

KARABÜK ÜNİVERSİTESİ
LİSANSÜSTÜ EĞİTİM ENSTİTÜSÜ

DEPARTMENT OF FOREST ENGINEERING					
Content of Master's Degree in Forest Engineering with Thesis					
COURSE CODE	COURSE NAME AND CONTENTS	T	A	C	ECTS
LUEE701	Scientific Research Techniques and Scientific Ethics	3	0	3	8
Purpose and Content	<p>The purpose of this course is to be able to work with scientific research methods, finding research questions, generating hypothesis, collecting data, analyzing and writing reports with in scientific ethic rule, investigating and publishing the code of ethics, investigating and publishing unethical works and examining the methods of preventing them and determining infringements.</p> <p>Work methods</p> <p>Obtaining data</p> <p>Documentation</p> <p>Analyzing and examining</p> <p>Determining the strategy</p> <p>Critical evaluation within an ethical framework, and reaching a conclusion.</p>				
ORM769	Plant Geography	3	0	3	8
Purpose and Content	<p>To show students the formation of the world and its geological periods, the periods when plants emerged on the earth's surface and their situation in today's world, so that they understand the phytogeographic regions of the world and the causes of biodiversity both in the world and in our country. Explaining the geological periods of the world and its interaction on plants, explaining the emergence of the first plants to the earth and their representation in the world system, respectively, today's situations, world biogeographic regions, the position of our country in this geography, our phytogeographic regions and the situation of biological diversity in these regions.</p>				
ORM735	Plant Pathogenic Bacteria and Virus and Identification Techniques	3	0	3	8
Purpose and Content	<p>The aim of this course is to comprehend the classical and modern diagnostic techniques of plant pathogenic bacteria and viruses. Classical diagnostic methods, molecular methods in bacteria. The morphology of bacteria and colony morphology of bacteria in culture media. The properties of viruses, their classification, symptomatology, serological methods, the use of molecular methods in the diagnosis of viruses.</p>				
ORM731	Plant Pathogenic Fungi	3	0	3	8

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Purpose and Content	Aim of this course is to grab general characteristics of Fungi, to teach growth, nutrition and reproduction of Fungi in advanced level, to introduce principal taxonomic groups in Fungi. General view to Fungi, General characteristics of Fungi, nutrition, growth and reproduction in Fungi, Classification of Fungi and introduction of basic taxonomic group in Fungi.				
ORM763	Plant Taxonomy Practice I	3	0	3	8
Purpose and Content	To gain the ability to recognize the plants of Turkey by making diagnostic studies in the specified families. Learning the general characteristics of families from Pinaceae to Apiaceae and the genera in these families and their diagnostic applications.				
ORM709	Reproduction Biology in Plants	3	0	3	8
Purpose and Content					
ORM713	Plant Nutrition	3	0	3	8
Purpose and Content	Definition of plant nutrition knowledge and its relation with other disciplines, historical development of plant nutrition knowledge, laws about productivity, growth and growth factors and factors affecting productivity in landscape studies, plant nutrients in the soil, plant-water-soil relationships, water by plants and nutrient uptake mechanisms, photosynthesis, respiration, fertilizers and fertilization techniques to give information about. Basic concepts of plant nutrition, plant nutrients, diagnosis and solutions of nutritional disorders, evaluation of soil fertility, basic principles of fertilization.				
ORM733	Insect Morphology and Anatomy	3	0	3	8
Purpose and Content	To have knowledge of Origin of insects and evolution, Morphology, Organs, Systems, Reproduction of Insects, Insect Behaviour and communication of Insects, Insect Ecology and Some Insect Ordos. Insect Origin, Morphology of Insect, Digestion, Circulatory, Excretory, Respiratory, Endocrin and Nerve Systems in Insects, Reproduction in Insects. Growing of Insect and Metamorphosis, Different reproduction types of insects, Behavioral and Communication Systems in Insects, Insect Population and Environment, Some Insect Ordos				
ORM771	Modeling Diameter Distributions	3	0	3	8
Purpose and Content	The aims of the course are: to teach concept of diameter distribution and its importance, probability density functions frequently used in forestry, development and control of diameter distribution models. Diameter distribution concept, Probability density functions, Diameter distribution models				
ORM782	Storage Techniques	3	0	3	8

