



2023-2024 Academic Year
List of Courses Offered in Foreign Language
2023-2024 Akademik Yılı
Yabancı Dilde Açılacak Dersler Listesi

Faculty/Institute/Vocational School of/School of Fisheries
Su Ürünleri Fakültesi/Enstitüsü/MYO/Yüksekokulu

| | Department <i>Bölüm</i> | Course Code <i>Ders Kodu</i> | ECTS <i>AKTS</i> | Course Title <i>Dersin Adı</i> | Semester <i>Dönem</i> | Course Content <i>Dersin İçeriği</i> | Academic Staff <i>Dersi Veren Öğretim Elemanı</i> | Online Available <i>Çevrimiçi</i> |
|---|---|--|----------------------------|---|---------------------------------|---|---|---|
| 1 | Aquatic Basic Sciences Su Ürünleri Temel Bilimler | ESTB | 4 | MOLECULAR BIOLOGICAL APPROACH IN FISHERIES AND AQUATIC SCIENCES | Spring Bahar | Introduction to molecular biology, structures of amino acids, nucleotides and nucleic acids, structures of prokaryotic and eukaryotic DNA and RNA, RNA types, Mitochondrial DNA, vectors, plasmid, and bacteriophages, gene isolation and cloning, recombination and DNA repair mechanisms, DNA replications, transcription and translations and protein synthesis. | Assoc. Prof. Dr. İ. TÜLAY ÇAĞATAY | Online Çevrimiçi |
| 2 | Aquatic Basic Sciences Su Ürünleri Temel Bilimler | ESTB | 4 | MOLECULAR BIOLOGICAL AND GENETICAL TECHNIQUES IN FISHERIES AND AQUATIC SCIENCES | Spring Bahar | Application of molecular biological techniques in Fisheries and Aquatic sciences, introduction of laboratory instruments, purifications of DNA and RNA from different tissues, isolation of plasmids, recombinant DNA technologies, PCR, agarose gel electrophoresis, restriction endonucleases, cloning technologies, production of cDNAs, application of RFLP, Real time PCR, Western and Northern Blots, primer design, DNA sequencing, International database in molecular biology and their application. | Assoc. Prof. Dr. İ. TÜLAY ÇAĞATAY | Online Çevrimiçi |
| 3 | Aquatic Basic Sciences Su Ürünleri Temel Bilimler | ESTB | 4 | ADVANCED MICROBIOLOGY | Spring Bahar | In this course, student will learn; the classification of water microorganisms, prokaryotes (archaea, cyanobacteria and bacteria), eukaryotes (algae, protozoa, fungi) and viruses, bacterial physiology and metabolism, marine and fresh water microorganisms, agents of waterborne diseases, nutrient cycles of microorganisms, waste water microbiology, bioremediation and microbial mining. | Assoc. Prof. Dr. İ. TÜLAY ÇAĞATAY | Online Çevrimiçi |