IŞIK ÜNİVERSİTESİ, GÜZEL SANATLAR FAKÜLTESİ,
PEYZAJ MİMARLIĞI LİSANS PROGRAMI **DERS İÇERİKLERİ**

PEM 101 Introduction to Landscape Architecture *(3+0+0) 3 AKTS: 4*
(Peyzaj Mimarlığına Giriş)
Concepts of Landscape Architecture. systematic classification of Landscape and Landscape Architecture. Principles of Landscape Planning. Landscape elements and materials in landscaping applications, material resources and their classification.

PEM 111 Basic Design *(2+0+2) 3 AKTS: 4*
(Temel Tasarım)
Design elements, point, line, plane, space, texture, color, light and form. The concept of space. Spatial organization in two and three-dimensional studies. Space geometry in architecture. Pattern information, line, contour drawing, drawing of movement. Colors, psychological effects of colors. Three-dimensional color applications

GSE 141 Comparative History of Western Art *(3+0+0) 3 AKTS: 5*
(Karşılaştırmalı Batı Sanatı Tarihi)
Definition of art, change and differentiation of art in time based on civilizations, periods, movements, technical, technological, sociological factors identifying them. Western Art: Prehistoric, Mesopotamia, Egypt, Greek, Rome, Romanesque, Gothic, Renaissance, Baroque, Industrial Revolution, Romanticism, Realism, Impressionism, Expressionism, Art Nouveau, Dadaism, Cubism, Futurism, De Stijl, Surrealism, Abstract Expressionism, Pop Art, Op Art, and Post-Modernism.

GSE 151 Basic Photography *(2+0+0) 2 AKTS: 4*
(Temel Fotoğrafi)
Communication of theoretical information on theory, method and tools of the phenomenon of photography to be the basis of all design and adaptation projects. Definition of the phenomenon of photography and concept. Historical process: Camera Obscura. Camera (analog / digital) and operating principles. Eye/machine relation. Applied studies.

GSE 152 Introduction to Computers *(3+0+0) 3 AKTS: 5*
(Bilgisayara Giriş)
Computers, developments, programming and general information about internet, basic softwares and applications. Creating the infrastructure program with the Google Sketchup program in two and three dimensional designs, and presentation and use of Photoshop.

TUR 101 Turkish I *(2+0+0) 2 AKTS: 2*
(Türkçe I)
Description of communication and language,its relation with ideas, culture, society and literature.Characteristics of Turkish with samples, types of expressions and expression disorders.

ING 101 General English I *(3+1+0) 3 AKTS: 5*
(Genel İngilizce I)
Gaining the four main language skills (reading, writing, listening and speaking) in the elementary level. Learning grammatical structures and vocabulary related to this level. Practicing theoretical grammar and grammar rules in writing and speaking exercises with basic sentences

PEM 112 History of Landscape Art *(3+0+0) 3 AKTS: 4*
(Peyzaj Sanatı Tarihi)
Landscape art in the First, Middle and New Ages, Egypt, ancient Iran, the Aegean and the Greek, Medieval, Islamic, Turkish, Renaissance, Baroque, Far East, China, Japan, British styles and contemporary Landscape Design.

PEM 122 Plant Materials I *(2+0+2) 3 AKTS: 4*
(Bitki Materyali I)
The most common and important coniferous species in Landscape Architecture. Their geographic distribution. Morphological characteristics.

PEM 131 Ecology *(3+0+0) 2 AKTS: 5*
(Ekoloji)
General ecology, environment, habitat, ecology, ecosystem concepts; ecological elements and functions of the interaction of biotic and abiotic environment, ecological requirements of plants. Ecological balances. Introduction to ecological planning.

PEM 121 Perspective *(2+0+2) 3 AKTS:5*
(Perspektif)
Parallel and taper perspective. Perspective of horizontal and oblique lines via projections and guide lines. One-point, two-point, three-point perspectives.

TUR 102 Turkish II *(2+0+0) 2 AKTS: 2*
(Türkçe II)
Characteristics of expressions, types of writing and communication with selected text examples from the masters of the world and Turkish literature.