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Purpose and Content					
ORM779	Natural Resources Planning	3	0	3	8
Purpose and Content	Natural resources and determination of their planning and management principles and inventorize these natural resources. Natural resources and sustainability. Classification of natural resources. The use of soil resource. Land use and the problems occurred because of inappropriate land uses. Analysis of habitat potential. Inventory studies on soil resources. Water resources and water resources management. Water protection and water production basins. Water quality protection and improvement. Wetlands and the importance of them. Vegetative resources and classification. Forest and range resources. Mapping of natural resources and making them quantitative. Evaluation of the resources at the basin level.				
ORM765	Endemism and Turkey's Endemic Plants	3	0	3	8
Purpose and Content	To learn the endemic plant richness of Turkey with the concept of endemism and endemic plants The concept of endemism and Turkey's endemic plant richness				
ORM705	Industrial Plantation	3	0	3	8
Purpose and Content	To explain the effect and function of industrial plantations in forestry management, to contribute to the spread of industrial plantations. Relationship between industrial plantation and wood raw material production, components (suitable species / species, suitable areas for species / species, tree improvement, management/tending, utilization), carbon sequestration functions				
ORM775	Erosion Prediction Models	3	0	3	8
Purpose and Content	The aim of this course is to obtain detailed information about many methods used in the prediction of soil erosion, to comprehend the basic approaches in the creation of different models, and to create a basis for the use of widely used prediction methods by graduate students. Erosion models, development and calibration of models, basic parameters in modeling, experimental (empirical) models, physically based models, model analysis, models used in erosion prediction, USLE, RUSLE, WEPP, EUROSEM, GUESS, WEPS, ANSWERS, CREAMS and other models, GIS Application processes of erosion prediction models in the environment.				
ORM777	Water Management in Watersheds	3	0	3	8
Purpose and Content	Introducing general features of watersheds, giving information about hydrological cycle and water yield, explaining factors affecting water yield and legislative and administrative measures to be taken to sustain proper water yield. Face to face instruction, evaluating scientific publications, reports/term papers.				

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ORM711	Multi-Purpose Land Use Potential of the Basin	3	0	3	8
Purpose and Content	Knowing the land use patterns in the basins and the interactions between them and revealing the sustainable land use potentials. Land use patterns in basins, land use capability classes, land use needs of people, sustainable land use and planning of land use patterns.				
ORM755	ICP Forests Level 1	3	0	3	8
Purpose and Content	The UN Economic Commission for Europe - Long-Range Transboundary Air Pollution under the Convention, "on Forests Monitoring and Evaluation of the Effects of Air Pollution International Cooperation Program (ICP Forests)" Evaluation of work. Under the "UN Economic Commission for Europe – Long-Range Transboundary Air Pollution Convention," will be informed about the studies of the "International Cooperation Program for Monitoring and Evaluation of the Effects of Air Pollution on Forests (ICP Forests)".				
ORM767	Management of Public Relations Monitoring and Evaluation Processes	3	0	3	8
Purpose and Content	The aim of this course is to evaluate the tools, equipment and methods used in public relations in public administration, to develop methods about the effectiveness of public relations and how to use this activity in forestry management, to analyze and interpret public relations and governance in forestry organization. Public relations, governance, communication, communication techniques, practices of public relations and problems encountered in practice, development of public relations in forestry, ethical and social responsibility, place of public relations in public administration, analysis of public relations and governance in forestry.				
ORM703	Concept and Vision of Silviculture in Coniferous and Deciduous Forest	3	0	3	8
Purpose and Content	To advance knowledge intending and regeneration techniques for the purpose mix in mixed forests Definitions and concepts of mixed forest, stand development ages, mixed forest types, silviculture techniques for stand development ages				
ORM723	Urban Ecology	3	0	3	8
Purpose and Content	To provide students with information about urban ecological areas to contribute to urban forestry. Human-environment relations in cities, ecological interactions between climatic, physiographic, biological, economic, social and political processes in cities, urban and peripheral biotopes, detection and conservation of biological diversity in cities, ecological sustainable approaches in the design of urban green spaces, energy consumption and green space CO2 in cities emissions relationship, inventory and maintenance of urban trees, principles of planting in urban areas, ecological principles in urban and peri-urban recreation and planning and management of green spaces				

