

T.C.
FIRAT UNIVERSITY
KEBAN VOCATIONAL SCHOOL
DEPARTMENT OF PARK AND GARDEN PLANTS
LANDSCAPE AND ORNAMENTAL PLANTS CULTIVATION PROGRAM

COURSE PLANS

1ST CLASS FALL SEMESTER						
Lesson Code	Lessons	C/S	T	P	Cr	ECTS
TRD109	Turkish Language I	C	2	0	2	2
YDİ107	English I	C	2	0	2	2
FU101	Introduction to University Life	C	2	0	2	2
MAT103	General Mathematics	C	2	0	2	3
KPS101	Soil Knowledge	C	2	0	2	4
KPS103	Landscape Ecology	C	2	0	2	5
KPS105	Botanic	C	2	0	2	4
KPS107	Plant Identification	C	2	1	3	4
KPS109	Computer Aided Landscape Drawing Technique	c	1	2	2	4
Total			17	3	19	30

*C: Compulsory, E: Elective, T: Theoretical, P: Practice, Cr: Credit, ECTS: European Credit Transfer System.

1ST CLASS SPRING SEMESTER						
Lesson Code	Lessons	C/S	T	P	Cr	ECTS
TRD110	Turkish Language II	C	2	0	2	2
YDİ108	English II	C	2	0	2	2
KPS102	Irrigation Information	C	2	1	3	4
KPS104	Plant Production Techniques	C	2	2	3	6
KPS106	General Microbiology	C	2	2	3	6
KPS108	Ornamental Plant Nursery Operation and Establishment	C	2	0	2	3
KPS110	Ground Cover Plants and Grass Area Establishment	C	2	1	3	4
KPS112	Project Drawing Technique	C	1	2	2	3
Total			15	8	20	30

2 ND GRADE FALL SEMESTER						
Lesson Code	Lessons	C/S	T	P	Cr	ECTS
AİT209	Atatürk's Principles and Revolution History I	C	2	0	2	2
KPS201	Ornamental Plant Diseases and Pests	C	2	2	3	4
KPS203	Cut Flower Cultivation	C	2	2	3	5
KPS205	Urban Landscape Planning	C	2	2	3	5
KPS207	Professional Practice	C	0	2	1	6
KPS209	Landscape Maintenance and Repair	C	2	2	3	5
	ELECTİVE LESSONS (*)	C	2	0	2	3
Total			12	10	17	30
ELECTİVE LESSONS (*)						
KPS211	Measurement Information	E	2	0	2	3
KPS213	Occupational Health and Safety	E	2	0	2	3

*Seçmeli derslerden birinin seçilmesi zorunludur. E: Elective

2 ND GRADE SPRİNG SEMESTER						
Lesson Code	Lessons	C/S	T	P	Cr	ECTS
AİT210	Atatürk's Principles and Revolution History II	C	2	0	2	2
KPS202	Plant Nutrition and Fertilization	C	2	2	3	6
KPS204	Park and Garden Arrangement	C	2	2	3	7
KPS206	Indoor and Outdoor Ornamental Plant Cultivation	C	2	2	3	6
KPS208	Potted Ornamental Plant Cultivation	C	2	2	3	6
	ELECTİVE LESSONS (*)	E	2	0	2	3
Toplam			12	8	16	30
ELECTİVE LESSONS (*)						
KPS210	Weeds and Their Control	E	2	0	2	3
KPS212	Entrepreneurship	E	2	0	2	3

