

MunzurUniversity
Faculty of Fisheries

2018/2019 AcademicYear
List of courses

Code/Credits	Course	Semester Winter / Spring	Contents	ContactDetails of Lecturer	Department
TSU104	Ecology	Spring	Subjects of ecology and its sections, ecological factors and their effects on organisms, population and structural characteristics, population dynamics, community and their properties, the concept of ecosystem-elements-functional properties, matter cycles in ecosystems.	Name-Surname:Banu KUTLU E-mail: banukutlu@munzur.edu.tr Tel:(428) 2125915-2535	Faculty of Fisheries - Fisheries Engineering
TSU102	Aquatic Plants	Spring	Biology of aquatic plants, cytologic and biochemical properties, morphology, growth, and life cycle. Characterization of aquatic plants, their ecology, ecological factors in their distribution, ecological classification of freshwater sytems and their biota; culture of	Name-Surname:Banu KUTLU E-mail: banukutlu@munzur.edu.tr Tel:(428) 2125915-2535	Faculty of Fisheries - Fisheries Engineering

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			aquatic plants, usage areas, cultured aquarium plants, description of culture techniques for Porphyra, Gracilaria, and Undaria.		
TSU 211	Oseanology	Winter	General characteristics of oceans, physiology of ocean bottom, sedimentation in oceans, general composition of seawater, synoptic- dynamic physical oceanography, marine ecology and living communities, marine resources- utilizing them and equipment used in oseanological research.	Name-Surname:Banu KUTLU E-mail: banukutlu@munzur.edu.tr Tel:(428) 2125915-2535	Faculty of Fisheries - Fisheries Engineering
TSU213	Aquatic Invertebrates	Winter	Main structures of animal systematics; biological, systematic and ecological features of invertebrates; general characteristics of economical important species of invertebrate	Name-Surname:Banu KUTLU E-mail: banukutlu@munzur.edu.tr Tel:(428) 2125915-2535	

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			groups from Protozoa to Echinodermata		
TSU 210	Planktology	Spring	The course will include a review of a general knowledge of marine planktonic organisms, improve the knowledge of marine plankton ecology, and try to describe mechanisms and relations, and the study of plankton. Terminology of limnoplanktonic organisms, taxonomy of phytoplankton and zooplanktoni indices releated to the limnoplankton, Limnoplanktonic biodiversity of Turkey.	Name-Surname:Banu KUTLU E-mail: banukutlu@munzur.edu.tr Tel:(428) 2125915-2535	Faculty of Fisheries - Fisheries Engineering
TSU305	Marine mammals, Birds and Reptiles	Winter	Systematics of marine mammals and reptiles, their general biology, evolutionary history, distinguishing features, distribution, biology, population status, behavior, and conservation.	Name-Surname:Banu KUTLU E-mail: banukutlu@munzur.edu.tr Tel:(428) 2125915-2535	Faculty of Fisheries - Fisheries Engineering

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TSU 316	Marine Biology	Spring	General characteristics of marine ecosystem; ecological classifications of marine environment; ecological classifications of living organisms; biotic and abiotic factors affecting marine organisms; energy flow and matter cycle in marine ecosystem; sampling gears used in marine studies.	Name-Surname: Banu KUTLU E-mail: banukutlu@munzur.edu.tr Tel:(428) 2125915-2535	Faculty of Fisheries - Fisheries Engineering
TSU306	Planktonology	Spring	The course will include a review of a general knowledge of marine planktonic organisms, improve the knowledge of marine plankton ecology, and try to describe mechanisms and relations, and the study of plankton. Terminology of limnoplanktonic organisms, taxonomy of phytoplankton and zooplankton indices related	Name-Surname: Banu KUTLU E-mail: banukutlu@munzur.edu.tr Tel:(428) 2125915-2535	

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			to the limnoplankton, Limnoplanktonic biodiversity of Turkey.		
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20.../20... AcademicYear
List of TraineeshipVacancy

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List of courses (Master of Science, M.Sc.)

