry (4) carry out calculations on aqueous reactions (5) learn ideal gasses, gas mixtures and gas properties (6) understand electronic configurations and covalent bonding (7) understand concentration units of solutions, principles of solubility and colligative properties of nonelectrolytes							
Programme Outcome Relations	PO1: 4 PO2: 1 PO3: 1 PO4: 1 PO5: 3 PO6: 1	PO7: 1 PO8: 1 PO9: 1 PO10: 1 PO11: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.					
Textbooks and/or References	1	William L. Masterton, Cecile N. Hurley, Chemistry Principles and Reactions, 8th edition, Cengage Learning, 2016.						
	2	Nivaldo J. Tro, Chemistry: A Molecular Approach, 5th ed., Pearson Education Limited, 2021.						
	3	K.M.Whitten, R.E.Davis, M.L.Pech, G.G.Stanley, Chemistry, 10th ed., Brooks/Cole CENGAGE Learning, 2014.						
WEEK	Date	TOPICS					Reference No - Section	
Week 1	22-26.09.2025	Matter and Measurements; Classifications of matters and Units in measurements					1: 1.1-1.2	
Week 2	29.09.-	Matter and Measurements; Properties of Substances and Density					1: 1.3	
Week 3	06-10.10.2025	Atoms, Molecules and Ions; Atom theories and Subatomic particles					1: 2.1-2.4	
Week 4	13-17.10.2025	Atoms, Molecules and Ions; Properties of Periodic table and Structural formulas					1: 2.4, 2.6	
Week 5	20-24.10.2025	Atoms, Molecules and Ions; Naming of Ionic and Covalent Compounds					1: 2.7	
Week 6	27-31.10.2025	Mass Relations in Chemistry: Stoichiometry ; Moles, mole-gram conversions and Reactions					1: 3.1-3.3	
Week 7	03-07.11.2025	Mass Relations in Chemistry; Writing and Balancing Chemical equations, Limiting Reactant, Theoretical and Experimental Yield, Percent Yield					1: 3.3-3.7	
Week 8	10-14.11.2025	Midterm Exam Week						
Week 9	17-21.11.2025	Mass Relations in Chemistry; Writing and Balancing Chemical equations, Limiting Reactant, Theoretical and Experimental Yield, Percent Yield					1: 3.3-3.7	
Week 10	24-28.11.2025	Reactions in Aqueous Solutions					1:4.1-4.7	
Week 11	01-05.12.2025	Gases; Measurements of gases, Ideal gas law, Gas mixtures					1: 5.1-5.7	
Week 12	08-12.12.2025	Electronic Structure and Periodic Table					1: 6.1-6.7	
Week 13	15-19.12.2025	Solutions; Concentration Units, Properties of Solubility					1: 10.1-10.7	
Week 14	22-26.12.2025	Revision					All Topics	
Week 15	29-31.12.2025	<i>Public Holiday</i>						
Week 16	05.09.01.2026	Final Exam Week						
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)			
	Final Exam	1	03-11.01.2026	50				
	Semester Evaluation			50				
	Midterm(s)	1	08-16.11.2025	50	100.0			
	Quiz(zes)							
	Project(s)							
	Homework(s)							
	Laboratory works							
Attendance								
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English		
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours			
Theoretical lecturing hours (TLH)	14	42	Homework					
TLH self study	14	42	Project					
Quiz (Q)			Presentation					
Q preparation self study			Seminar					
Laboratory (L)			Tutorial					
L preparation work								
Midterm exam (ME)	1	2	Final exam (FE)	1	2			
ME preparation self study	1	10	FE preparation self study	1	12			
TOTAL :					110			
Recommended ECTS Credit (Total Hours / 25) :					4.4			



EUROPEAN UNIVERSITY OF LEFKE

Faculty of Economics and Administrative Sciences

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
COM112/ COMN107	Economics	Compulsory	3	0		3	6	
Prerequisite	None					None		
Course Lecturer	Asst. Prof. Dr. Berna Serener				Office Hours			
E-mail	bserener@eul.edu.tr							
Phone	2608				Office / Room No	FEAS Room 8		
Catalogue Description	This course introduces students to the key concept and topic of microeconomics such as opportunity cost, production possibility frontier, demand and supply, elasticity, utility, preferences, production, costs, perfect competition, monopoly.							
Course Objectives	This course introduces students to the key concept and topic of microeconomics such as opportunity cost, production possibility frontier, demand and supply, elasticity, utility, preferences, production, costs, perfect competition, monopoly.							
Learning Outcomes	On successful completion of this course, all students will have developed knowledge and understanding of: (1) Supply and Demand Analysis, (2) Elasticities, (3) Production, (4) Costs, (5) Market Structures (6) Presentation of economic issues with graphs, tables and essays.							
Textbooks and/or References	1	M. Parkin, Economics, 14th Edition, Pearson, 2023.						
	2	N. G. Mankiw, Principles of Economics, 10th Edition, 2023.						
WEEK	Date	TOPICS					Reference No - Section	
Week 1		What is Economics? Definition of economics-Two big economic questions					1; 1	
Week 2		What is Economics? (cont.) The economic way of thinking-Economics as social science and policy tool					1; 1	
Week 3		The Economic Problem: Production possibilities and opportunity cost					1; 2	
Week 4		Demand and Supply					1; 3	
Week 5		Demand and Supply					1; 3	
Week 6		Elasticity					1; 4	
Week 7		Holiday						
Week 8		Elasticity					1; 4	
Week 9		Government Actions in Markets: A housing market with a rent ceiling-A labour market with a minimum wage					1; 6	
Week 10		Midterm Exam						
Week 11		Output and Costs					1; 11	
Week 12		Market Structures					1; 12,13,14,15	
Week 13		Holiday						
Week 14		Review						
Week 15		Exam Week						
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)			
	Final Exam IN CLASS	1		60				
	Midterm Exam IN CLASS	1		40				
	Quiz on moodle							
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English		
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours			
Theoretical lecturing hours (TLH)	11	11x3= 33	Homework					
TLH self study	11	11x5 = 55	Project					
Quiz (Q)			Presentation					
Preperation for Quiz			Seminar					
Midterm Exam	1	1	Final Exam	1	1			
Midterm Exam preparation self study	1	40	Final Exam preparation self	1	50			
TOTAL :					180			