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ORM717	Research, Presentation and Statistical Evaluations in Engineering	3	0	3	8
Purpose and Content	The aim of this course is to develop the ability of the individual to make effective presentations in front of the society with the ability to measure and evaluate the solutions brought in practice to the problems that arise in daily life (private sector and / or public sector) with methods in accordance with the principles and principles of science ethics. To teach how these studies can be reconciled with basic statistical methods. Scientific research methods, models and scientific research, planning, conducting, evaluating the data obtained, developing materials and methods, scientific article writing rules, scientific ethics, preparing content for effective presentation, presentation preparation, content format, form and rules, visuality time of presentation, frequent mistakes, organizing the data obtained and determining which statistical analysis will be used.				
ORM721	Planning of Production and Marketing in Non-wood Forest Products	3	0	3	8
Purpose and Content	Investigation of production planning principles and marketing conditions in Non-Wood Forest Products. Evaluation of the legal conditions of the production of non-wood forest products produced in the forest areas of our country and the marketing process				
ORM727	Concept and Vision of Forest Botanic -I	3	0	3	8
Purpose and Content	To know the woody plants that make up forests in detail in terms of cell structure, tissue characteristics and organ structure. Sitoloji Histoloji Organografi				
ORM725	Management of Forest Ecology	3	0	3	8
Purpose and Content	The aim of this course is to convey the principles and strategies necessary for managing the conditions of forest ecosystems related to their continuity and conservation, which arise with the effect of natural and anthropogenic factors. Conceptual content of ecosystem management, principles and basic issues of ecosystem management, determination (limitation, characterization) of ecosystems, ecosystem management practices, the importance of resilience and adaptation to climate change and forest fires in forest ecosystems, detection and management of forest ecosystem services in the context of forest functions, Important characteristics of naturalness, natural and semi-natural forest ecosystems for conservation, planning and management in forest ecosystems, biodiversity management in forest ecosystems, human and political dimension in forest ecosystem management.				
ORM759	Forest Inventory Methods	3	0	3	8

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Purpose and Content	To teach forest inventory methods Inventory methods used in forestry				
ORM741	Forest Gene Conservation	3	0	3	8
Purpose and Content	To explain the forest gene conservation function in terms of tree breeding and forest management. Genetic diversity in forest trees, threats to genetic diversity, strategies to genetic diversities, effects of forest management practices and domestication on genetic diversity, gene conservation in Turkey				
ORM719	Standards of Forest Products and Planning of Forest Products Marketing	3	0	3	8
Purpose and Content	To learn the standards and marketing processes in forest products in the world and in our country. Evaluation of the standards and marketing processes of forest products, which are wood raw materials, in the world and in our country, and the relevant legal processes in our country.				
ORM715	Organization of Forest Fires	3	0	3	8
Purpose and Content					
ORM701	Researches and Experimental Methods in Forestry	3	0	3	8
Purpose and Content	Establishing and analyzing trials in research Basic statistical concepts, research and statistical relationship, introductory statistics, correlation and regression, trial designs and analysis (complete randomised , randomised blocks, factorial design), comparison tests				
ORM761	Growth and Yield Models in Forestry	3	0	3	8
Purpose and Content	The aims of the course are: to teach main concepts of the forest growth and yield, to teach the concepts of individual and stand growth models. Individual tree growth models, stand growth models				
ORM737	Advanced Management And Organization in Forestry	3	0	3	8

