



LEFKE AVRUPA ÜNİVERSİTESİ  
EUROPEAN UNIVERSITY OF LEFKE

**DEPARTMENT OF  
HORTICULTURE**

*PROGRAM INFORMATION*

[www.eul.edu.tr](http://www.eul.edu.tr)

## **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
		<b>TOTAL =</b>	<b>117</b>	<b>50</b>	<b>142</b>	<b>240</b>

**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 <sup>2</sup> )
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*

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## **COURSE CATALOGUE DESCRIPTIONS**

### **1<sup>st</sup> Semester**

#### **COMN109 Mathematics**

This course provides the revision of basic algebra, fractions and partial fractions. Linear equations, arithmetic expressions and simplification of algebraic expressions. Operations with surds and indices. Logarithms and methods for solving logarithmic functions. Techniques for solving quadratic functions. Graph sketching for quadratic equations in Cartesian plane. Solving linear, polynomial and rational inequalities. Parallel and perpendicular lines.

#### **COMN111 Chemistry**

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 and introduction to thermochemistry.

#### **COMN107 Economics**

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.

#### **COMN121 Physics I**

This course aims to introduce the fundamental concepts of motion necessary for students of different disciplines and to provide essential background for their profession. The course provides deep understanding about kinematics and dynamics of one dimensional, two dimensional, circular and rotational motion. Also, the course aims to show the students applications of course material to different fields.

#### **AGRI119 Introduction to Horticulture Profession**

This course aims to provide an overview about the horticulture profession, introducing students to its history, scope, and significance within the agricultural sector. Topics include the classification and economic importance of horticultural crops, fundamental principles of plant growth & development, and the role of horticulture in food security, environmental sustainability, and landscape design. Through lectures, discussions, and case studies, the course aims to equip students with a foundational understanding of horticulture as both a science and a profession, preparing them for further academic study or career entry in the field.

### **2<sup>nd</sup> Semester**

#### **AGRI114 Ecology**

Introduction to terms of definitions regarding ecosystems and their components, related topics. Ecology as the study of interrelationships among animals, plants, and their environment: ecosystems, biotic communities, population changes, and applied ecology. Study of ecological processes present in agricultural production systems, agroecosystems, ecosystem services to agriculture, footprints of various agricultural activities on the environment, ecosystem degradations are elaborated in some detail.

### **AGRI152 Botany**

In this course, the students are made familiar with the classification and their essential ecological function of plant kingdom. The relevant information will be given on 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 and their ecologies.

### **COMN114 Biochemistry**

This course is designed to provide knowledge on the bodily functions of carbohydrates, proteins, fats, minerals and vitamins which involves introduction to fundamentals of biochemistry, organic and inorganic molecules, major metabolic pathways, energy metabolism and pathological cases concerning the human metabolism.

### **AGRI102 Introduction to Molecular Biology and Genetics**

This course aims to convey knowledge with basic competencies related to molecular biology and genetics. The class starts with an overview over the features of DNA as the carrier of genetic information in cells and the mechanisms by which it is maintained over cell generations. In this course also the information about the fundamental mechanisms by which the information encoded in DNA is transcribed into RNA and then translated into proteins as functional units. Basic concepts of eukaryote genetics such as chromosome function and Mendelian heredity will be covered.

## **3<sup>rd</sup> Semester**

### **AGRI207 Soil Science**

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.

### **AGRI217 Phytopathology**

Objectives of the course are to equip the students with knowledge on the types and functions of disease making organisms and environmental factors that cause diseases in plants, mechanisms by which they cause disease, and methods of managing diseases and reducing damage.

### **AGRI251 Vegetable Production I**

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.

### **AGRI255 Basics of Fruit Production**

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).

### **COMN253 Statistics**

This course is designed to introduce the student to the fundamental concepts in statistics. Concepts like population and sample, descriptive statistical operations (mean, mode, median, variance and standard deviation, coefficient of variation standard error), types of distribution, probability, confidence limits and various types statistical tests

## **4<sup>th</sup> Semester**

### **AGRI204 Plant and Soil Laboratory**

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.

### **AGRI216 Plant Physiology**

Plant cells and water; bioenergetics and ATP synthesis; photosynthesis; growth and development of cells; plant hormones; allocation, translocation, and partitioning of photoassimilates and plant development and flowering and fruit development are the main topics of this course.

### **AGRI218 Entomology**

An introduction to the principles and theory of systematic zoology and comparative biology including species concepts and speciation; methods for higher classification including phylogenetic systematics, phenetics, and evolutionary taxonomy; and an introduction to zoological nomenclature are covered in this course.

### **AGRI226 Plant Biochemistry**

This course provides the basic knowledge on the vital processes including photosynthesis, respiration and other the biochemical pathways of metabolic and biosynthetic processes in plants.

### **AGRI228 Field Crops**

The objectives of this course are to give students the basic knowledge on the growth and development of field crops grown as staple food, fodder and fiber, their cropping systems and basic environmental requirements.