EUROPEAN UNIVERSITY OF LEFKE

BIOCHEMISTRY

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Title	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule	
			T	A	L				
COMN114	Biochemistry	Compulsory	3	0	0	3		Friday 12:00-15:00	
Prerequisite		Prerequisite to							
Course Lecturer	Asst. Prof. Dr. Osman Dadaş				Office Hours Schedule				
E-mail	odadas@eul.edu.tr				Office / Room No		ECZ020		
Phone					Phone				
Teaching Assistant					Office / Room No				
E-mail									
Catalogue Descriptions	This module aims to introduce how biomolecules are produced structurally and what their functions are. Metabolic pathways and several biochemically relevant diseases are discussed throughout the module. Concepts of solubility in water, pH differences and how these properties can affect the structure and function of biomolecules are also discussed.								
Objectives	To understand chemical bonds in biology and how molecules are made up. To understand the importance of water and principles of solubility and buffers. To become familiar with acid, base and pH concepts. To understand the structure and function of nucleic acids, carbohydrates, lipids and proteins. To understand the principles of enzymes, their mechanism of action, importance of enzyme structure, regulation of enzymes, enzyme kinetics and enzyme inhibition mechanisms. To learn about metabolism with a focus on carbohydrate metabolism to produce energy within the body. To understand the concepts of how excess energy is stored within living organisms and how glucose could be produced from non-carbohydrate precursors.								
Learning Outcomes	Upon successful completion of the course, students will be able to: 1. Understand chemical bonds in biology and how molecules are built 2. Understand the importance of water and principles of solubility, buffers and acid/base concepts. 3. Understand the structure and function of biomolecules. 4. Understand the function and principles of enzymes. 5. Understand the concepts of metabolism and energy production and utilization.								
Programme Outcome Relations	PO1: PO2: PO3: PO4: PO5: PO6a: PO6b:		PO7: PO8: PO9: PO10a: PO10b: PO11:		(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.				
Textbooks and/or References	1 Harper's Illustrated Biochemistry - Thirty Second Edition 2 Lecture Notes 3								
WEEK	Date	TOPICS					Reference No - Section		
Week 1	06.02.2026	Introduction to Biochemistry					1,2		
Week 2	13.02.2026	Chemical bonds in biology					1,2		
Week 3	20.02.2026	Water, solubility and pH					1,2		
Week 4	27.02.2026	Structure and function of carbohydrates					1,2		
Week 5	06.03.2026	Structure and function of nucleic acids					1,2		
Week 6	13.03.2026	Structure and function of lipids					1,2		
Week 7	20.03.2026	National Holiday					1,2		
Week 8	27.03.2026	Amino acids					1,2		
Week 9	03.04.2026	Protein structure					1,2		
Week 10	04-12.04.2026	Midterm Exams							
Week 11	17.04.2026	Enzymes - regulation and inhibition mechanisms					1,2		
Week 12	24.04.2026	Introduction to metabolism and glycolysis					1,2		
Week 13	01.05.2026	Citric acid cycle and oxidative phosphorylation					1,2		
Week 14	08.05.2026	Excess glucose storage and gluconeogenesis mechanisms					1,2		
Week 15	15.05.2026	Course Review and Revision							
Week 16	16-25.05.2026	Final Exams							
Evaluation Tools	Evaluation Tool	Quantity	Date		Weight in Total (%)	Weight in Semester Evaluation (%)			
	Final Exam	1			60				
	Semester Evaluation					40			
	Midterm(s)	1			40	100.0			
	Quiz(zes)								
	Project(s)								
	Homework								
	Laboratory works								
Attendance									
*** Lifelong Learning Programme (LLP) ***		***		Language of Instruction:		English			
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours				
Theoretical lecturing hours (TLH)	14	42	Homework						
TLH self study	14	28	Project						
Quiz (Q)			Presentation						
Q preparation self study			Seminar						
Laboratory (L)			Tutorial						
L preparation work									
Midterm exam (ME)	1	1	Final exam (FE)	1	1				
ME preparation self study	1	8	FE preparation self study	1	10				
					TOTAL :				
					90				
					Recommended ECTS Credit (Total Hours / 30) :				
					3.00				



