

COURSE LIST

Institute of Natural and Applied Sciences

Field : Fisheries Basic Sciences

Course Title	Code	ECTS Credit	COMU Credit	Lecturer
Laboratory Techniquesin Fisheries	ULP-21-ST001	7.5	3	Prof. Dr. Sezginer Tunçer
Biology of Decapoda	ULP-21-ST002	7.5	3	Prof. Dr. Sezginer Tunçer
Utilization & Management of Coastal Areas	ULP-21-ST003	7.5	4	Prof. Dr. Sezginer Tunçer
Protection of Natural Life	ULP-21-ST004	7.5	3	Doç. Dr. Mehmet Akbulut
Ecology of Turkish Seas	ULP-21-ST005	7.5	3	Doç. Dr. Muhammet Türkoğlu
Marine Ecosystem & Layers	ULP-21-ST006	7.5	3	Doç. Dr. Yeşim Büyükatdeş
Marine Petroleum Polution & Precautions	ULP-21-ST007	7.5	3	Prof. Dr. Sezginer Tunçer
Marine Phytoplankton	ULP-21-ST008	7.5	3	Doç. Dr. Muhammet Türkoğlu
Harmful Marine Microplankton	ULP-21-ST009	7.5	3	Doç. Dr. Muhammet Türkoğlu
Economic Marine Fauna	ULP-21-ST010	7.5	3	Yrd. Doç. Dr. Ekrem Şanver Çelik
Ethology	ULP-21-ST011	7.5	3	Doç. Dr. Mehmet Akbulut
Aquatic Primary Production	ULP-21-ST012	7.5	3	Doç. Dr. Muhammet Türkoğlu
Marine Zooplankton	ULP-21-ST013	7.5	3	Doç. Dr. Muhammet Türkoğlu
Cytology of Seaweeds	ULP-21-ST014	7.5	3	Doç. Dr. Suat Ateş
Utilization of Marine Products as Food	ULP-21-ST015	7.5	3	Yrd. Doç. Dr. Ekrem Şanver Çelik
Scientific Writing and Presentation Techniques	ULP-21-ST016	7.5	3	Yrd. Doç. Dr. Yeşim Büyükatdeş
Lower Food-Web Interactions in Aquatic Ecosystems	ULP-21-ST017	7.5	4	Yrd. Doç. Dr. Yeşim Büyükatdeş
Toxic Marine Organisms	ULP-21-ST018	7.5	4	Yrd. Doç. Dr. Yeşim Büyükatdeş
Marine Bioerosion	ULP-21-ST019	7.5	2	Doç. Dr. Suat Ateş
Freshwater Benthology	ULP-21-ST020	7.5	3	Yrd. Doç. Dr. Mehmet Akbulut