### **AGRI252 Vegetable Production II**

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, Amaryllidaceae, Liliaceae, Brassicaceae, Umbelliferae, Chenopodiaceae and Compositae families will be described.

## **5<sup>th</sup> Semester**

### **AGRI303 Field Practice I**

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.

### **AGRI313 Diseases of Horticultural Plants**

This course covers the topics on aetiology, symptoms, mode of spread, survival, epidemiology and management of diseases of horticulture crops; and the study of symptoms and host-parasite relationship of important diseases of fruits, vegetables, spices and condiments, plantations and horticultural crops.

### **AGRI315 Horticultural Techniques**

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.

### **AGRI351 Irrigation Techniques**

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.

## **6<sup>th</sup> Semester**

### **AGRI302 Field Practice II**

This course is the spring term continuation of Field Practice I 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.

### **AGRI306 Temperate and Subtropical Fruits**

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.

### **AGRI308 Pests of Horticultural Plants**

This course teaches the principles of plant pest management, covering morphology and life cycles of insects and other small animals and plant pathogens. Details integrated management of pests that commonly attack horticultural crops. Lab stresses diagnosis, chemical and non-chemical control of specific pests, and pesticide safety.

### **AGRI314 Plant Nutrition**

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.

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.

## **7th Semester**

### **AGRI400 Practical Internship**

The focus of this internship is to enable students to be trained for entry level positions in various areas of horticultural planning, organizing and production activities of government or private organizations. Students will get hands on experience and insights into the practical nature of the horticultural areas. The internship will give students an opportunity to apply classroom theories to practical issues by performing basic duties and responsibilities in the selected segment of the horticulture. Thus, students will be able to develop practical skills during the internship period, explore career opportunities, be exposed to various standards and conditions, and also provide students with the opportunity to start their own professional network.

### **AGRI409 Greenhouse Technologies**

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

### **AGRI471 Plant Breeding**

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.

### **AGRI481 Citriculture**

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.

## **8th Semester**

### **AGRI404 Viticulture**

To learn the theoretical and practical aspects of vine botany, its cultivation, vineyard establishment, seasonal management, propagation, irrigation, fertilization, training and pruning of grapevines, major cultivars, insect pest and disease control, harvest and post-harvest applications.

### **AGRI408 Greenhouse Productions**

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.

### **AGRI418 Post Harvest Physiology**

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.

### **AGRI422 Graduation Project**

Planning, preparation and completion of a project in the area of horticulture is required for graduation from the faculty. The student takes a topic of his/her choice and during class hours learns the fundamental parts of project planning and preparation. Then students apply their carry out projects as experiments or observations in the university farm or in private gardens or orchards under the supervision of the instructor for two semesters, covering most of the plant production season. Every project must be completed with a printed and bound formal Graduation Thesis including Introduction, Methods and Materials, Results and Discussion and Conclusions sections.

## **UNIVERSITY HTC ELECTIVE COURSES**

### **COMN106 Turkish**

To show the characteristics and rules of operation of Turkish language with examples; to give the students the ability and habit to express their feelings and thoughts accurately and effectively; developing vocabulary through written and oral texts; The aim of this course is to teach the rules of reading texts or the programs they listen to correctly. COMN106 course aims to provide basic Turkish reading, speaking and writing skills for international students.

Bu derste, yazı dilinin ve yazılı iletişimin temel özellikleri, yazı dili ile sözlü dilin arasındaki farklar, Yazılı ve sözlü anlatım; öznel anlatım, nesnel anlatım, paragraf türleri, metnin tanımı ve metin türleri, yazılı anlatım, yazılı anlatım, planlı yazma aşamaları (konu, konunun sınırlandırılması, amaç, bakış açısı, ana ve yan düşüncelerin belirlenmesi, yazma planı hazırlama, kağıt düzeni) bilgilendirici metinler üzerinde kuramsal bilgiler: örnekler üzerinde çalışmalar ve yazma uygulamaları, bir metnin özetini ve planını çıkarma, yazılı uygulamalardaki dil ve anlatım yanlışlarını düzeltme ve sözlü anlatım uygulamaları işlenmektedir.

### **COMN108 History**

The course provides a detailed exposure on the history of the construction of the Turkish Republic under the light of Kemal Atatürk's principles this course is designed for Turkish speaking students. COM108 is designed for non-Turkish speaking foreign students. The aim of the course is to introduce a brief history of Turkish Republic and Cyprus. Social, economic and political aspects and effects of Western Civilization on Turkey and Cyprus. Relations with Middle East.

Bu derste, Türk Ulusu'nun kurtarıcısı, Cumhuriyetin kurucusu, dünyanın en der yetiştirdiği asker ve devlet adamı, devrimci ve düşünür Atatürk'ün hayat hikayesinin yanı sıra, bir imparatorluğun çöküşü, Türk Ulusu'nun Atatürk'ün önderliğinde kahramanlık destanları yaratarak bağımsızlığını savunması, genç ve dinamik Türkiye Cumhuriyeti'nin kuruluşu ve bu Cumhuriyetin hızla yükselişi "Türk İnkılabı" adı verilen büyük atılım ve değişikliklerin ne kadar zamana sığdırıldığı ve bu inkılapların önemi vurgulanmakta ve Atatürk İlkeleri anlatılmaktadır.