EUROPEAN UNIVERSITY OF LEFKE

SYLLABUS 2025-2026 Spring Semester

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
COM110	English 2		3	0		3	3	
Prerequisite	Prerequisite to							
Course Lecturer	Mehmet Mert				Office Hours Schedule	Monday 09:00-11:00		
E-mail	mmert@eul.edu.tr				Office / Room No	AS232		
Phone					Phone	2684		
Teaching Assistant(s)	-				Office / Room No	-		
E-mail	-							
Course Objectives	This course introduces the main grammatical structures to the students and helps them to develop their listening, speaking, reading and writing skills as well as vocabulary and pronunciation. The students are provided with clear rules and example sentences. The lessons contain high frequency vocabulary that the students are likely to come across during their studies and future their future careers							
Learning Outcomes	1.The students will be able to understand and use English structures accurately to express themselves. 2. The students will be able to learn and use the vocabulary learnt during the lessons.							
Textbooks and/or	1 English File, Intermediate Plus, Student's Book, Christina Latham- Koenig, et al, Oxford University Press, Third Edition 2 English File, Intermediate Plus, Workbook, Christina Latham- Koenig, et al, Oxford University Press, Third Edition							
WEEK	Date	TOPICS					Reference no to learning outcomes	
Week 1		Obligation, Necessity					1.2	
Week 2		Prohibition, advice, DIY					1.2	
Week 3		can, could, be able to					1.2	
Week 4		vocabulary, things on the table					1.2	
Week 5		Phrasal verbs					1.2	
Week 6		verb patterns					1.2	
Week 7		have something done					1.2	
Week 8		at the hairdresser's					1.2	
Week 9		MID TERMS						
Week 10		Passive					1.2	
Week 11		Reported Speech					1.2	
Week 12		Past Perfect					1.2	
Week 13		be, do, have					1.2	
Week 14		Auxiliary + main verbs					1.2	
Week 15		Question tags					1.2	
Week 16		FINALS						
Evaluation Tools	Evaluation Tool	Quantity	Date		Weight in Total (%)	Weight in Semester Evaluation (%)		
	Final Exam	1			60	100		
	Semester Evaluation							
	Midterm(s)	1			40	100.0		
	Quiz(zes)							
	Project(s)							
	Online Homework(s)							
	Laboratory							
	Other							
*** Lifelong Learning Programme (LLP) ***					Language of Instruction:		English	
Evaluation Tool		Quantity			Student Workload Hours			
Theoretical Hours		13			13x3 39			
Midterm		1			1x1 1			
Self Study for midterm		1			39x1 39			
Final Exam		1			1x1 1			
Self Study for final		1			10x1 10			
TOTAL :					90			
Recommended ECTS Credit (Total Hours / 25) :							90/30=3	



EUROPEAN UNIVERSITY OF LEFKE

COMMON COURSES

SYLLABUS

2025-2026 Fall Semester

Course Code	Course Title	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
COMN180	COMPUTER LITERATURE	Compulsory	3	0	0	3	5	Mondays 18:00-20:50
Prerequisite		Prerequisite to			None			
Course Lecturer	Assist. Prof. Dr. Önder Onursal					Office Hours Schedule	Tuesdays 10:00 - 11:00, Fridays 14:00 - 16:00	
E-mail	oonursal@eul.edu.tr					Office / Room No.	AS103	
Phone	660 2000 2787					Phone		
Teaching Assistant						Office / Room No.		
E-mail						Phone		
Catalogue Descriptions	This course focuses on the computer applications which are necessary for every student to be able to use during his/her undergraduate study. Students will be covering the basic components of computers, such as Random Access Memory (RAM), Read Only Memory (ROM) and Central Processing Unit (CPU), relationship between these hardwares. Students will be able differentiate between different types of operating systems, application softwares and web-based applications. Students learn basic information about network connection and the types. Except those information, each student will learn how to save himself/herself against the viruses. All topics support the learning environment by lab sessions and each student will be able to use office applications.							
Objectives	The main purpose of this course is to provide students with an understanding of the basics of Computer System Unit and to teach the computer applicatin software tools used in modern Computing environment.							
Learning Outcomes	LO1 To have knowledge of current information technology devices LO2 To have knowledge of computer components and their functions LO3 To have knowledge of the internet and networks LO4 To develop an understanding of web usage and security issues LO5 To have knowledge of application software such as Word and PowerPoint and their use							
Textbooks and/or References	1 Shelly Cashman Vermaat, Discovering Computers Essentials, 1st. ed. [ISBN 9781337285117] 2018 1 Discovering Computers: Digital Technology, Data, and Devices (MindTap Course List) [ISBN-13978-0357675366] 2022 2 Shelly Cashman Vermaat, Discovering Computers Fundamentals, 3rd ed. [ISBN 1-4188-4372-5] 2007 3 Larry Long and Nancy Long, Computers IT in Perspective 10th ed. [ISBN 0-13-009479-X] 2002. 4 Shelly Cashman Vermaat, Office 2003, Premium ed. [ISBN 1-4188-5932-X] 2007							
WEEK	Date	TOPICS					Reference No - Section	
Week 1	22/09/2025	Introduction					2: 4--9 scv	
Week 2	29/09/2025	Types of Computers / Mobile Devices					2:18--34 scv	
Week 3	06/10/2025	Input Devices and Output Devices					2:188--219 scv	
Week 4	13/10/2025	Memory and Storage					1:290--296 scv / 1:368--395 scv	
Week 5	20/10/2025	Components of System Unit					1:276--302 csv	
Week 6	27/10/2025	System Software					1:409--435 csv	
Week 7	03/11/2025	Application Software / Word Processing Software					4: 140--172 scv	
Week 8	08-16/11/2025	Midterm(s)						
Week 9	17/11/2025	Communications and Networks / Presentation Software					2:10--18 scv	
Week 10	24/11/2025	Communication Devices / The Internet and the Web					3: 72--97 scv	
Week 11	01/12/2025	Types of Web Sites					1:71--84 scv	
Week 12	08/12/2025	Types of Websites / Digital Media on the web					2: 256--289 scv	
Week 13	15/12/2025	Digital Security, Ethics and Privacy					1:212--247 scv	
Week 14	22/12/2025	Word Processing Software					Lecture Notes	
Week 15	29/12/2025	Presentation Software					Lecture Notes	
Week 16	03-11/01/2026	Final Exam						
Evaluation Tools	Evaluation Tool	Quantity	Date			Weight in Total (%)	Weight in Semester Evaluation (%)	
	Final Exam	1	03-11/01/2026			50	50.0	
	Semester Evaluation					50		
	Midterm(s)	1	08-16/11/2025			50	50.0	
	Quiz(zes)							
	Project(s)							
	Homework(s)							
	Laboratory work(s)							
Attendance								
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English		
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours			
Theoretical lecturing hours (TLH)	14	42	Homework					
TLH self study	14	56	Project					
Quiz (Q)			Presentation					
Q preparation self study			Seminar					
Laboratory (L)								
L preparation work								
Midterm exam (ME)	1	24	Final exam (FE)	1	2			
ME preparation self study			FE preparation self study	1	25			
					TOTAL :	149		
					Recommended ECTS Credit (Total Hours / 30) :	4.97		