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Purpose and Content	The aim of the course is to evaluate the current structure of forestry management and to examine the applicability of contemporary management approaches in parallel with the developments in forestry in the future. In this context, it is to explain the concepts that have come to the fore in the field of management organization and to examine the application possibilities in the field of forestry. Introduction to Contemporary management approaches, public administration contemporary approaches to decision making in forestry and multidimensional approaches, examination by comparing the types of organization seen in the forestry sector in Turkey, our country new approaches to organizational structure of forestry, development of business and operations with the execution systems in forestry issues in the audit area in forestry and components of an effective monitoring-evaluation system, Human resources and management in forestry, Total quality management and application areas in forestry, Examination in terms of learning organizations and forestry, Inter-business comparison and applicability in forestry, Organizational culture-organizational climate, the importance and applications of these concepts in forestry, Participation and conflict: Participatory management understanding and conflict management in forestry, Crisis management and crisis examples and solution approaches in forestry, Sustainable forest method, Future of forestry and new direction net searches				
ORM729	Herbaceous Plants Systematics	3	0	3	8
Purpose and Content	To teach the main herb species in the forests of Turkey Identification of the species, genus and families rich in terms of herb species				
ORM707	Sustainable Rural Development Policies	3	0	3	8
Purpose and Content	The aim of the course is to provide information that will help the economic, social and cultural development of the communities in order to solve the development problems in rural areas, especially the forest villages, to analyze the appropriate rural development methods and tools, to interpret the completed projects for rural development. Sustainability of rural development, rural development policies and changes, rural development approaches, rural development models and their evaluation, rural development projects and their evaluation, ORKÖY loans, rural development methods and tools.				
ORM757	Soil Physics	3	0	3	8
Purpose and Content	To reveal the physical properties of soils and their effects on fertility. Textural parts of the soil and its properties, soil texture; grain size distribution and textural classification, soil structure and constancy, soil volume weight, grain density and pore volume, soil water, soil air, soil temperature, soil color, improvement of physical soil properties.				
ORM739	Development and Forest Villages in Turkey	3	0	3	8

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Purpose and Content	This course aims to reveal the situation in the historical process of forest villages in Turkey is evaluated to reveal the social and economic structure and development of forest villages loans ORKOY. Settlements in and around the forest and forest villagers, forest villages in the historical period, rural development, ORKÖY loans, cooperatives.				
ORM753	Constitution and Management of Vegetation Database	3	0	3	8
Purpose and Content	To learn the techniques of collecting vegetation data, based on plant sociology studies under a database. Vegetation sampling methods required for vegetation analysis. Recording the obtained vegetation sampling in the relevant vegetation database programs. Consolidation of different databases. Sorting operations on sampling characteristics and species in the databases. Calculations on species diversity and richness in the database.				
ORM773	Zoological Museum Techniques	3	0	3	8
Purpose and Content	The course includes the preparation techniques of animal species for zoological museum. The methods for collecting museum material and the rules. The collection and exhibition departments of the Zoology museum and defining of their features. The preparation of invertebrate animals and insects as museum material. The fixation methods for the vertebrate groups; pisces, amphibia and reptile. The preparation of aves and mammals as museum material.				
ORM726	Plant Material Recognition or Familiarization	3	0	3	8
Purpose and Content	To teach the inner and outer morphological characteristics of Gymnospermae and Angiospermae organs. In this course, firstly the outer morphology of the woody plant parts such as stem bark, shoot, bud, stem, root, leaf, flower, fruit, seed are subjected, then the inner morphology under the microscope is examined and in final Gymnospermae and Angiospermae wood sections are observed.				
ORM764	Plant Taxonomy Practice II	3	0	3	8
Purpose and Content	To gain the ability to recognize the plants of Turkey by making diagnostic studies in the specified families. To learn the general characteristics of families from Asteraceae to Orchidaceae, and the important diagnostic characters of the genera in these families and their diagnostic applications.				
ORM770	Principles of Plant Taxonomy	3	0	3	8
Purpose and Content	The aims of the course to teach taxonomy, taxonomic categories, naming of plants, binominal nomenclature, taxonomic characters.				
ORM708	Biological Control Methods of Insects	3	0	3	8
Purpose and Content					

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ORM768	Demography and Migration	3	0	3	8
Purpose and Content	The aim of this course is; the share of urban and rural population changes in the population of the country, the demographic structure of the urban and rural areas in terms of age, gender and education, and the reasons of migration in urban and rural areas and what kind of changes they cause in urban and rural areas. Demographic transformation in urban-rural areas, demographic structure in urban-rural areas: age, gender, education, employment, development process of demographic structure in forest villages (in-forest and forest edge villages): age, gender, education, employment, direction of urban-rural migration .				
ORM736	Nature Conservation Techniques and Methods	3	0	3	8
Purpose and Content	To provide students with basic information and applications about nature conservation techniques and methods. Introduction to basic concepts in nature conservation, the relationship between environmental protection and nature conservation, the basic principles of species and area protection and tools for providing them, use of red lists, data preparation, analysis and evaluation, protected areas and nature protection, habitat quality and valuation, forest conservation and management of biodiversity, determination and protection of the structural and functional characteristics of forests for nature conservation, mapping of forest biotopes, protection and management of sensitive species and areas in forest areas, silvicultural measures and nature conservation, evaluation of tourism and recreation activities in forest areas and protected areas with a nature protection approach				
ORM754	Integrated Basin Management	3	0	3	8
Purpose and Content	Basin and watershed management, inventory methods in the basin, social and economic situation in the basin, natural resources in the watershed, the hydrological cycle, Turkey and the World Water Resources and Distribution and Water Water Management and Watershed Management Planning. To show the ways of using natural resources in basins more effectively for sustainable watershed management by teaching postgraduate students on advanced level integrated basin management.				
ORM778	Determining Soil Hydrophysical Properties and Amount of Sediment	3	0	3	8
Purpose and Content	Analysis of hydrophysical soil properties and determination of the amount of sediment in the watershed The analysis of hydro physical soil properties, types of sediment movement and measurement of suspended sediment				
ORM780	ICP Forests Level 2 Intensive Monitoring	3	0	3	8