### **COMN180 Computer Literacy**

This course is an introductory course to computers and their application; the basic components of computers; Random Access Memory (RAM), Read Only Memory (ROM), Central Processing Unit (CPU) and relationship between these hardware are introduced. Operating systems, application software (word processor, power point), Utility Software are introduced. Internet, network connections and the types, digital security and ethics are covered. Social networks and other web-based applications are introduced.

## **FOREIGN LANGUAGE ELECTIVE COURSES**

### **COMN191 Academic English I**

This course is intended for academically oriented students and it aims to bridge the gap between general and academic English. The course aims at developing the skills required for academic study, including note-taking, essay writing, as well as teaching strategies for undertaking research and dealing with unfamiliar academic vocabulary. The course also aims at teaching the features of guided writing, reading strategies such as predicting, skimming, and scanning. At the end of this course the students are expected to be able to; develop strategies, to improve the ability to comprehend complex academic texts, to develop strategies to produce more coherent writing and, make clear, appropriate, relevant notes from academic texts, and to adopt various approaches to deal with new or unknown vocabulary by practising effective use of dictionaries, and through making effective vocabulary records.

### **COMN192 Academic English II**

This course is the continuation of the COMN191 Academic English I course. Similar issues are focused on as in the former course with a higher tone of language. This course integrates all four language skills and teaches students how to integrate skills and content in real-world academic contexts. High-interest and intellectually-simulating authentic materials are used to familiarize students with academic content. The course also aims at developing the ability to participate in exchanges of information and opinions in the context of the specific field, and to write instructions, descriptions and explanations about topics in the related field. Extra importance is put on teaching student's terminology related to the specific field. (pre-requisite: COMN191)

## **TECHNICAL ELECTIVE COURSES**

### **AGRI253 Agricultural Mechanization**

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.

### **AGRI316 Agricultural Policy**

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. Students taking this course are expected to understand economic policies of agriculture and discuss policies regarding agricultural production and pricing at micro and also at macro level. Price determination, consumer theory, macroeconomics of agriculture, and international agricultural organizations, agricultural policies including common agricultural policy of the EU, agricultural policies in North Cyprus and Turkey will be the important topics of this course.

### **AGRI402 Agriculture and the Environment**

This course gives you an understanding of how agriculture interacts with the environment. There is an emphasis on sustainability and the ecological consequences of unsound management. It gives you the skills for a career related to sustainability in farming systems, environmental management or rural development.

### **AGRI425 Organic Farming**

Principles and practices of organic farming; farms as ecological systems; the certification process and agencies; organic matter management to support the soil food web and nutrient availability; managing biodiversity, crop rotations, plant competition, ground cover, and plant health; integrating crops and animals; organic animal husbandry practices, crop systems studies, farmer and researcher panel discussions.

### **AGRI453 Seed Technology**

The aim of this course is to provide students with a basic knowledge of seed industry in the world and the situation in Turkey. The course starts with the structure and properties of types of seeds, the quality properties of seeds (genetic, biological, physical, physiological and pathological features), and vegetable seed production methods in different crops. The major topics of the course are the production, certification, harvesting, separation and sizing, field and laboratory controls, drying, postharvest treatments, packaging, preservation and storage, commercialization and distribution of vegetable seeds. As case study, seed production in some major warm season and winter vegetable crops are presented.

### **AGRI430 Weed Science**

This course is a study of weeds and their control. Principles involving weed plant classification, weed biology and ecology, and plant and herbicide chemistry will be presented. Practices which prevent, eliminate, and control weeds in grain crops, legumes, vegetables, fruit, pasture, and other crop ecologies will be discussed. Herbicide formulations and safe herbicide use will be taught.

### **AGRI452 Horticulture and Environment**

Fluctuations and regulations of temperature, light, water, carbon dioxide and pollutants in natural and controlled environments. Effects upon plant growth and development. Adaptive mechanisms. Significance of air ions, electromagnetic fields, and other geophysical factors.

### **OSHE201 Occupational Safety and Health**

This course provided information on the theory and history of occupational health and safety, and enforcement of laws that address occupational safety and health globally. It also aims to guide students in understanding 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.

## **FREE ELECTIVE COURSES**

### **CFE201 Leadership and Management**

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.

### **CFE202 Environment and Sustainable Development**

This course provides information on nature and environment along with sustainability concept, as well as guides students to gain awareness about environmental problems. It aims to inform students about the daily practices that will lead to a more sustainable living. Additionally, knowledge about the global and social effects of all practices on health, environment, safety, and current issues related to the field of their area of study and awareness of the legal consequences of their specific area of practices to solutions are covered.