EUROPEAN UNIVERSITY OF LEFKE



**SYLLABUS
2025-2026 Fall Semester**

Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
CTE 401	Occupational Safety and Health	Elective	3	0	0	3	5	Monday 18.00 - 20.50
Prerequisite	-							Prerequisite to
Course Lecturer	Hasan Dilek					Office Hours Schedule	Tuesday : 11:00 - 12:50	
E-mail	hdilek-lau@eul.edu.tr					Office / Room No	AS301	
Phone	-					Phone	-	
Teaching Assistant(s)	-					Office / Room No	-	
E-mail	-							
Course Objectives	The principal aim of this course is to provide the theory and history of occupational health and safety and globally including the enforcement of laws that address occupational safety and health. In addition, students will gain an understanding on the roles and responsibilities of workers, unions and employers. This course also reviews other safety related issues and aspects of recognizing, evaluating, and understanding control of safety and health hazards in the workplace							
Learning outcomes	The student will be able to attain the following learning outcomes for this course:							
	1.	Gain an historical, economic, and organizational perspective of occupational safety and health						
	2.	Demonstrate a base of knowledge in the recognition and assessment of health and safety hazards in the workplace						
	3.	Identify the roles and functions of the occupational health and safety professional in the application						
	4.	Describe basic components of an effective company safety and health program including management commitment, employee involvement, hazard recognition and control and training.						
Textbooks and/or References	1.	Friend, M.A. and Kohn, J.P. (2007) Fundamentals of Occupational Safety and Health. 4th ed., Government Institutes. The Scarecrow Press, USA.						
	2.	Koradecka, D. (2010) Handbook of Occupational Safety and Health. Taylor and Francis Group. CRC Press, USA.						
	3.	Reese, C.D. (2016) Occupational Health and Safety Management – A Practical Approach. 3rd ed. Taylor and Francis Group. CRC Press, USA.						
	4.	Reese, C.D. (2017) Occupational Safety and Health – Fundamental Principles and Philosophies. Taylor and Francis Group. CRC Press, USA.						
WEEK	Date	TOPICS					Reference No - Section	
Week 1	22/09/2025	Introduction - History of Occupational Health and Safety					1: 1, 1: 2; 3: 1, 4: A1, 4: A2	
Week 2	29/09/2025	Safety Legislation					1: 2; 2: 1; 3: 2; 4: B7	
Week 3	06/10/2025	Compensation and Recordkeeping					1: 3; 3: 19; 4: C15	
Week 4	13/10/2025	Product Safety and Safety Related Business Laws					1: 4; 4: C11; 4: J54	
Week 5	20/10/2025	Accident Causes and Investigations					1: 5; 3: 9; 4: B9, 4: F33	
Week 6	27/11/2025	Personnel Involved in OCSH					3: 3; 4: C14, 4: D	
Week 7	03/11/2025	Ergonomic Risk Factors					2: 5.30; 3: 12; 4: J53	
Week 8	10/11/2025	Mid-term Exam						
Week 9	08-16.11.2025	Organizational Emergency Preparedness / External Force - Terrorism					1: 13, 1: 14; 3: 21; 4: J49, 4: J50	
Week 10	01/12/2025	Workplace Health and Safety - Physical Hazards					1: 15; 2: 3.14; 2: 3.15, 3: 11, 3: 23	
Week 11	08/12/2025	Workplace Health and Safety - Chemical Hazards					1: 15; 2: 3.6; 3: 11	
Week 12	15/12/2025	Workplace Health and Safety - Electrical Hazards					1: 15; 2: 3.11, 2: 3.12; 3: 11	
Week 13	22/12/2025	Workplace Health and Safety - Biological Hazards / Psychological Hazards					1: 15; 2: 2; 3: 11	
Week 14	29/12/2025	Workplace Health and Safety - Naturally Occurring Hazards, Controlling Hazards					1: 15; 3: 11, 2: 5.26; 4: H	
Week 15	03-11.01.2025	FINAL EXAM						
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)			
	Final Exam	1		50	50			
	Semester Evaluation				50			
	Mid-term Exam	1		50	50			
	Quiz(zes)							
	Project(s)	1						
	Homework(s)							
	Laboratory							
Other								
*** Lifelong Learning Programme (LLP) ***						Language of Instruction:		English
Evaluation Tool	Quantity	Student Workload Hours	Total	Evaluation Tool	Quantity	Student Workload Hours	Total	
Theoretical	14	3	42	Applied Hours				
Midterm	1	1	1	Final	1	1	1.0	
Quiz				Group Project				
Laboratory				Homework				
Atelier				Seminar				
Field Study				Presentation				
Other / Project				Self Study	13	7	91.0	
TOTAL :						135.0		
Recommended ECTS Credit (Total Hours / 30) :						5		