Fish Hematology	ULP-21-ST021	7.5	4	Yrd. Doç. Dr. Ekrem Şanver Çelik
Fish Blood Enzymes and Lipids	ULP-21-ST022	7.5	3	Yrd. Doç. Dr. Ekrem Şanver Çelik
Ecometry	ULP-21-ST023	7.5	3	Yrd. Doç. Dr. Mehmet Akbulut
Alien and Invasive Species	ULP-21-ST024	7.5	3	Doç. Dr. Suat Ateş
Ecotoxicologic Applications in Fisheries	ULP-21-ST025	7.5	3	Yrd. Doç. Dr. Mehmet Akbulut
Marine Molluscs of Turkey	ULP-21-ST026	7.5	3	Doç. Dr. Suat Ateş
Reservoir Limnology	ULP-21-ST027	7.5	3	Yrd. Doç. Dr. Selçuk Berber
Biology of Freshwater Crayfish	ULP-21-ST028	7.5	3	Yrd. Doç. Dr. Selçuk Berber
Landscape & Utilization of Coastal Areas	ULP-21-ST029	7.5	3	Prof. Dr. Sezginer Tunçer
Aquatic Sources and Their Utilization	ULP-21-ST030	7.5	4	Prof. Dr. Mustafa Alpaslan
Phytoplankton Dynamics	ULP-21-ST031	7.5	3	Doç. Dr. Muhammet Türkoğlu
Waste Water Treatments	ULP-21-ST032	7.5	3	Prof. Dr. Sezginer Tunçer
Turkish Living Resources & Fisheries Problems	ULP-21-ST033	7.5	3	Prof. Dr. Mustafa Alpaslan
Marine Plankton Research Methods	ULP-21-ST034	7.5	3	Doç. Dr. Muhammet Türkoğlu
Brackishwater Biology	ULP-21-ST035	7.5	3	Yrd. Doç. Dr. Selçuk Berber
Advanced Radioecology	ULP-21-ST036	7.5	2	Prof. Dr. Sezginer Tunçer
Special Ecosystems	ULP-21-ST037	7.5	3	Yrd. Doç. Dr. Selçuk Berber
Effects of Pollution on Benthos	ULP-21-ST038	7.5	3	Doç. Dr. Suat Ateş
Economically Important Sea Weeds	ULP-21-ST039	7.5	3	Yrd. Doç. Dr. Ekrem Şanver Çelik
Statistical Research and Evaluation Methods	ULP-21-ST040	7.5	3	Yrd. Doç. Dr. Mehmet Akbulut
Energy Flow and Mineral Cycling	ULP-21-ST041	7.5	3	Yrd. Doç. Dr. Yeşim Büyükatdeş
The Food of Plankters – Plankters as Food Sources	ULP-21-ST042	7.5	3	Yrd. Doç. Dr. Yeşim Büyükatdeş
Poisonous Fishes	ULP-21-ST043	7.5	4	Yrd. Doç. Dr. Selçuk Berber
Mediterranean Deep-Sea Biology	ULP-21-ST044	7.5	4	Doç. Dr. Suat Ateş

Aquarium Plants Culture	ULP-21-ST045	7.5	3	Yrd. Doç. Dr. Mehmet Akbulut
Biofouling and Control Technology	ULP-21-ST046	7.5	4	Yrd. Doç. Dr. Ekrem Şanver Çelik
Bioecology of Mollusca	ULP-21-ST047	7.5	3	Doç. Dr. Suat Ateş
Marine Benthology	ULP-21-ST048	7.5	4	Doç. Dr. Suat Ateş
Freshwater Crayfish Culture	ULP-21-ST049	7.5	3	Yrd. Doç. Dr. Selçuk Berber
Fish Endocrinology	ULP-21-ST050	7.5	3	Yrd. Doç. Dr. Ekrem Şanver Çelik
Marine Benthology	ULP-21-ST051	7.5	3	Doç. Dr. Suat Ateş

Course Code	ULP-21-ST001
Name of the Course in English	Laboratory Techniques in Fisheries
Name of the Course in Turkish	Su Ürünlerinde Laboratuvar Teknikleri
Language of the Course	English
Level of the Course	Master
Lecturer	Prof. Dr . Sezginer TUNÇER
ECTS Credit	7,5
COMU Credit	3
Description	Description and specifications laboratory equipment used in fisheries research with applications.

Course Code	ULP-21-ST002
Name of the Course in English	Biology of Decapoda
Name of the Course in Turkish	Dekapodların Üreme Biyolojisi
Language of the Course	English

Level of the Course	Master
Lecturer	Prof. Dr . Sezginer TUNÇER
ECTS Credit	7,5
COMU Credit	3
Description	Biological aspects of species distributed in Turkish seas as well as in other regions of the world.

Course Code	ULP-21-ST003
Name of the Course in English	Utilization & Management of Coastal Areas
Name of the Course in Turkish	Kıyusal Alanların Kullanımı ve Yönetimi
Language of the Course	English
Level of the Course	Master
Lecturer	Prof. Dr . Sezginer TUNÇER
ECTS Credit	7,5
COMU Credit	4
Description	Evaluation of special biotops along the coasts of seas, oceans and lakes. Sustainability of these areas, present problems and precautions.

