



T.C.
Akdeniz University
Faculty Of Fisheries
Department Of Aquaculture Engineering Department
Course Contents

2.CLASS FALL

Lesson Code : SÜM 263	Lesson Name : Scientific Research Methods in Fisheries	T+U : 2+0	Credit : 2	ECTS : 3
Content of the Course : In this course, student will learn; what is scientific research?, how many different research are there, qualitative and quantitative researches, place and importance of technology in scientific research, preparing a project or thesis proposal in scientific research, collecting data (questionnaire, observation, scientific project and article writing, scientific project presentation forms, science ethics and publication ethics, programs used for publishing research.				
Lesson Code : SUM 251	Lesson Name : Marine Meteorology	T+U : 2+0	Credit : 2	ECTS : 2
Content of the Course : Information about materials used in fisheries sector, type of protection methods for materials used in fisheries sector				
Lesson Code : SUM 223	Lesson Name : Computer Based Technical Drawing	T+U : 2+0	Credit : 2	ECTS : 3
Content of the Course : Basic rules technical drawing, coputer based drawing softwares, Autocad, creating a project, adjusting settings, scaling and plotting				
Lesson Code : SÜM 401	Lesson Name : History and Development of Fisheries	T+U : 2+0	Credit : 2	ECTS : 3
Content of the Course : The first section of the course covers activities of catching fish in ancient times (stone,bronze and iron ages),Mesopotamia and Egypt and other Mediterranean cultures.The second section includes fishing activites in Anotolia and Europe during middle ages and modern (new)times and the last section covers developments in modern fisheries and associated mechanisation.				
Lesson Code : SUM-488	Lesson Name : Navigation	T+U : 2+2	Credit : 3	ECTS : 3
Content of the Course : Definition of navigation, Development of navigation tools and methods, shape, movements and coordinate system of the earth, knots and directions concept, Map projections, sea maps, symbols and abbreviations, lanterns, float system, compasses and bearing.				
Lesson Code : SUM 446	Lesson Name : Live Feed Production	T+U : 2+0	Credit : 2	ECTS : 3
Content of the Course : Importance of live feed in larval nutrition. Specifications of microalgae used in aquaculture. Demonstration of materials used for alg culture. Filtration techniques. Culture mediums for alg culture and preparations of them. Production stages. Biology and reproduction of rotifer. Culture conditions of rotifer and enrichment. Harvesting, counting and storage of rotifer. Distribution and biology of Artemia. Obtaining of artemia cysts. Opening conditions of artemia cysts. Obtaining nauplii and metanauplii and enrichment.				
Lesson Code : SUM 439	Lesson Name : Algalogy	T+U : 2+0	Credit : 2	ECTS : 3
Content of the Course : Morphology (single cell, flagellum / whipped colonies, rhizopodial / protococcal types, siphon / parankimatik thallus etc.), reproduction (vegetative, sexual and asexual reproduction, reproductive organs), physiology, ecology of algae and the definition of economic importance.				
Lesson Code : SUM 205	Lesson Name : Fish Biology	T+U : 2+2	Credit : 3	ECTS : 3
Content of the Course : Morphological fishes (parts of the body, fins and positions) and the anatomical structures and the fishes' digestive system, circulatory system, respiratory system, reproductive system, muscular system, endocrine system, nervous system, excretory system, and osmo- regulation functions, electric organs, skin and structure, stamps , chromatophores, the color and the coloration, bioluminescence organs, glands and the poison spurs, are given.				

Lesson Code : SUM 203	Lesson Name : Biochemistry	T+U : 2+2	Credit : 3	ECTS : 3
Content of the Course : In this course, the basic concepts of statistics that will help students in their own research of interest is given, and illustrated with examples. The course includes some basic statistical techniques, probability, parametric and non-parametric methods, chi-square test, correlation and regression analysis.				
Lesson Code : SUM 207	Lesson Name : General Microbiology	T+U : 2+2	Credit : 3	ECTS : 3
Content of the Course : Introduction, microorganisms, bacteria, viruses, fungi, parasites, immunology				
Lesson Code : SUM 215	Lesson Name : Basic laboratory Technique	T+U : 2+0	Credit : 2	ECTS : 3
Content of the Course : Basic knowledge about laboratory, solutions, titration, laboratory safety, laboratory equipments and machines				
Lesson Code : SUM 213	Lesson Name : Aquatic Invertebrates	T+U : 2+2	Credit : 3	ECTS : 3
Content of the Course : Course is designed for the students of Faculty of Aquatic Resources. It provides detailed insight on main aquatic invertebrate groups (Porifera, Cnidaria, Ctenophora Platyhelminthes, Nemertea, Mollusca, Annelida, Arthropoda, Echinodermata and Chordata). Students will gain an understanding on aquatic invertebrate classification; body structure and organization (Body symmetry, Body cavities, Segmentation); biological processes (Locomotion and Support, Feeding Mechanisms, Circulation and Gas Exchange, Nervous Systems and Sense Organs, Reproduction). Moreover, course will provide knowledge on ecological and economic importance of aquatic invertebrates distributed in the Turkish Seas.				
Lesson Code : SUM 209	Lesson Name : Oceanology	T+U : 2+0	Credit : 2	ECTS : 2
Content of the Course : Historical development of the Oceanography, general properties of earth and oceans; Physiographic of ocean bottom (continental edges, trenches, ridges), sedimentations and sources; general components of sea waters, dissolved inorganic and organic matters and gases; sea temperature, salinity, pressure, optical and acoustic properties, currents, waves, tides; flora, fauna and systematic, marine ecology; marine sources and utilization and beneficiary, oceanographic researches and their devices.				