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Arts and Sciences"								
"Molecular Biology and Genetics"								
SYLLABUS								
2025-2026 Spring Semester								
Course Code	Course Name	Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
			T	A	L			
GEN102/AGRI102	Introduction to Molecular Biology and Genetics	Theory and Practice	3	0	0	3	6	Monday 09:00-12:00
Prerequisite		Prerequisite to						
Course Lecturer		Asst Prof Dr Osman Dadaş				Office Hours Schedule		
E-mail		odadas@eul.edu.tr				Office / Room No		ECZ020
Phone								
Teaching Assistant(s)						Phone		-
E-mail		Office / Room No						
Course Objectives	The aim of the module is to make the students familiar with a various range of topics. The topics that will be covered throughout the module include; the structure and function of biomolecules, regulation of gene expression, genetic inheritance through generations, organisation of prokaryotic and eukaryotic cells, DNA replication, DNA damage and repair, chemical bonds in biology, cell cycle mechanisms, protein synthesis, biological membranes and transport mechanisms, and cancer development. Students will also learn to understand how the genome is structured. To understand how the structure of biomolecules dictates their functions. To become familiar with transcription, translation and protein synthesis mechanisms. To understand the process of DNA replication, mutation and repair. To become familiar with prokaryotic and eukaryotic cells and cellular organelles. To become familiar with the bonds making up biomolecules such as covalent and non-covalent interactions. To become familiar with principles and mechanisms of meiosis and mitosis. To understand the structure and function of biological membranes and how molecules are transported across the membrane.							
Learning Outcomes	To understand how the genome is structured. To understand how the structure of biomolecules dictates their functions. To become familiar with transcription, translation and protein synthesis mechanisms. To understand the process of DNA replication, mutation and repair. To become familiar with prokaryotic and eukaryotic cells and cellular organelles. To become familiar with the bonds making up biomolecules such as covalent and non-covalent interactions. To become familiar with principles and mechanisms of meiosis and mitosis. To understand the structure and function of biological membranes and how molecules are transported across the membrane.							
Text Books / References	1	Molecular biology of the cell - 7th Edition						
	2	Lecture Slides						
	3							
	4							
WEEK	Date	TOPICS					Reference No - Section	
Week 1	02.02.2026	Introduction to the course					2	
Week 2	09.02.2026	Prokaryotic and eukaryotic cells					1, 2	
Week 3	16.02.2026	DNA replication					1,2	
Week 4	23.02.2026	DNA damage and repair mechanisms					1,2	
Week 5	02.03.2026	Bioenergetics					1,2	
Week 6	09.03.2026	Energy production and conversion					1,2	
Week 7	16.03.2026	Biological membranes and transport mechanisms					1,2	
Week 8	23.03.2026	Cell cycle mechanisms					1,2	
Week 9	30.03.2026	Cell Signalling					1,2	
Week 10	04-12.04.2026	Midterm Exam						
Week 11	13.04.2026	Cancer Development					1, 2	
Week 12	20.04.2026	Cell Death Mechanisms					1, 2	
Week 13	27.04.2026	Molecular biology techniques					1, 2	
Week 14	04.05.2026	Quiz						
Week 15	11.05.2026	Revision						
Week 16	16-25.05.2026	Final Exam						
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)			
	Final Exam	1		50				
	Semester Evaluation							
	Midterm(s)	1		40				
	Quiz(zes)	1		10				
	Project(s)							
	Homework(s)							
	Participation							
Presentations								
*** Lifelong Learning Programme (LLP) ***						Language of Instruction: English		
Evaluation Tool	Quantity	Student Workload Hours		Evaluation Tool	Quantity	Student Workload Hours		
Theoretical	14	42.0		Applied Hours				
Midterm	1	1.0		Final	1	2.0		
Midterm Study	1	10.0		Final Study	1	25.0		
Quiz	1	10.0		Project				
Laboratory				Homework				
Atelier				Seminar	1	10.0		
Field Study				Presentation				
Other	1	10.0		Self Study	14	70.0		
TOTAL :							180.0	
Recommended ECTS Credit (Total Hours / 30) :							6	