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Purpose and Content	Under the UN Economic Commission for Europe – Long-Range Transboundary Air Pollution Convention, information will be provided on Level 2 intensive observation studies of the "International Cooperation Program for the Monitoring and Evaluation of the Effects of Air Pollution on Forests (ICP Forests)". Evaluation of Level 2 intensive observation studies under the UN Economic Commission for Europe – Long-Range Transboundary Air Pollution Convention, “International Cooperation Program for the Monitoring and Evaluation of the Effects of Air Pollution on Forests (ICP Forests)”.
ORM710	Climate Change and Carbon Management in Forests 3 0 3 8
Purpose and Content	To understand the carbon accumulation feature in forests within the scope of global warming, climate change, greenhouse effect and their prevention. Greenhouse effect, global warming, climate change, the effect of humans on global warming, carbon accumulation in biomass, carbon retention in woody matter, calculation of carbon accumulation in forests, carbon losses and degregation in forests.
ORM734	The Impact of Climate Change on Forest Ecosystem Services and Biodiversity 3 0 3 8
Purpose and Content	To transfer the effects of climate change on the functioning of forest ecosystem services and forest biological diversity and the measures to be taken for this issue. Introduction to climate change, climate change scenarios, introduction to forest ecosystem services, threats to ecosystem services, consequences of climate change and biological diversity interaction, problems of conservation of biological diversity in the face of climate change, mitigation and adaptation of climate change in ecosystem services and biodiversity conservation strategies, integration of these strategies into sustainable forest management.
ORM704	Concept and Vision of Forest Care in Coniferous and Deciduous Forest 3 0 3 8
Purpose and Content	To introduce tending techniques for mixed forests. Definitions and concepts related to maintenance, stand development ages, mixed forest types, tending techniques for stand development ages
ORM712	Protected Areas Policies and Evaluation Methods 3 0 3 8
Purpose and Content	To improve the level of awareness about the historical process of protected areas in the world and in our country and the philosophy of protected areas. It is the demonstration of the business and process processes for the existing protected areas and potential protected areas in the Western Black Sea Region. It is the discussion and evaluation of the solution suggestions for the problems experienced and / or that may be experienced in the said areas through legal processes. Historical process of protected areas in the world and in our country, current status of protected areas in the Western Black Sea Region, developments in protected area policies in our country, evaluation of management functions from the perspective of principles and principles of protected area management, discussion of evaluation criteria and indicators for protected area development.

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ORM766	Global Poverty-Deprivation Processes and Women	3	0	3	8
Purpose and Content	The aim of this course; will have information about the concept of poverty-deprivation, its causes, measurement, poverty and deprivation processes and effects in forest villages, the situation of women in forest villages, policies for their empowerment and women's forestry work. Poverty-deprivation types, causes, measurement methods, poverty-deprivation in forest villages, Women's poverty and policies to combat poverty, social security deprivation and women, women in forest villages, female forestry work in forestry.				
ORM756	Pasture Ecology	3	0	3	8
Purpose and Content	It aims to reveal the causes of erosion and sedimentation in the soil, its formation, the damages it will cause, measurement techniques and preventive measures that can be taken. With the rangeland ecology course, it is aimed to introduce the students to the rangeland ecosystems, to gain the ability to interpret the mutual interaction of the factors that make up the rangeland ecosystems, to enable them to easily determine the strategies in the sustainable pasture management and pasture improvement plans through pasture vegetation.				
ORM781	Forest Tending	3	0	3	8
Purpose and Content					
ORM772	Forest Biomass Mensuration Methods	3	0	3	8
Purpose and Content	The aims of the course are: to teach information about living biomass in forest ecosystem, below- and above-ground biomass components and their measurement techniques. Biomass and carbon concept in forest ecosystem, measurement and sampling methods of biomass and carbon storage capacities				
ORM724	Concept and Vision of Forest Botany II	3	0	3	8
Purpose and Content	To understand the plant biodiversity of Turkey's forests and learn the botanical characteristics of trees, shrubs and herbaceous plants of forests in Turkey. Plant biodiversity Gymnospermae Angiospermae				
ORM752	Scrubs in the Forests	3	0	3	8