ING 102 General English II *(3+1+0) 3 AKTS: 5*
(Genel İngilizce II)
Gaining the four main language skills (reading, writing, listening and speaking) in the elementary level. Learning grammatical structures and vocabulary related to this level. Practicing theoretical grammar and grammar rules in writing and speaking exercises with basic sentences.
Önkoşul: ING 101

PEM 201 Landscape Project I *(2+0+2) 3 AKTS: 7*
(Peyzaj Projesi I)
Residential Landscaping Project: Landscape design and planning stages in house gardens. Site selection and survey studies. Development of landscape design alternatives. Preliminary Design. Application projects. Planting design. Irrigation, lighting and street furniture projects. Details.

PEM 211 Constructive Landscape Elements *(2+0+2) 3 AKTS: 5*
(Yapısal Peyzaj Elemanları)
Architectural and structural landscape elements: the upper canopy elements, elements of the siege, the city accessories, seating groups and street furniture, lighting elements. Pave elements and the infrastructure. Details.

PEM 221 Plant Material II *(2+0+2) 3 AKTS: 5*
(Bitki Materyali II)
The most widely used and important broad-leaved species in Landscape Architecture. Their geographic distribution. Morphological characteristics. Time and duration of flowering. Habitat characteristics. Evaluation of their usage in landscaping.

PEM 231 Landscape Construction Materials (2+0+2) 3 AKTS: 5
(Peyzaj Yapı Malzemeleri)
Building-material-design relationships. Basic properties of building materials. Binder materials; Functional building materials. Heat-absorbing materials. Water and steam insulation materials. Core of the wall and interior and exterior coatings. Furniture and bedding materials. Ceiling coverings. Roof covering materials. Floor components and surface coatings.

HIST 101 History of Turkish Republic I *(2+0+0) 2 AKTS: 2*
(Türkiye Cumhuriyeti Tarihi I)
The characteristics of Turkish Republic and Ataturk's revolutions in the context of culture, ideology and history.

PEM 202 Landscape Project II *(2+0+2) 3 AKTS: 7*
(Peyzaj Projesi II)
Housing estate landscape project: Housing estate presentation models. The human environment interaction in housing estate. Norms and quality criteria of open areas and green spaces in housing estate areas. Examples of housing estate area of our country and the world. Site selection and survey studies. Landscape development of design alternatives. Land use decisions. Preliminary project. Structural landscape application project; Planting design, irrigation, lighting and street furniture projects. Details.
Prerequisite: PEM 201

PEM 204 Surveying *(2+0+2) 3 AKTS: 5*
(Ölçme Bilgisi)
Area and map concepts. The units of measure. Tools and materials used in horizontal and vertical measurements. Horizontal and vertical measuring methods. Coordinate calculations. Basic solutions in poligonal measurements and coordinate calculations.

PEM 222 Plant Material III *(2+0+2) 3 AKTS: 5*
(Bitki Materyali III)
Groundcovers and their uses. Lawn and herbaceous plants as groundcovers. Other herbaceous and woody groundcovers. Ground cover plant species and usage principles for the areas of special quality.

HIST 102 History of Turkish Republic II *(2+0+0) 2 AKTS: 2*
(Türkiye Cumhuriyeti Tarihi II)
Analysis of Turkey's intellectual basis; political, economic and cultural movements of the republican period. Nationalism and nation-state in Turkey.

PEM 301 Landscape Project III *(0+0+6) 3 AKTS: 8*
(Peyzaj Projesi III)
Landscape Project of neighborhood or city parks: Survey studies. Development of landscape design alternatives. Site selection and land use decisions. Preliminary project. Preparation of landscape application projects. Plantation plan and details.
Prerequisite: PEM 201, PEM 202

PEM 311 Planting Design *(2+0+2) 3 AKTS: 6*
(Bitkisel Tasarım)
Plant design and its characteristics different from other visual art forms. Visual properties of plants and design potentials. Ecological durability, aesthetics and composition of plants. Plant design features, line, form, texture and color. Composition options. Examination of the design elements of plants.