LEFKE AVRUPA ÜNİVERSİTESİ
ORTAK DERSLER
DERS İZLEME PROGRAMI / 2025-2026 Bahar Yarıyılı

Ders Kodu	Ders Adı	Ders Türü	Haftalık Ders Saati			Kredi	AKTS	Haftalık Gün ve Saati
			T	U	L			
ORTK106/T DİL101	TÜRK DİLİ I / TÜRKÇE	Zorunlu	2	0	0	2	5	
Önkoşul Dersi	Önkoşullu Dersi							
Öğretim Üyesi	Doç. Dr. Elnur AĞAYEV			Öğrenci Görüşme Gün ve Saati		Salı 14:00-16:50		
E-posta	eagayev@eul.edu.tr			Ofis / Oda No		Eğitim Fakültesi / AS225		
Telefon	392 660 2000/ 2915			Ofis / Oda No				
Öğretim Üyesi Yardımcıları				Telefon				
E-posta				Ofis / Oda No				
Dersin Amacı	Türk dilinin tarihi gelişimi ve temel gramer özellikleri, Yazılı ve sözlü anlatım türünün özellikleri; imlâ, noktalama ve vurgunun önemi; sözlü anlatım türleri ve örnekleri; yazıda plan, yapı ve paragraf; anlatım biçimleri, formal yazılar, yazılı anlatım türleri ve örneklerinin kavratılması							
Dersin Hedefleri	Türk dilinin tarihi gelişimi, temel gramer özellikleri, yazılı ve sözlü anlatımda dikkat edilmesi gereken hususlar, kompozisyon ve formal yazı türlerinin kuralları ve uygulamaya geçirilmesi							
Öğrenim Çıktıları	1.Türkçenin temel fonetik ve yapısal özelliklerini kavrar. 2.Türkçenin telaffuz özelliklerini uygular. 3.Türkçenin temel kelime dağarcığını edinir. 4.Türkçe metin okuma becerilerini geliştirir. 5.Günlük yaşamda sıkça kullanılan Türkçe diyalogları kullanabilir.							
Ders Kitabı ve/veya Kaynaklar	1 TDİL101/ORTK106 Ders notları ve slaytlar 2 Şerif Aktaş ve Osman Gündüz. Yazılı ve Sözlü Anlatım. Ankara: Akçağ Yayınları, 2011. 3 Türkçe Sözlük. Ankara: Türk Dil Kurumu Yayınları, Ankara 2024. 4 Yazım Kılavuzu. Ankara: Türk Dil Kurumu Yayınları, Ankara 2024. 5							
HAFTA	Tarih	KONULAR					Öğrenim Çıktılarına Referans	
1. Hafta	25/09/2025	Dil nedir? Dilin Özellikleri, Dünya Dilleri ve Sınıflandırılması					1,2,3,4	
2. Hafta	02/10/2025	Türkçenin Dünya Dilleri Arasındaki Yeri; Türkçenin İlk Yazılı Belgeleri: Orhun Yazıtları					1,2,3,4	
3. Hafta	09/10/2025	Divanu Lugati't-Türk, Kutadgu Bilig, Dede Korkut Hikayeleri					1,2,3,4	
4. Hafta	16/10/2025	Türk Dilinin Tarihi Dönemleri; Lehçe, Şive ve Ağız Nedir?					1,2,3,4	
5. Hafta	23/10/2025	Türkçenin Sesleri ve Ses Özellikleri. Türkçe Sözcüklerin Ses Özellikleri; Ünlüler ve Ünsüzler					1,2,3,4	
6. Hafta	30/10/2025	Yapım Ekleri ve Sınıflandırılması; Çekim Ekleri ve Sınıflandırılması					1,2,3,4	
7. Hafta	06/11/2025	İsim ve Sıfatlar. Genel Özellikler ve Örnekler					1,2,3,4	
8. Hafta	13/11/2025	Vize Sınavı						
9. Hafta	20/11/2025	Zamirler ve Zarflar. Genel Özellikler ve Örnekler					1,2,3,4	
10. Hafta	27/11/2025	İsim Tamlaması, Sıfat Tamlaması; Cümle nedir? Cümlenin Ögeleri, Cümle Tahlilleri					1,2,3,4	
11. Hafta	04/12/2025	Kompozisyon Nedir? Kompozisyon Yazım Kuralları Nelerdir?					1,2,3,4	
12. Hafta	11/12/2025	Formal Yazılar: Dilekçe Nasıl Yazılır? Noktalama İşaretleri ve Kullanımı					1,2,3,4	
13. Hafta	18/12/2025	Yazılı Anlatım Türleri ve Özellikleri; Konuşma Sorunları ve Giderilmesi; Sözlü Anlatım Türleri, Türkçede Söyleyiş Yanlışları ve Vurgu					1,2,3,4	
14. Hafta	25/12/2025	Ses Açma Çalışmaları ve Konuşma Egzersizleri; Konuşma Metni Hazırlanması ve Konuşmacının Dikkat Etmesi					1,2,3,4	
15. hafta		Final Sınavı						
Değerlendirme Araçları 1. Vize Sınavı 40% 2. Final Sınavı 60%	Ölçme Aracı	Adet	Tarih		Başarı Notuna Katkısı (%)	Yarıyıl İçi Değerlendirme Notuna Katkısı (%)		
	Final Sınavı	1	3 January 2026		60	0		
	Yarıyıl İçi Değerlendirmesi					100		
	Vize Sınavı	1	13 November 2025		40	40		
*** <i>Hayatboyu Öğrenme Programı (LLP)</i> ***								
Değerl. Aracı	Adet	Öğrenci İşyükü Saati			Değerl. Aracı	Adet	Öğrenci İşyükü Saati	
Teorik Saati	14	28.0			Uygulama Saati			
Ara sınav	1	1.0			Final Sınavı	1	1.0	
Kısa Sınav					Proje			
Laboratuvar					Ödev			
Atölye					Seminer			
Alan Çalışması					Sunum			
AS Bireysel Çalışma	7	28.0			FS Bireysel Çalışma	14	56.0	
TOPLAM :							114.0	
Tavsiye Edilen AKTS Kredisi (Toplam Saat / 25) :							5	