Course Code	ULP-21-ST004
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Name of the Course in English	Protection of Natural Life
Name of the Course in Turkish	Doğal Hayatı Koruma
Language of the Course	English
Level of the Course	Master
Lecturer	Doç. Dr. Mehmet Akbulur
ECTS Credit	7,5
COMU Credit	3
Description	The importance of aquatic species in the ecosystem, their importance for the economy, their protection, the result of environmental ravages.

Course Code	ULP-21-ST005
Name of the Course in English	Ecology of Turkish Seas
Name of the Course in Turkish	Türkiye Denizleri Ekolojisi
Language of the Course	English
Level of the Course	Master
Lecturer	Doç. Dr. Muhammet TÜRKOĞLU
ECTS Credit	7,5
COMU Credit	3
Description	Physico-chemical and biological features of the Mediterranean, Aegean Sea, the Straits and Black Sea, living resources, foreign and expensive species, species under threat.

Course Code	ULP-21-ST006
Name of the Course in English	Marine Ecosystem & Layers
Name of the Course in Turkish	Denizsel Ekosistem Katlaşma
Language of the Course	English
Level of the Course	Master
Lecturer	Doç. Dr. Yeşim BÜYÜKATEŞ
ECTS Credit	7,5
COMU Credit	3
Description	Littoral and deep sea studies, stratification and ecosystem formation.

Course Code	ULP-21-ST007
Name of the Course in English	Marine Petroleum Pollution & Precautions
Name of the Course in Turkish	Denizel Petrol Kirliliği ve Önlemler
Language of the Course	English
Level of the Course	Master
Lecturer	Prof. Dr . Sezginer TUNÇER
ECTS Credit	7,5
COMU Credit	3
Description	The development of petrol transportation by vessels in the world, petroleum sources reaching the marine environment, effects of accidents in the seas on marine living resources.

Course Code	ULP-21-ST008
Name of the Course in English	Marine Phytoplankton
Name of the Course in Turkish	Denizel Fitoplankton
Language of the Course	English
Level of the Course	Master
Lecturer	Doç. Dr. Muhammet TÜRKOĞLU
ECTS Credit	7,5
COMU Credit	3
Description	Taxonomy and characteristics of Brackish water and Marine Phytoplanktons.

Course Code	ULP-21-ST009
Name of the Course in English	Harmfull Marine Microplankton
Name of the Course in Turkish	Denizel Zararlı Mikroplanktonik Türler
Language of the Course	English
Level of the Course	Master
Lecturer	Doç. Dr. Muhammet TÜRKOĞLU
ECTS Credit	7,5
COMU Credit	3
Description	Available and potential harmful plankton in Turkish seas, and

	their toxins. Ecological and economic effects of harmful plankton
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Course Code	ULP-21-ST010
Name of the Course in English	Economic Marine Fauna
Name of the Course in Turkish	Ekonomik Deniz Faunası
Language of the Course	English
Level of the Course	Master
Lecturer	Yrd. Doç. Dr. Ekrem Şanver ÇELİK
ECTS Credit	7,5
COMU Credit	3
Description	The importance of aquatic animals used in food and drug industry, their ecology.

Course Code	ULP-21-ST011
Name of the Course in English	Ethology
Name of the Course in Turkish	Deniz Canlılarının Davranışları
Language of the Course	English
Level of the Course	Master
Lecturer	Doç. Dr. Mehmet AKBULUT
ECTS Credit	7,5
COMU Credit	3

Description	Effects of environmental factors on the behavior of aquatic livings, migration, agresivity, behavior types and differences in several living groups
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Course Code	ULP-21-ST012
Name of the Course in English	Aquatic Primary Production
Name of the Course in Turkish	Sucul Birincil Üretim
Language of the Course	English
Level of the Course	Master
Lecturer	Doç.Dr.Muhammet TÜRKOĞLU
ECTS Credit	7,5
COMU Credit	3
Description	The importance of aquatic primary production and its mechanisms is the main focus of this lecture. Comparison of the capacity of primary production in Turkish seas with other regions.