PEM 321 Plantation Techniques I *(2+0+2) 3 AKTS: 5*
(Plantasyon Tekniği I)
Nurseries and greenhouses; site selection, planning, establishment and organization. Ecological conditions of greenhouses. Plant production environments. Irrigation. Production and maintenance of vegetative and generative ways. Standardization and marketing.

PEM 331 Computer Aided Design I *(3+0+0) 3 AKTS: 6*
(Bilgisayar Destekli Tasarım I)

Explanation of computer-aided design process with examples. General introduction to AutoCAD and Sketch-Up softwares. The use of AutoCAD and Sketch-Up. Implementation of these softwares in Landscape Architecture design.
Prerequisite: GSE 152

PEM 302 Landscape Project IV *(0+0+6) 3 AKTS: 9*
(Peyzaj Projesi IV)
The city park and green belt landscape projects: Recreation concept. The requirement for recreation activity space and densities, determination of the natural and cultural data; visitor data and the determination of preferences for the natural landscape elements, recreational suitability and usability value of the field. Landscape development of design alternatives. Land use decisions. Preliminary design and preparation of landscape application projects. Plantation plan. Irrigation and lighting projects. Details.
Prerequisite: PEM 201, PEM 202, PEM 301, PEM 311

PEM 312 Landscape Application Techniques *(2+0+2) 3 AKTS: 6*
(Peyzaj Uygulama Tekniği)
Implementation of landscape projects in the field: Levelling studies, coding, excavation and fill calculations and applications. Applications of circulation system and roads (pedestrians, bicycles and motor-ways). Applications of irrigation, lighting, concrete and wooden bridges. Herbal applications. Detailed applications. Site management and survey report.

PEM 322 Plantation Techniques II *(2+0+2) 3 AKTS: 5*
(Plantasyon Tekniği II)
Survey. Selection of species and planting design. Plantation application studies. Tree transplantations. Plantation designs with special quality and their applications. Maintenance and repair.

PEM 401 Peyzaj Projesi V *(0+0+6) 3 AKTS: 9*
(Landscape Project V)
Coastal Landscape Planning: special landscape planning principles on sea, lake and river shores. Development of landscape design alternatives. Land use decisions. Preliminary design and implementation of landscape projects. Plantation plan. Irrigation and lighting projects. Details.
Prerequisite: PEM 201, PEM 202, PEM 301, PEM 302.

PEM 411 Rural Landscape Planning *(2+0+2) 3 AKTS: 6*
(Kırsal Peyzaj Planlama)
Rural landscape types. Rural landscape planning methods. Landscape planning of the rural recreational resources. Principles of the protection of the natural landscape.

PEM 413 Irrigation and Drainage *(2+0+2) 3 AKTS: 5*
(Sulama Ve Drenaj)
Soil-water-plant relationship. Factors affecting irrigation and irrigation water requirements. Efficient use of water. Irrigation methods. Irrigation in greenhouses. Technical equipment and procedures of irrigation systems. Open and closed drainage systems. Irrigation and drainage samples.

PEM 490 Bitirme Projesi *(0+0+6) 3 AKTS: 9*
(Graduation Project)
Graduation Project is an individual study and will be selected amongst important landscape planning topics based on planning and design (campus, holiday village and so on) and it will be held by the supervision of a faculty member. The methods used in other projects will be followed.
Prerequisite: PEM 201, PEM 202, PEM 301, PEM 302, PEM 401; Completion of seven-semester credits except 3 courses.

PEM 412 Business Administration *(3+0+0) 3 AKTS: 6*
(İşletme Yönetimi)
Concepts. Purposes of the establishment and feasibility studies of business. The choice of location and size. Legal structure of the business. Inter-firm agreements. Management functions. Management (management functions, planning, organizing, directing, control), production, marketing, finance, public relations, R & D, human resources. Landscaping Companies.