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Purpose and Content	The aim is to explain the distribution, morphological features and definitions of important shrub species found in the forests of Turkey that cannot be shown in Gymnosperm and Angiospermae lessons. Within the scope of the course, the distribution, botanical characteristics and definition of shrub taxa distributed in the forests of Turkey will be given. In this context, the main shrub taxa distributed respectively in the Euro-Siberian, Mediterranean and Irano-Turanian phytogeographical regions will be observed.				
ORM714	Forestry Tourism Relations and Policies of Ecotourism	3	0	3	8
Purpose and Content	Explaining the course aims to teach students the concept of ecotourism, the importance of ecotourism is to provide information on applications made in Turkey and in the world. In addition, to realize that eco tourism is a good alternative for sustainable tourism as tourism that protects the environment, maintains the welfare of the local people, knows its responsibility to natural areas, offers an environmentally friendly alternative to mass tourism; It is aimed to raise awareness about the importance of protection (sustainability) by using it. Tourism, environment, sustainability, diversification of tourism, the concept of ecotourism, its historical development, objectives and principles, ecotourism, ecotourism types, actors in ecotourism, ecotourism-local public relationship, ecotourism's environmental, economic and social effects, protected areas and ecotourism, nature tourism the master plan, ecotourism potential are the contents of this course, the importance of tourism, forestry, interactions between forestry and tourism sectors, forest resources used for tourism in the world and Turkey, tourism development in Turkey and their impact on forests and the policies followed.				
ORM722	Forest Fire Risk Analysis and Its Management Techniques	3	0	3	8
Purpose and Content	Transferring and comprehending the factors that create the forest ecosystem and the relationships between these factors. Introduction to forest fire behaviors and forest fire ecology, factors affecting the sensitivity of forest ecosystems to fire, methods used in fire risk analysis, mapping of fire risk areas, determination of flammable load and fire prevention measures, use of fire meteorology data, forest fire extinguishing techniques and tools, fire extinguishing organization, evaluation of forest fires and fire risk management activities in Turkey				
ORM760	Statistics in Forestry Research	3	0	3	8
Purpose and Content	Teaching the basic statistical methods needed in forestry research and the application of these methods with the help of package programs. Basic statistical methods used in Forestry Research				
ORM740	Forestry Legislation and Assessments	3	0	3	8

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Purpose and Content	The aim of this course is to define the forest, which is one of the important natural resources, from a legal perspective and to teach the legislation related to this resource and to make it put into practice. Examine and interpret forestry laws from past to present. Forestry laws in the historical process (3116, 4785, 5653, 6831, 5531), the comparative evolution processes of basic laws in forestry (3116, 4785, 5653, 6831), the breaks in the Forestry Law No. 6831 and their relationship with the social process				
ORM716	Organization, Management and Forestry Laws in Forestry Policies	3	0	3	8
Purpose and Content	It is the increase of knowledge and awareness about the historical process of our country's forestry and forestry organization and management organizations. Giving information about the history of forestry since 1840, evaluating the legal processes related to forestry from the past to the present and the forms of organization formed in this context, examining the understanding of forestry management and organization in our recent history.				
ORM732	Biotechnology Applications in Forestry	3	0	3	8
Purpose and Content	The general aim of this course is; to enable the student to learn biotechnology and its application areas. Introduction to biotechnology, DNA, RNA and protein synthesis, Synthesis of recombinant microorganisms commercial products, Biotechnological vaccines, Biotechnology and animals, Environmental effects of using biotechnology, Legal aspects of biotechnology etc.				
ORM718	Applications of Geographic Information System in Forestry	3	0	3	8
Purpose and Content	It is the transfer of information and techniques to students about using GIS in forest inventory, planning, management, ecology and other research fields. Spatial analysis tools, suitability analysis, site selection procedures, creating topographic index, hydrological models, land cover change, classification of forest ecosystems and habitats				
ORM738	Management of Marketing Research in Forestry	3	0	3	8
Purpose and Content	Evaluating current and future marketing methods for forest products and services. It is to examine the applicability of these marketing approaches in the forestry sector by gaining information about the marketing methods of forest products and services and developing marketing approaches today.				
ORM762	Site Quality Estimation Methods in Forestry	3	0	3	8
Purpose and Content	The aims of the course are: to teach concept of site quality, methods to estimate site quality, concept of site index, methods to estimate site index, Generalized algebraic difference approach. Concept of site quality, methods to estimate site quality, concept of site index, methods to estimate site index, Generalized algebraic difference approach				