Course Code	ULP-21-ST013
Name of the Course in English	Marine Zooplankton
Name of the Course in Turkish	Denizel Zooplankton
Language of the Course	English
Level of the Course	Master
Lecturer	Doç. Dr. Muhammet TÜRKOĞLU

ECTS Credit	7,5
COMU Credit	4
Description	Marine zooplankton distributed in Turkish seas in perspective of biologic, sistematic and ecologic views.

Course Code	ULP-21-ST014
Name of the Course in English	Cytology of Seaweeds
Name of the Course in Turkish	Denizel Bitkilerin Sitolojisi
Language of the Course	English
Level of the Course	Master
Lecturer	Doç. Dr. Suat ATEŞ
ECTS Credit	7,5
COMU Credit	3
Description	Characteristics and life cycles of sea-weeds (haplo, diplo, haplodiplophasic cycles).

Course Code	ULP-21-ST015
Name of the Course in English	Utilization of Marine Products as Food
Name of the Course in Turkish	Deniz Ürünlerinin Gıdasal Kullanımı
Language of the Course	English
Level of the Course	Master
Lecturer	Yrd. Doç. Dr. Ekrem Şanver ÇELİK
ECTS Credit	7,5
COMU Credit	3

Description	Nutritional contents of fish, invertebrates, macro-micro algae, etc. used as food for humans. Proper processing and cooking procedures
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Course Code	ULP-21-ST016
Name of the Course in English	Scientific Writing and Presentation Techniques
Name of the Course in Turkish	Bilimsel Yazım ve Sunum Teknikleri
Language of the Course	English
Level of the Course	Master
Lecturer	Yrd. Doç. Dr. Yeşim BÜYÜKATEŞ
ECTS Credit	7,5
COMU Credit	3
Description	Scientific writing and types of scientific writings. Using effective writing techniques and instructions, graphical representations of data, presentation techniques. Thesis, poster and scientific paper preparation and presentation.

Course Code	ULP-21-ST017
Name of the Course in English	Lower Food-Web Interactions in Aquatic Ecosystems
Name of the Course in Turkish	Sucul Ekosistemlerde Alt Besin Ağı İlişkileri
Language of the Course	English
Level of the Course	Master

Lecturer	Yrd. Doç. Dr.Yeşim BÜYÜKATEŞ
ECTS Credit	7,5
COMU Credit	4
Description	Interactions of water column bacteria, phytoplankton and zooplankton with respect to nutrients and abiotic factors in aquatic ecosystems; the effects of these interactions to higher trophic levels (filter feeders such as bivalves, fish...).

Course Code	ULP-21-ST018
Name of the Course in English	Toxic Marine Organisms
Name of the Course in Turkish	Zehirli Deniz Organizmaları
Language of the Course	English
Level of the Course	Master
Lecturer	Yrd. Doç. Dr.Yeşim BÜYÜKATEŞ
ECTS Credit	7,5
COMU Credit	4
Description	Taxonomy and eco-biologies of micro-macro organisms living in different aquatic habitats and their effects on environmental health. Geographic distribution of these organisms and their impacts on ecology.

Course Code	ULP-21-ST019
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Name of the Course in English	Marine Bioerosion
Name of the Course in Turkish	Denizel Biyoerozyon
Language of the Course	English
Level of the Course	Master
Lecturer	Doç. Dr. Suat ATEŞ
ECTS Credit	7,5
COMU Credit	2
Description	The relationship between microbial epiliths and endoliths, as the primary producers of the bioerosional community, and their grazers represent a synergistic mechanism. Most bioeroder species are both small in size and secretive in living habits. Although the majority of bioeroders are not visible, it has been suggested that their numbers and combined mass equal or exceed that of the surface biota. Bioeroders that are usually present and visible on surfaces are external bioeroders and those living within calcareous skeletons are termed internal bioeroders.