Code/Credits	Course	Semester Winter / Spring	Contents	ContactDetails of Lecturer	Department
SM-5013/ 2+2, 3	Nutritional Requirements in Finfish and Feed Preparation	-	It will be explained importance of fish feeding, nutritional requirements of freshwater and sea finfish species; feed raw materials and rations and feed preparation	Name-Surname: Durali DANABAS E-mail: ddanabas@munzur.edu. tr Tel:	Institute of Science and Technology, Fisheries
SM-5046/ 3+0, 3	Fish Physiology	-	It will be explained the reproductive, urinary, feeding, respiration, circulatory and endocrine systems and their physiological principals in fish; and their interactions with internal and environmental factors; and their importance in aquaculture.	Name-Surname: E-mail: Tel:	
SM-5048/ 3+0,	ENDOCRİNOLOGİCAL APPLICATIONS IN	-	It will be explained the hormonal control	Name-Surname: E-mail:	

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3	AQUACULTURE		in inducing of gametogenesis and ovulation; hormonal and environmental control of fish reproduction; mechanism of sexual control; environmental and dietary effects on growth and metabolism in hormonal development; and using of endocrinological components in stress, adaptation, aquaculture, resistance to diseases	Tel:	
SM-5049/ 3+0, 3	Pigmentation in Fisheries	-	It will be explained importance, existence and affectability of pigmentation in fisheries, pigment kinds and cells structure, effects of pigments on pigmentation of especially fish, and however shrimps, crabs and others, carotene contents of planktonic organisms		

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			using in aquaculture and their effects on pigmentation of fish and effective components on pigmentation.		
SM-5050 /3+0, 3	COMPARATIVE FISH ENDOCRINOLOGY	-	It will be explained the endocrinology and chemical messengers in lives, anatomic and physiologic structures and hierarchical structure of endocrine system and its components and these components among lives groups (vertebrate, invertebrate, insect, bird, fish, reptile, mammalian etc.) as comparative.		

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List of courses (Philosophy of Doctorate, Ph.D.)

Code/Credits	Course	Semester Winter / Spring	Contents	ContactDetails of Lecturer	Department
SM-6048/ 3+0, 3	Fish Feeding Physiology and Biochemistry	-	It will be explained importance of fish feeding, nutritional requirements of freshwater and sea finfish species; feeding physiology; metabolism, growth, appetite-repletion, digestion and its enzymes; and nutrition components.	Name-Surname: Durali DANABAS E-mail: ddanabas@munzur.edu.tr Tel:	Institute of Science and Technology, Fisheries
SM-6019/ 3+0, 3	Feed Additives in Fish Feeding	-	It will be explained importance of fish feeding; nutritional requirements of freshwater and sea finfish species; feeding	Name-Surname: E-mail: Tel:	

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			physiology; nutrition components; mixed feeds in aquaculture; effects of feeds and process on feeding preparation; raw materials and properties, using preparing of mixed feeds and properties and effects of feed additives.		
				Name-Surname: E-mail: Tel:	

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List of courses (Bechalor Degree)

Code/Credits	Course	Semester Winter / Spring	Contents	ContactDetails of Lecturer	Department
TSU203 / 2+0, 2	Genetic	Winter	The historical development of genetics, the importance of genetics in our lives, genetic basic characteristics, heredity plans, mendel genetics, basic concepts about mutations.	Name-Surname: Durali DANABAS E-mail: ddanabas@munzur.edu.tr Tel:	Institute of Science and Technology, Fisheries
TSU311 / 1+2, 2	FISHERIES MECHANIZATION	Winter	The main topics covered in this course are; Introduction, live fish transport, fishery and transportation	Name-Surname: E-mail: Tel:	

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			of fishery products, water supply, drilling and water transmission systems, mechanization systems used in fishing boats and fish farming units.		
TSU308/ 2+2, 3	DESIGN OF AQUACULTURE FACILITIES	Spring	It will be explained the preparation of aquaculture facilities of commercial finfish species, of necessary projects to aquaculture, and of feasibility reports of pond, cage and hatchery facilities.	Name-Surname: E-mail: Tel:	
TSU401/2+2, 3	FISH FEEDING AND FEED	Winter	The most		