*Seçmeli derslerden birinin seçilmesi zorunludur. E: Elective

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COURSE CONTENTS

COURSES (TERM I)	O/E	T	P	C	ECTS
TRD109 TURKISH LANGUAGE I	0	2	0	2	2
Language, languages, Turkish Language, grammar, phonetic features of Turkish, phonetic and structural features of Turkish, structural features of Turkish, sentence knowledge, spelling rules and punctuation marks, application of spelling rules, application of punctuation marks.					
YDİ107 ENGLISH I	0	2	0	2	2
Verb Be, statements and questions, countries and nationalities, present simple tense, statements, verbs for daily routines, present simple questions, free time activities, verb Have / Has, family tree, there is / there are, places in a town, present continuous tense, rooms and furniture, can / can't, months of the year, present simple tense, present continuous tense, jobs.					
FU101 INTRODUCTION OF UNIVERSITY LIFE	0	2	0	2	2
Areas of responsibility, city and campus promotion, student societies and movements, career center, departments, life on campus, career planning and time management, personal care and hygiene, healthy life and sports, disaster and emergencies and management, first aid, written and verbal communication, traffic and environmental awareness, academic title ranking and consultancy, domestic and international higher education and student mobility, quality policies, college activities, project information, student projects, student affairs automation, distance education, continuing education center, disciplinary affairs, regulations, directives and senate decisions, grading system, course passing, mobile technologies, short film techniques.					
MAT103 GENERAL MATHEMATICS	0	2	0	2	3
Ability to perform arithmetic and algebraic operations; calculate the exponent and root of a real number; solutions of radical and fractional equations and quadratic equations, real and complex numbers, quadratic equations with one unknown; root coefficient relations and solution of inequalities in quadratic equations; solution of equations and inequalities, trigonometric ratios, complex numbers, solution of determinant and linear equations, equation of a straight line in the plane, vectors, logarithm.					
KPS101 SOIL KNOWLEDGE	0	2	0	2	4
Soil formation and affecting factors, decomposition in soil, soil structure. Soil structure, clay, oxides and hydrostics, organic matter of soil, soil organisms, cation exchange capacity, soil acidity, soil water. Brief introduction of nutrients, macro elements, micro elements.					
KPS103 LANDSCAPE ECOLOGY	0	2	0	2	5
Introduction to landscape ecology and its historical development, basic concepts of landscape ecology, natural ecological factors forming the structure of the landscape and their relationships, climatic factors, introduction, ecological importance and functions in the landscape, soil factor; introduction, ecological importance and function in the landscape, relief factor; introduction, ecological importance and function in the landscape, biological factors and their ecological importance. Harmful ecological factors originating from human effects and their pressures on the landscape, Air pollution; introduction, ecological importance and mutual relationships with landscape elements, Water pollution; introduction, ecological importance and mutual relationships with landscape elements, Homework submission, Soil pollution; introduction, ecological importance and mutual relationships with landscape elements, Radioactive pollution; introduction, ecological importance and mutual relationships with landscape elements, Student presentation, Noise pollution; introduction, ecological importance and mutual relationships with landscape elements.					
KPS105 BOTANİC	0	2	0	2	4
Classification of botany, Cytology (Cell science: protoplasm, cytoplasm, cell membrane, nucleus, chromosomes, cell division, etc.), Histology (Tissue science: intercellular spaces, classification of tissues), Organography (Root, stem, leaf), Plant systematics, Reproduction in plants (asexual and sexual reproduction, structure of the flower, structure of the ovule, symmetry in flowers, flower formula and diagram, inflorescences, pollination, fertilization, fruit, fruit types).					
KPS107 PLANT IDENTIFICATION	0	2	1	3	4
The relationship between landscape architecture and botany, definition of some concepts, plant systematics, parts that can be used in plant identification such as roots, stem and leaf, their properties, parts that can be used in plant identification such as flower and fruit properties, importance and function of trees in landscape architecture, botanical and ecological requirements of open-seeded coniferous trees, their habitats and natural distribution, varieties, aesthetic and functional properties, places of use in landscape and their properties.					
KPS109 COMPUTER AIDED LANDSCAPE DRAWING TECHNIQUE	0	1	2	2	4
Loading the AutoCAD program, using the AutoCAD program, having the AutoCAD application done, adapting the AutoCAD application to the areas where landscaping will be done, and giving appropriate drawing assignments.					
COURSES (TERM II)	O/E	T	P	C	ECTS
TRD110 TURKISH LANGUAGE II	0	2	0	2	2
Reading with comprehension and pleasure, acquiring the habit of reading, evaluating the text read, written expression, limiting a subject, making plans on this subject, writing sentences as paragraphs, written expression techniques and their application, introduction and application of written expression types, preparation of scientific review articles, verbal expression, ways to be successful in oral expression, forms and application of oral expression, types and application of oral expression.					
YDİ108 ENGLISH I II	0	2	0	2	2
Past simple, verb BE, events and places to go, past simple actions, school subjects, past simple questions, parts of the body, future tense, be + going to, travel, countable and uncountable nouns, foods, clothes, weather, adjectives, comparatives adjectives, superlatives adjectives, geographical features.					
KPS102 IRRIGATION INFORMATION	0	2	1	3	4
Introduction of systems used in ornamental plant cultivation and landscaping areas, advantages and disadvantages of these systems, establishment of the system, introduction of system parts.					
KPS104 PLANT PRODUCTION TECHNIQUES	0	2	2	3	6
Production environments of ornamental plants, theoretical and practical explanation of different production techniques in these environments. Growing techniques of ornamental plant seedlings and saplings.					