Course Code	ULP-21-ST020
Name of the Course in English	Freshwater Benthology
Name of the Course in Turkish	İçsular Bentolojisi
Language of the Course	English
Level of the Course	Master
Lecturer	Yrd. Doç. Dr. Mehmet AKBULUT
ECTS Credit	7,5
COMU Credit	3
Description	Fespwater benthic invertebrate organisms highly effect on

	<p>biological diversity and fish abundance. So it is important to know investigating methods of these organisms, ecology and taxonomy. In this lesson, taxonomical identification methods, investigation in field and ecology of freshwater benthic macroinvertebrate fauna will be teacherd both in laboratory in the field practicely.</p>
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Course Code	ULP-21-ST021
Name of the Course in English	Fish Hematology
Name of the Course in Turkish	Balık Hematolojisi
Language of the Course	English
Level of the Course	Master
Lecturer	Yrd. Doç. Dr. Ekrem Şanver ÇELİK
ECTS Credit	7,5
COMU Credit	4
Description	<p>Fish Blood, structure and function of blood, the usage of hematology in illness diagnosis and the basic important hematologic parameters for fish. The main natural effecting hemotologic and biochemical blood parameters of fish.</p> <p>Appplication of hemotologic techniques in laboratory and evaluation of these with previous studies</p>

Course Code	ULP-21-ST022
Name of the Course in English	Fish Blood Enzymes and Lipids

Name of the Course in Turkish	Balık kan Enzimleri ve Lipidleri
Language of the Course	English
Level of the Course	Master
Lecturer	Yrd. Doç. Dr. Ekrem Şanver ÇELİK
ECTS Credit	7,5
COMU Credit	3
Description	The description, structure and functions of fish blood enzymes and lipids. The importance of fish blood enzymes and lipids in normal and pathological conditions and the main natural factors effecting them. Investigation methods of fish blood enzymes and lipids, the studies dealing with this subject and their assessments.

Course Code	ULP-21-ST023
Name of the Course in English	Ecometry
Name of the Course in Turkish	Ekometri
Language of the Course	English
Level of the Course	Master
Lecturer	Yrd. Doç. Dr. Mehmet AKBULUT
ECTS Credit	7,5
COMU Credit	3
Description	In aquatic ecosystem, after determining biological diversity, it is important find the be taught the biological diversity analysis

	methods in vitro and in vivo by biodiversity Pro and SPSS program.
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Course Code	ULP-21-ST024
Name of the Course in English	Alien and Invasive Species
Name of the Course in Turkish	Yabancı ve Yayılmacı Türler
Language of the Course	English
Level of the Course	Master
Lecturer	Doç. Dr. Suat ATEŞ
ECTS Credit	7,5
COMU Credit	3
Description	Invasive species (alien species) whose introduction does or is likely to cause economic or environmental harm or harm to human health. Their transport, propagation mechanisms and control methods.

Course Code	ULP-21-ST025
Name of the Course in English	Ecotoxicologic Applications in Fisheries
Name of the Course in Turkish	Su Ürünlerinde Ekotoksikolojik Uygulamalar
Language of the Course	English
Level of the Course	Master

Lecturer	Yrd. Doç. Dr. Mehmet AKBULUT
ECTS Credit	7,5
COMU Credit	3
Description	Nowadays, water resources and water products are getting polluted due to increasing population, developing industry technology. In lesson, after knowledges about the effects of pollutants on environmental and organisms, ecotoxicologic bioassays experiments will be conducted in Fisheries Faculty Water Quality Laboratory and how to analyze data by probit analysis.