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	TECHNOLOGY		important points in aquaculture are fish feeding, nutrition determination of finfish species in culture stages. The make sense of feeding physiology provide an advantage for providing of this requirement. It will be explained feeding in fish, metabolism, appetite, enzymes, their properties and effects in digestion, nutrition		
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			components and their properties (proteins, lipids, carbohydrates, vitamins, etc.), fish feed technology, production technology of mixed feeds (equipments using in preparation of mixed feeds and stages of preparation of feeds), extraction, mixed feed machines (extruder systems, expander systems, pellet cooking and UP/C system).		
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TSU 313	SEAFOOD PROCESSING TECHNOLOGY	Winter	The state of seafood processing technology at present and in the future, biochemical rates of different seafood species and factors effecting these biochemical rates, chemical, physical, microbiological and sensory changes after catching, pre-processing technology (filleting etc.) in seafood, chilling, freezing, smoking, canning, salting, drying, marinating, surimi and packing technologies in seafood, fermented fish products, fish and shellfish waste utilization, practices of these processing techniques in different seafood	Name-Surname: Assoc. Prof. Dr. Gülderen Kurt Kaya E-mail: gkurtkaya@munzur.edu.tr Tel:5057217861	Faculty of Fisheries Department of Fish Processing Technology

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TSU 315	Design and Equipment of Seafood Processing Plants	Winter	General properties of seafood processing plants, the location, substructure, technical and physical conditions of seafood processing plant, characteristics of tools and equipment used in processing plants, the design and planning of a optimum processing unit, sections to be found in processing plants, the features of storage units, hygiene mechanism in processing plants, cleaning and disinfection applications, measures should be taken in seafood processing plants for personal hygiene, technical tour to regional seafood processing plants	Name-Surname: Assoc. Prof. Dr. Gülderen Kurt Kaya E-mail: gkurtkaya@munzur.edu.tr Tel:5057217861	Faculty of Fisheries Department of Fish Processing Technology
TSU 403	Food safety and quality management systems	Winter	Hygiene in the food industry, food safety, hazardous substances in the food	Name-Surname: Assoc. Prof. Dr. Gülderen Kurt Kaya E-mail: gkurtkaya@munzur.edu.tr	Faculty of Fisheries Department of Fish Processing Technology

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			industry prerequisite programs (GMP, GHP, GSP, etc.), HACCP system, BRC and IFS systems, changes brought about by ISO 22000 food safety management system and standards, HACCP and ISO 22000 manual, implementation phases of HACCP and ISO 22000 systems at seafood products processing plants; relevant documentation and record systems, integration of system to a seafood products processing plant the application of food safety management system in the food sector, introduction of quality management system, quality management systems, implementation of quality management systems in the food sector, the changes brought	Tel:5057217861	
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			about by the ISO 9001:2008 standard		
TSU 406	Seafood Quality Control	Spring	Importance and basic concepts of quality control in fisheries. Control of nutritional elements (crude protein, fat, minerals) in fisheries. Sensory, chemical, physical and microbiological analysis used in determining quality of fresh and processed products.	Name-Surname: Assoc. Prof. Dr. Gülderen Kurt Kaya E-mail: gkurtkaya@munzur.edu.tr Tel:5057217861	Faculty of Fisheries Department of Fish Processing Technology
TSU 420	Hygiene and Sanitation in Aquacultural	Spring	The basic principles of hygiene at aquacultural facilities and sanitation. Purpose and importance of food hygiene. The microbial ecology of seafood products. Health risks emanate from seafood products. Pathogenesis of food borne Infections. Food infection and intoxication. The importance of water used in cleaning <u>food premises</u> and production of food and water hygiene. Implementation of cleaning and disinfection. The	Name-Surname: Assoc. Prof. Dr. Gülderen Kurt Kaya E-mail: gkurtkaya@munzur.edu.tr Tel:5057217861	Faculty of Fisheries Department of Fish Processing Technology

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			classification of detergents and disinfectants used and the properties they should have. Microbiological control methods. Personnel hygiene. Seafood markets disinfection. Importance of hygiene at Seafood transportation		
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