PEM 414 Roof and Terrace Garden *(2+0+2) 3 AKTS 5*
(Çatı ve Teras Bahçeleri)
Roof and terrace gardens; organization of green areas on roof and terraces in the larger facilities such as landscaping around the rooftops of buildings, trade centers, hospitals, schools and parking lots. Roof and terrace gardens that enable the ecological transition between the urban and landscape architecture play a very important aesthetic and ecological role. Providing the visual and recreational use of these areas is the main principle.

PEM 341 Indoor Landscape Design *(2+0+2) 3 AKTS: 5*
(İç Peyzaj Düzenleme)
Interior plant species and ecological features. Types and characteristics of the interior species. Interior furniture for plants. The usage of indoor plants. Regulation of climatic factors. Preparation and implementation of interior landscape projects.

PEM 342 Environmental Impact Assessment *(2+0+2) 3 AKTS: 5*
(Çevresel Etki Ve Değerlendirme)
Purpose of the Environmental Impact Assessment (EIA). Information-gathering phase of the EIA. Analysis of the permanent or temporary impacts on the environment and social consequences of the project. The decision-making process. Project example of the implementation of EIA.

PEM 352 Landscape Maintenance Techniques *(2+0+2) 3 AKTS: 5*
(Peyzaj Bakım Tekniği)
Maintenance of plant material: Growth and development, provision of conditions. Protection from diseases and pests.

GSE 262 Geographical Information Systems *(2+0+2) 3 AKTS: 5*
(Coğrafi Bilgi Sistemleri)
Digital maps. Land information systems. the concept of dimension data types and components in Geographical information systems (GIS). Collection of digital geographic data. Remote sensing and image processing. Photogrammetric and geodetic measurements. geographical data collection by digitization. Introduction of GIS software, Principles of the design and implementation, Creating a GIS model as an example.

PEM 356 Zoning Law *(3+0+0) 3 AKTS: 5*
(İmar Hukuku)
Zoning laws and relationships of zoning law with other branches of law. Rules and principles in zoning law . Municipalities and zoning regulations. Development issues and legal solution.

GSE 362 Introduction to Urban and Regional Planning *(3+0+0) 3 AKTS: 5*
(Şehir Ve Bölge Planlamaya Giriş)
The process of urbanization. Urban forms in terms of traditional zoning theories and the concept of zoning. Urban planning principles and implementation tools. Residential, transportation, green spaces, squares, infrastructure, and other elements. The scope of urban renewal and urban transformation plans. The new urbanism movement. Urbanism and landscape architecture. The effects of globalization on urban areas.

PEM 373 Landscape Planning *(3+0+0) 3 AKTS 5*
(Çevre Düzenleme)
Description of landscape Planning concepts, landscape typologies and specifications, principles of landscape planning, living and nonliving construction materials. Preparation of landscape planning Project in residential scale.

PEM 332 Computer Aided Design II (3+0+0) 3 AKTS: 5
(Bilgisayar Destekli Tasarım Computer Aided Design II)
The use of AutoCAD and LandCAD; general presentation of Photoshop and 3Dsmax; implementation of these programs in the design of Landscape Architecture.
Prerequisite: GSE 152

PEM 372 Environmental Protection *(3+0+0) 3 AKTS: 5*
(Çevre Koruma)
Natural resources and biodiversity. Process in Human - Environment relations. Rural and urban environment. Protected areas; nature conservation areas, national parks, archaeological conservation areas, areas of special environmental protection, nature conservation areas. Management of protected areas and their functions. The historical development of nature protection. International agreements and organizations related to environment-nature conservation. Ecotourism.

PEM 382 Environmental Aesthetics and Ethics *(3+0+0) 3 AKTS: 5*
(Çevre Estetiği Ve Etik)
High-fidelity implementation of environmental projects, protection of the originality of the outputs, prevention of all types of interventions and actions which might cause distortions in time, explanation of environmental protection phenomenon and environmental ethics and principles of practice.

PEM 461 Environmental Economy *(3+0+0) 3 AKTS: 5*
(Çevre Ekonomisi)
Natural resources. Long-term and transformable benefits of the natural resources to the economy. Examples of natural resources in Turkey and in the world. Natural resources that are recycled and turned into renewable energy. Environmental indicators, environmental issues and economic evaluation.