KPS106 GENERAL MICROBIOLOGY	0	2	2	3	6
Definition and scope of microbiology, in general, information about bacteria, fungi and viruses, as well as nutrition, development and reproduction of plant pathogens such as bacteria, fungi, viruses, spiroplasmas, phytoplasmas, pathogen-plant relationships, infections. In laboratory studies, introduction of laboratory tools and equipment, survey work, sampling, prevention of contamination in samples, sterilization, preparation of nutrient medium, preparation of dilution series, cultivation, incubation, colony morphology, obtaining pure culture (single spore method), preparation of preparations, examination and diagnosis under microscope, methods of storing pathogens.					
KPS108 ORNAMENTAL PLANT NURSERY BUSINESS AND ESTABLISHMENT	0	2	0	2	3
The structuring of seedling enterprises and organizations, introduction of open and closed area nursery enterprises, information on location selection, climate characteristics, soil conditions, water needs, economic conditions, establishment studies. The general situation of the seedling and seedling sector in our country. The importance of seeds in seedling and seedling cultivation, the media and characteristics used in seedling cultivation. The use of grafted seedlings in vegetable cultivation. The introduction of modern seedling production facilities in the use of grafted seedlings in vegetable cultivation.					
KPS110 GROUND COVER PLANTS AND GRASS AREA FACILITY	0	2	1	3	4
Introduction of ground cover plants used in landscape planning and implementation studies, their ecological requirements and areas of use, introduction of grass plants, their ecological requirements, aesthetic importance, stages of grass area establishment and maintenance of grass areas.					
KPS112 PROJECT DRAWING TECHNIQUE	0	1	2	3	3
Project description-general information, project types, information on projects with different features and scales, project reading and application technique, scale concept, north sign, project stages, project process, taking cross-sections in projects and preparing project covers, residential garden arrangement, residential landscaping project, sample studies, display techniques used in landscape projects.					
COURSES (TERM III)	O/E	T	P	C	ECTS
AİT209 ATATURK'S PRINCIPLES AND HISTORY OF REVOLUTION I	0	2	0	2	2
Definitions of the terms revolution and history, world revolutions and the place of the Turkish revolution within them, characteristics of the Turkish revolution, Armenians under the Ottoman Empire, The Ottoman Empire in I. World War and the results of the war, the Armistice of Mudros and the occupation of the Empire, the beginning of the War of Independence, Atatürk's place and goal in the War of Independence, the Amasya circular, National congresses, Istanbul-Anatolia relations, the opening and first works of the Turkish Grand National Assembly, internal rebellions prevention, wars on the Eastern front, national fronts (Kuvayı milliye), Western front, the first international agreements made by the Turkish Grand National Assembly, the Lausanne Peace Treaty.					
KPS201 ORNAMENTAL PLANT DISEASES AND PESTS	0	2	2	3	4
Living and non-living disease agents seen in ornamental plants, fungal, bacterial, viral diseases and pests among living disease agents and methods of combating them that do not harm economic and environmental health.					
KPS 203 CUT FLOWER CULTIVATION	0	2	2	3	5
Detailed information about carnation cultivation and rose cultivation. Gladiolus cultivation, homeland, botanical characteristics, varieties, gladiolus bulb production, Flower bulb production methods, Kralen planting, flower production, climate requirements, harvest and marketing, Lily cultivation, homeland, varieties, propagation methods, Lily production as cut flower and potted production, Ecological requirements of lily, preparation, Planning of flowering time in lily, diseases and pests, harvest and marketing, Gysophila cultivation, botanical characteristics, varieties, Ecological requirements of Gysophila, production techniques, diseases and pests, harvest and marketing, Poinsettia cultivation, botanical characteristics, production methods, Diseases and pests of Poinsettia, harvest and marketing, Orchid cultivation, varieties, climate requirements, Orchid production methods, diseases and pests, harvest.					
KPS205 URBAN LANDSCAPE APPLICATION	0	2	2	3	5
Planning, urbanization problems, importance of urban open green areas, urban open green area presentation preparation, urban green area project design, urban landscape design, urban green area classification, project implementation, urban open green area presentation, project implementation.					
KPS207 PROFESSIONAL PRACTICE	0	0	2	1	6
Preparing and presenting a presentation about the internship, reviewing the prepared internship notebook and evaluating it with questions.					
KPS209 LANDSCAPE MAINTENANCE REPAIR	0	2	2	3	5
Pruning of trees, shrubs and bushes in the fall season in landscape areas; shape pruning, yield pruning, rejuvenation pruning. Pruning time and shape of urban trees. Top collapse in trees, cavity filling processes and maintenance. Children's play sets in parks and gardens and maintenance application. The importance of felting in grass and what to do.					
KPS211 MEASUREMENT INFORMATION	E	2	0	2	3
Definition, map and plan, units of measurement, scale, measurement errors, types of errors, accuracy criteria of measurements, simple measuring instruments, vertical descent and ascent, application of lines, measurement of lengths, methods of map acquisition with simple measuring instruments, area calculations, vertical coordinate systems and basic homework. horizontal control points (polygon), height measurements, tacheometry and tacheometric acquisition, volume calculations, construction operations, horizontal control points (triangulation), special topics.					
KPS213 OCCUPATIONAL HEALTH AND SAFETY	E	2	0	2	3
The concept of occupational safety, the economic importance of occupational safety studies, employer and employee duties and responsibilities, the Occupational Health and Safety Law No. 6331, definition of occupational accidents, causes and prevention methods, fire and fire extinguishing methods, occupational health and safety in hand tools, physical, chemical, biological risks, hazards and types of hazards, methods and solutions in accident investigations, occupational health and safety application principles, appropriate job placement, evaluation of workplace environmental factors, analysis of occupational health and safety risks, periodic control examination, basic first aid information, occupational diseases and legal liability, emergency plans. Environmental risk assessment methods and calculations.					
COURSES (TERM IV)	O/E	T	P	C	ECTS
AİT210 ATATURK'S PRINCIPLES AND HISTORY OF REVOLUTION II	0	2	0	2	2
Declaration of the Republic, the first constitution, Atatürk's principles and revolutions (revolutions in social, economic, administrative, cultural and other fields), Turkey and the world states during the period of single-party governments, the Republican period, internal rebellions, the foreign policy of the Government of the Republic of Turkey, treaties, the Orient and the Armenian issue, attempts at transition to the multi-party era, Atatürk's death, II. World War and Türkiye, developments in Türkiye's foreign policy, the Middle East and the Republic of Türkiye, Türkiye's principles and goals in the period of rapid progress.					
KPS202 PLANT NUTRITION AND FERTILIZATION	0	2	2	3	6
Deficiency symptoms of plant nutrients required to obtain healthy, high quality and high yield products and what to do for treatment, fertilizer types used in landscaping areas and ornamental plant cultivation, their contents, uses, mixing conditions, fertilization practices.					
KPS204 PARK AND GARDEN DESIGN	0	2	2	3	7