Course Code	ULP-21-ST026
Name of the Course in English	Marine Molluscs of Turkey
Name of the Course in Turkish	Türkiye Denizel Molluskları
Language of the Course	English
Level of the Course	Master
Lecturer	Doç. Dr. Suat ATEŞ
ECTS Credit	7,5
COMU Credit	3
Description	Marine Molluscs distributing of the Turkey Seas , systematics, ecology and biology, and their biodiversity and distributions

Course Code	ULP-21-ST027
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Name of the Course in English	Reservoir Limnology
Name of the Course in Turkish	Rezervuar Limnolojisi
Language of the Course	English
Level of the Course	Master
Lecturer	Yrd. Doç. Dr. Selçuk BERBER
ECTS Credit	7,5
COMU Credit	3
Description	Teaching important topics in reservoir limnology and management.

Course Code	ULP-21-ST028
Name of the Course in English	Biology of Freshwater Crayfish
Name of the Course in Turkish	Tatlısu İstakozlarının Biyolojisi
Language of the Course	English
Level of the Course	Master
Lecturer	Yrd. Doç. Dr.Selçuk BERBER
ECTS Credit	7,5
COMU Credit	3
Description	General Biology of Crayfish; Functional morphology, Phylogeny and Evolution, Functional Anatomy; Musculature, Respiratory system, Circulatory system, Excretory system, Rndocrine system, Nervous system, Sense organs, Growth and Reproduction.

Course Code	ULP-21-ST029
Name of the Course in English	Landscape & Utilization of Coastal Areas
Name of the Course in Turkish	Kıyusal Alanların Düzenlemesi ve İşletmeciliği
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Prof. Dr. Sezginer TUNÇER
ECTS Credit	7,5
COMU Credit	3
Description	Planning and control of coastal areas in terms of environmental and coastal law.

Course Code	ULP-21-ST030
Name of the Course in English	Aquatic Sources and Their Utilization
Name of the Course in Turkish	Sucul Kaynaklar ve Değerlendirilmesi
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Prof. Dr. Mustafa ALPARSLAN
ECTS Credit	7,5
COMU Credit	4
Description	Description of resources (inanimate and alive) in seas and internal waters. Life cycle of animals, their economic value, import and export possibilities

Course Code	ULP-21-ST031
Name of the Course in English	Phytoplankton Dynamics
Name of the Course in Turkish	Fitoplankton Dinamiđi
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Doç. Dr. Muhammet TÜRKOĐLU
ECTS Credit	7,5
COMU Credit	3
Description	Differences in the dynamics of phytoplakton, environmental (temperature, salinity, light intensity, etc.) and chemical effects (micro and macro nutrients etc.).

Course Code	ULP-21-ST032
Name of the Course in English	Waste Water Treatments
Name of the Course in Turkish	Atık Suların Arıtımı
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Prof.Dr. Sezginer TUNÇER
ECTS Credit	7,5
COMU Credit	3

Description	Water discharges from fish processing facilities, methods of refinement.
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Course Code	ULP-21-ST033
Name of the Course in English	Turkish Living Resources & Fisheries Problems
Name of the Course in Turkish	Türkiye Canlı Deniz Kaynakları & Balıkçılık Sorunları
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Prof.Dr.Mustafa Alparslan
ECTS Credit	7,5
COMU Credit	3
Description	Characteristics of Turkish seas, differences in biodiversity of the Black Sea and the Mediterranean in the past and today, human effects on bio-diversity, fisheries condition and problems in Turkey

Course Code	ULP-21-ST034
Name of the Course in English	Marine Plankton Research Methods)
Name of the Course in Turkish	Denizel Planktonik Bir Hücrelilerin Araştırma Yöntemleri
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Doç.Dr. Muhammet TÜRKOĞLU

ECTS Credit	7,5
COMU Credit	3
Description	Sampling types of marine plancton and equipments used in sampling, transferring samples to the laboratory, and laboratory work

Course Code	ULP-21-ST035
Name of the Course in English	Brackishwater Biology
Name of the Course in Turkish	Acısu Biyolojisi
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Yrd. Doç. Dr.Selçuk BERBER
ECTS Credit	7,5
COMU Credit	3
Description	Physico-chemical characteristics of lagune environments, living organisms, aquaculture potential, problems, protection and improvement.