LEFKE AVRUPA ÜNİVERSİTESİ / ORTAK DERSLER

DERS İZLEME PROGRAMI



Ders Kodu	Ders Adı	Ders Türü	Haftalık Ders Saati			Kredi	ECTS	Haftalık Gün ve Saati
			T	U	L			
ORTK108	Atatürk İlkeleri ve İnkılap Tarihi	Zorunlu	2			2		
Öğretim Üyesi	Doç. Dr. Elnur AĞAYEV					Öğrenci Görüşme Gün ve Saati		
E-posta	eagayev@eul.edu.tr					Ofis / Oda No	Eğitim Fakültesi: AS 225	
Telefon	392 660 2000/ 2915					Telefon		
Öğretim Üyesi Yardımcıları								
Dersin Amacı	Bu derste; öğrencilere tarih bilinci verilecek, var olan tarih bilgileri pekiştirilecek ve "1923 Devrimi"nin felsefi ve düşünsel temelleri kazandırılmaya çalışılacaktır. Laik-demokratik Cumhuriyetin oturduğu dinamikler, devrimler ve devrimlerin Türk toplumu açısından taşıdığı önem, Büyük Asker ve Devlet Adamı Atatürk'ün hayat hikâyesinin yanı sıra, Türk Ulusu'nun Atatürk önderliğinde bağımsızlığını savunuşu, onun çok yönlü kişiliği ve liderlik özellikleri irdelenecektir. Ayrıca, genç ve dinamik Türkiye Cumhuriyeti'nin kuruluşu ve bu Cumhuriyet'in hızla yükselişi ve devrimlerin önemi vurgulanacaktır. Dönem sonunda Milli Mücadele sürecinin ve Türkiye Cumhuriyeti tarihinin öğrenciler tarafından derinlikli olarak anlaşılması hedeflenmektedir.							
Öğrenim Çıktıları	1. I. Dünya Savaşı sonrası gelişmeleri ve bu gelişmeler karşısında Mustafa Kemal ve arkadaşlarının tutumlarını analiz eder. 2. Atatürk Dönemi Türk Dış Politikasını Anlamak 3. II. Dünya Savaşı sırasında ve sonrasında Türkiye ve dünyadaki siyasi gelişmeler hakkında temel bilgilere sahip olacaktırlar. 4. Kıbrıs Tarihi hakkında genel bilgi sahibi olmak							
Ders Kitabı ve/veya Kaynaklar	Atatürk ve Türk İnkılap Tarihi, editör Fatma ACUN, Siyasal kitabevi, Ankara 2009 Başlangıcından Günümüze Türkiye Cumhuriyeti Tarihi, editör Temuçin Faik Ertan, Siyasal kitabevi, Ankara 2011. Bayram Bayraktar, Atatürk İlkeleri ve Türk İnkılap Tarihi, Detay yayıncılık, Ankara 2009. Türk İnkılap Tarihi ve Atatürk İlkeleri, editör E. Semih Yalçın, Berikan yayınevi, Ankara 2010.							
HAFTA	TARİH	KONULAR						1.1 Kaynak No - İlgili Bölüm
1. Hafta		Temel Kavramlar (İnkılap, İhtilal, İslahat, Darbe, Monarşi, Meşrutiyet, Oligarşi, Demokrasi, Cumhuriyet...), Osmanlı Devleti'nin Gerileme Sebepleri, I. Dünya Savaşı ve Osmanlı'nın Çöküş Süreci						
2. Hafta		Monrodoş Mütarekesi, İlk İşgaller / Milli Mücadele Öncesi Anadolu'da Genel Görünüm /Yararlı ve Zararlı Cemiyetler						
3. Hafta		Mustafa Kemal Paşanın 9. Ordu Müfettişliği Görevine Atanma Süreci / Havza ve Amasya Genelgeleri / Kongreler Dönemi / Amasya Mülakatı / Son Osmanlı Mebusan Meclisi ve Misak-ı Milli						
4. Hafta		TBMM'nin açılması ve İlk Faaliyetleri / Siyasi ve Askeri Mücadeleler Dönemi / I. Londra Konferansı / San Remo Konferansı / Sevr Antlaşması						
5. Hafta		Milli Mücadele Dönemi ve Bağımsızlık Savaşının İnsan, Silah ve Mali Kaynakları / Batı Cephesi Savaşları (I. İnönü-II. İnönü-Eskişehir-Kütahya Savaşı)						
6. Hafta		Baş Komutanlık ve Tekâlif-i Milliye / Sakarya Meydan Savaşı ve Büyük Taarruz						
7. Hafta		Mudanya Mütarekesi / Lozan Barış Antlaşması						
8. Hafta		ARA SINAVI						
9. Hafta		Atatürk Dönemi İç Politika / Saltanatın Kaldırılması / Cumhuriyetin İlanı / Halifeliğin İlgası /						
10. Hafta		Anayasal Hareketler / Teşkilat-ı Esasiye Kanunu / 1924 Anayasası						
11. Hafta		Çok Partili Hayata Geçiş Denemeleri / Şeyh Sait İsyanı / İzmir Suikastı / Menemen Olayı						
12. Hafta		Hukuk Alanındaki İnkılaplar / Eğitim ve Kültür Alanındaki İnkılaplar / Sosyal Alanda Yapılan İnkılaplar						
13. Hafta		Atatürk Dönemi Dış Politika / Saadabat Paketi / Balkan Antantı / Musul Meselesi ve Hatay'ın Anavatana Katılması						
14. Hafta		Atatürk İlkeleri (Cumhuriyetçilik / Milliyetçilik / Halkçılık/Devletçilik / Laiklik / Devrimcilik)						
Değerlendirme Araçları	Ölçme Aracı	Adet	Tarih	Başarı Notuna Katkısı (%)				
	Yarıyıl Sonu Sınavı			60				
	Yarıyıl İçi Değerlendirmesi			Yarıyıl İçi Değerlendirme Notuna Katkısı (%)				
	Ara Sınav(lar)			40				
	Kısa Sınav(lar)							
	Proje(ler)							
	Ödev(ler)							
	Laboratuvar							
Diğer								
*** Hayatboyu Öğrenme Programı (LLP) ***								
						Öğretim Dili:		
Değerl. Aracı	Adet	Öğrenci İşyükü Saati	Değerl. Aracı		Adet			
Teorik Saati			Uygulama Saati					
Ara sınav			Yarıyıl Sonu Sınavı			Öğrenci İşyükü Saati		
Kısa Sınav			Proje					
Laboratuvar			Ödev					
Atölye			Seminer					
Alan Çalışması			Sunum					
Diğer			Bireysel Çalışma					
TOPLAM :								
Birim Adı	but	kısa ad	Tip			Zorunlu		