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ORM730	Integrated Pest Management in Forestry	3	0	3	8
Purpose and Content	The aim of the course is to provide students with the knowledge that will enable them to use all methods of pest control by combining them in a safe and economical way in terms of environment and human health. The content of the course is to provide students with the knowledge that will enable them to use all methods of pest control by combining them in a safe and economical way in terms of environment and human health.				
ORM758	Wildlife Ecology and Management in the Forested Areas	3	0	3	8
Purpose and Content	To provide students with theories and practices about wildlife ecology and management in forest areas, including its sustainable conservation and use. Introduction to wildlife ecology, wildlife knowledge habitat and species inventory techniques, habitat-species relationship, habitat assessment, predator-prey relationship, population analysis, determination, planning and management of wildlife protection and development areas, wildlife conservation, sustainable hunting, hunting tourism, habitat restoration for forest wildlife species, species reintroduction, hunting and wildlife management in forested areas and applications in Turkey				
ORM776	Determining Soil Hydrophysical Properties and Amount of Sediment	3	0	3	8
Purpose and Content	water resources management; It will be very important in the future, both regionally and internationally. The aim of the course is to provide advanced water resource development and management tools in the light of watershed management principles and methods. Fresh water resources of our planet and Turkey. Fresh water resources of our planet and Turkey. Water Cycle (Hydrological Cycle) definition and components. Water Cycle (Hydrological Cycle) definition and components. Formation of surface, subsurface and ground waters. Formation of surface, subsurface and ground waters. Water production (Water quality, quantity and regime) and factors affecting it. Water production (Water quality, quantity and regime) and factors affecting it. Principles of regulation of water production. Principles of regulation of water production. Water production in arid regions. Water production in arid regions. Protection of natural water resources. Water legislation.				
ORM702	Seed Sources Management and Using Reproductive Material	3	0	3	8
Purpose and Content	To teach the management of seed resources and producing reproductive materials from seed sources. Seed resources in forestry, management of seed resources, use of production materials from seed resources				
ORM774	Traces and Signs of Wild Animals	3	0	3	8
Purpose and Content	To be able to do research by using the traces and signs left by wild animals. Diagnosing of wild animals from tracks, feces, feathers, nest, etc., detecting diet from feces, calculating of population density from track and symptoms, collecting tracks, feces, feathers, nest, etc.. from lands, and storage methods.				

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ORM797	MSc Seminar	0	2	0	6
Purpose and Content	• To give the ability of the oral presentation and discussion • To decide on the objectives of the thesis work and the strategy. Presentation of the thesis work				
ORM7098D	Course Specialised Field	4	0	0	4
Purpose and Content	Course Specialised Field is a theoretical course proposed by a faculty member to share their knowledge, experience, and expertise in their scientific field with graduate students under their supervision. This course aims to educate students on scientific ethics and instil a strong work discipline.				
ORM7098T	Thesis Specialised Field	4	0	0	4
Purpose and Content	Thesis Specialised Field is a theoretical course that the faculty member proposes to the graduate students he/she supervises in order to share the methods of conducting research in the current literature, following and evaluating the literature, and to establish and carry out the scientific foundations of the student's thesis / exhibition / project work.				
ORM799	MSc Thesis Research	0	1	0	26
Purpose and Content	To improve the ability of getting the scientific information, its evaluation and interpretation by conductive scientific research. MsC thesis work				