Course Code	ULP-21-ST036
Name of the Course in English	Advanced Radioecology
Name of the Course in Turkish	İleri Radyoekoloji
Language of the Course	English

Level of the Course	Doctorate
Lecturer	Prof.Dr. Sezginer TUNÇER
ECTS Credit	7,5
COMU Credit	2
Description	Sampling types of marine plancton and equipments used in sampling, transferring samples to the laboratory, and laboratory work

Course Code	ULP-21-ST037
Name of the Course in English	Special Ecosystems
Name of the Course in Turkish	Özel Ekosistemler
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Yrd. Doç. Dr.Selçuk BERBER
ECTS Credit	7,5
COMU Credit	3
Description	Eustaurine zones, lagunes, wetlands, mangrow plants and zones, physico-chemical and biologic features, economic and ecologic importance

Course Code	ULP-21-ST038
Name of the Course in English	Effects of Pollution on Benthose
Name of the Course in Turkish	Kirlenmenin Benthosa Etkileri
Language of the Course	English

Level of the Course	Doctorate
Lecturer	Doç. Dr. Suat ATEŞ
ECTS Credit	7,5
COMU Credit	3
Description	Source and types of pollution, domestic and industrial pollution, petroleum hydrocarbons, hot areas: the straits, Izmit, Izmir, and Iskenderun Bays.

Course Code	ULP-21-ST039
Name of the Course in English	Economically Important Sea Weeds
Name of the Course in Turkish	Ekonomik Değeri olan Deniz Bitkileri
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Yrd. Doç. Dr. Ekrem Şanver ÇELİK
ECTS Credit	7,5
COMU Credit	3
Description	: Biochemical composition of sea weeds, utilization of sea weeds in food, agriculture, pharmacy, cosmetics, and energy sector; economically important sea weeds distributed in Turkish seas.

Course Code	ULP-21-ST040
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Name of the Course in English	Statistical Research and Evaluation Methods
Name of the Course in Turkish	Su Ürünlerinde İstatistiksel Araştırma ve Değerlendirme Yöntemleri
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Doç. Dr. Mehmet AKBULUT
ECTS Credit	7,5
COMU Credit	3
Description	Determination of polluters, source of pollution in fisheries, Investigation of cronic and acute pollution deposited in tissues, relation between pollution parameters and the source of pollution

Course Code	ULP-21-ST041
Name of the Course in English	Energy Flow and Mineral Cycling
Name of the Course in Turkish	Enerji Akışı ve Mineral Döngüsü
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Yrd. Doç. Dr. Yeşim BÜYÜKATEŞ
ECTS Credit	7,5
COMU Credit	3
Description	Energy sources and productivity. Energy flow and laws of thermodynamics. Photosynthesis, gross and net productions, primary productivity in aquatic ecosystems. Food pyramide, food-webs ans biomass. Carbon, nitrogen, phosphorus, silicate

and trace matter cycles.

Course Code	ULP-21-ST042
Name of the Course in English	The Food of Plankters-Plankters as Food Sources
Name of the Course in Turkish	Plankterlerin Besin Kaynakları-Besin Kaynağı Olarak Plankterler
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Yrd. Doç. Dr. Yeşim BÜYÜKATEŞ
ECTS Credit	7,5
COMU Credit	3
Description	Photosynthesis and respiration mechanisms. Nutrients, phytoplankton and zooplankton interactions. Predator zooplankton species. Lower food-web interactions and factors affecting these interactions

Course Code	ULP-21-ST043
Name of the Course in English	Poisonous Fishes
Name of the Course in Turkish	Zehirli Balıklar
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Yrd. Doç. Dr. Selçuk BERBER
ECTS Credit	7,5
COMU Credit	4
Description	Introduction of poisonous fish species distributed on different geography in the world. The possible utilization of these fishes

	for human consumption. Characteristics of poisonous fishes in Turkish waters will be compared with those of other species around the world
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Course Code	ULP-21-ST044
Name of the Course in English	Mediterranean Deep-Sea Biology
Name of the Course in Turkish	Akdeniz'in Derin Deniz Biyolojisi
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Doç. Dr. Suat ATEŞ
ECTS Credit	7,5
COMU Credit	4
Description	Deep-sea environment of the Mediterraneanis presented in the point of view geological, hydrological, biological and fisheries.