Definition of park, garden and landscape architecture, ancient garden arts, concept and examples of scale, ways of displaying plants in projects, providing information about poisonous plants, design stages, techniques for using computer programs that facilitate drawing and preparation of sample projects.					
KPS206 INDOOR AND OUTDOOR ORNAMENTAL PLANT CULTIVATION	O	2	2	3	6
Introduction, use and production of indoor and outdoor ornamental plants.					
PSB208 POTTED ORNAMENTAL PLANTS CULTIVATION	O	2	2	3	6
General production, maintenance and fertilization processes of potted ornamental plants.					
KPS210 WEEDS AND THEIR CONTROL	E	2	0	2	3
The meaning and definition of weed, introduction of weeds used in landscaping, introduction of harmful weeds grown in landscaping areas and ornamental plant areas, the damage they cause in these areas and their control.					
KPS212 ENTREPRENEURSHIP	E	2	0	2	3
Information on entrepreneurship, getting to know the entrepreneur, testing entrepreneurial characteristics, innovation and invention, business idea development and creativity exercises (brainstorming), starting a business, the concept and elements of a business plan (market research, marketing plan, marketing techniques, making promotions with the right tools, production plan, management plan, financial plan), studies to reinforce the elements of a business plan (market research, marketing plan, production plan, management plan, financial plan), points to be considered in writing and presenting a business plan, filling out KOSGEB documents.					

NOT: Birinci sınıfın bahar yarıyılı yaz döneminde 30 iş günü staj yapılması zorunludur.