EUROPEAN UNIVERSITY OF LEFKE- "Faculty of Agricultural Sciences and Technologies"



"Department of Horticulture"

SYLLABUS

2025-2026 Spring Semester

Course Code	Course Name		Course Type	Weekly Course Hours			Credits	ECTS	Weekly Time Schedule
				T	A	L			
AGRI 152	Botany		Compulsory	2	2	0	3	8	Wednesday 12:00-14:00
Prerequisite:	n/a		Prerequisite to:			n/a			
Semester:	2nd Semester	Frequency:	each spring term			Planned class size:		30 students	
Teaching methods:	Lectures, field practices, assignment and discussions					Duration:		1 semester	
Course Lecturer:	Assist. Prof. Dr. Murat Helvacı					Office Hours Schedule:	Monday 14:00-17:00, Tuesday 09:00-12:00, Wednesday 09:00-11:00;15:00-17:00, Friday 09:00-12:00;14:00-17:00		
E-mail	mhelvacı@eul.edu.tr					Office/Room No:	AS 240		
Phone	0 542 850 0336					Phone:			
Teaching Assistant:						Office/Room No:			
E-mail:						Phone:			
Course Objectives:	To give the informations about plant cell, vascular system of plants, photosynthesis, growth and development of plants, plant growth regulators, respiration, primitive plants, monocot and dicot plants, morphological characteristics of plants, important plant families, their classifications and ecologies.								
Learning Outcomes:	Learning outcomes of the lecture can be summarized as below: 1- Define botany and identify characteristics common to all plants Describe the complexity of plant cell structure and function Compare and contrast the structure and function of different groups of plants Describe various systems of classification and basic properties of organisms found in each Kingdom and classify common plants based on the binomial system of nomenclature Identify and describe the process and individual reactions of photosynthesis and respiration Describe the basic principles of plant production								2- 3- 4- 5- 6-
Programme Outcome Relations	PO1: 3 PO2: 1 PO3: 3 PO4: 2 PO5: 5 PO6: 1	PO7: 4 PO8: 2 PO9: 1 PO10: 1	(1) Strongly disagree; (2) Disagree; (3) Neither agree nor disagree; (4) Agree; (5) Strongly agree.						
Textbooks and/or References:	1	Byng, J. W. (2014). The Flowering Plants Handbook: A practical guide to families and genera of the world. Plant Gateway Ltd..							
	2	Jose, S. and Clennett C. (2019). Trees, Leaves, Flowers and Seeds (1st Edition). Darling Kinderley Publishing, 192p.							
	3	Bahadur, B., Rajam, M. V., Sahijram, L., & Krishnamurthy, K. V. (Eds.). (2015). Plant biology and biotechnology: Volume I: Plant diversity, organization, function and improvement (No. 11603). Springer India.							
WEEK	Date	TOPICS						Reference No - Section	
Week 1	04.02.2026	Plant Structures						3, 195	
Week 2	11.02.2026	The Plant Cell and Its Molecular Components						3, 50	
Week 3	18.02.2026	Photosynthesis and Respiration						3, 262/3, 295	
Week 4	25.02.2026	Flowers						2, 64	
Week 5	04.03.2026	Reproduction in Flowering Plants						2, 68	
Week 6	11.03.2026	Angiosperms and Gymnosperms						2, 10	
Week 7	18.03.2026	Differences between botany of fruit and vegetables						2, 134	
Week 8	25.03.2026	C3, C4 and CAM Plants						2, 12	
Week 9	01.04.2026	Leaf Anatomy and Morphology						1, 23	
Week 10	04-12 April 2026	Midterm(s)							
Week 11	15.04.2026	Meiosis and Fertilization						2, 68	
Week 12	22.04.2026	Root Anatomy						1, 12	
Week 13	29.04.2026	Plant Taxonomy						2, 10	
Week 14	06.05.2026	Seedless Plants						2, 12	
Week 13	13.05.2026	Plant Tissues						1, 8	
Week 15	16-25 May 2026	Final Exam							
Evaluation Tools	Evaluation Tool	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)				
	Final Exam	1	16-25 May 2026	50	100				
	Semester Evaluation			50					
	Midterm(s)	1	04-12 April 2026	40	80				
	Quiz(zes)								
	Project(s)								
	Homework(s)	1		10	20				
Laboratory									
Attendance									
*** Lifelong Learning Programme (LLP) ***			Language of Instruction:			English			
Evaluation Tool	Quantity	Student Workload Hours	Evaluation Tool	Quantity	Student Workload Hours				
Theoretical lecture hours (TLH)	14	28	Homework	1	6				
TLH Self Study	14	84	Mid-term Exam (ME)	1	2				
Quiz (Q)	0	0	ME preparation self study	1	8				
Q preparation self study	0	0	Seminar	0	0				
Laboratory (L)	0	0	Presentation	0	0				
L preparation self study	0	0	Project	0	0				
Applied Hours (AH)	14	28	Final Exam (FE)	1	2				
AH preparation self study	14	72	FE preparation self study	1	10				
TOTAL :					240				
Recommended ECTS Credit (Total Hours / 30) :					8.00				