Course Code	ULP-21-ST045
Name of the Course in English	Aquarium Plants Culture
Name of the Course in Turkish	Akvaryum Bitkileri Yetiştiriciliği
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Doç. Dr. Mehmet AKBULUT
ECTS Credit	7,5
COMU Credit	3

Description	Aquarium plants which provide shelter and reproduction areas for aquarium fish production, culture techniques. Importance of culture methods such as nutrients, light regimes and temperature of aquatic plants.
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Course Code	ULP-21-ST046
Name of the Course in English	Biofouling and Control Technology
Name of the Course in Turkish	Fouling Organizmalar ve Kontrol Teknolojisi
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Yrd. Doç. Dr. Ekrem Şanver ÇELİK
ECTS Credit	7,5
COMU Credit	4
Description	Biofouling organisms, problems due to biofouling, antifouling paints and its environmental pollution, biotechnological approach to biofouling control.

Course Code	ULP-21-ST047
Name of the Course in English	Bioecology of Mollusca
Name of the Course in Turkish	Mollusca (Yumuğakça) Biyoekolojisi
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Doç. Dr. Suat ATEŞ

ECTS Credit	7,5
COMU Credit	3
Description	Mollusca phylum on the earth is second phylum of the Arthropoda on account of species richments. Also, the phylum is used as biomonitoring species. The aim of the lesson is to understanding of the species taxonomy, biology and ecology of those species.

Course Code	ULP-21-ST048
Name of the Course in English	Marine Benthology
Name of the Course in Turkish	Fauling Organizmalar ve Kontrol Teknolojisi
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Doç. Dr. Suat ATEŞ
ECTS Credit	7,5
COMU Credit	4
Description	Sdescriptions and details of the benthic organisms, their ecology and distributions, also their biodiversity.

Course Code	ULP-21-ST049
Name of the Course in English	Freshwater Crayfish Culture
Name of the Course in Turkish	Tatlı Su İstakozu Yetiştiriciliği

Language of the Course	English
Level of the Course	Doctorate
Lecturer	Yrd. Doç.Dr. Selçuk BERBER
ECTS Credit	7,5
COMU Credit	3
Description	Systematic classification, morphologic features, natural life cycle (Growth molting and reproduction) and habitat preference of crayfish. Principal cultivated crayfish species. Artificial breeding method. Catching transporting, product handling and marketing. Production in Turkey and its problems.

Course Code	ULP-21-ST050
Name of the Course in English	Fish Endocrinology
Name of the Course in Turkish	Balık Endokrinolojisi
Language of the Course	English
Level of the Course	Doctorate
Lecturer	Yrd. Doç. Dr. Ekrem Şanver ÇELİK
ECTS Credit	7,5
COMU Credit	3
Description	Hypophysis, adrenal gland, thyroid gland, endocrine pancreas and gastro-intestinal hormones; gonads and hormones, pineal organs, ultimobranchial organs and stannius corpuscles; pheromones, emigration of hormones, skin pigmentations and significance in osmoregulation; hormones in aquaculture.

Course Code	ULP-21-ST051
Name of the Course in English	Marine Benthology
Name of the Course in Turkish	Denizel Bentoloji
Language of the Course	English
Level of the Course	Master
Lecturer	Doç. Dr. Suat ATEŞ
ECTS Credit	7,5
COMU Credit	3
Description	Identifying the structure of marine benthic communities is crucial for trofic (food) chain seas. This course contains the sampling methods, phylogenies, identifications and ecologies of benthic organisms occurring in marine environment.