|  |
| --- |
| **COURSE IDENTIFICATION FORM** |
| **Course Code and Name:** SM-553 Diagnosis and Laboratory Techniques in Fish Disease | **Department of :** |
|

|  |
| --- |
| **Semester** |

 | **Theoretic Hour** | **Practice Hour** | **Total Hour** | **Credits** | **ECTS** | **Education Language** | **Type: Compulsory Elective** |
| Fall | 2 | 2 | 3 | 3 | 6 | Turkish | Optional |
| **Prerequisite (s)** |  |
| **Instructor** | Prof. Dr. Azime KÜÇÜKGÜL | **Mail : akucukgul@munzur.edu.tr** **Web :** |
| **Course Assistant** |  | **Mail :****Web :** |
| **Groups / Classes** |  |  |
| **Course Aim** | The aim of the course is to enable the effects to fisheries of diseases seen in fish farmed or natural environment in our country and the world, the diagnostic methods of diseases, disease definitions, the place systematically of disease agents, the theoretical and practical of fish diseases sourced parasites, bacteria, fungi, viruses, nutritional, genetic and environmental |
| **Course Goals** | * The effects on the fisheries sector of fish diseases, the fish inspection methods, recognition and treatment of disease types, laboratory practices and information and interpretation of experimental results.
 |
| **Course Learning Outs and Proficiencie*s*** | * Will learn diagnostic methods related to fish diseases and bacterial, viral, parasitic diseases and agents
* Will be able to learn work done under sterile conditions in the laboratory.
* Will understand fish diseases and treatment methods
* Will be able to learn and review Postmortem and live examination of the fish diseases and the points to be considered
 |
| **Course Basic and Auxiliary Contexts** | * Balık Hastalıkları Gülşen TİMUR, Metin TİMUR İst. Üniv. Su Ürünleri Fak. Diseases of fish Edited by Lionel E Mawdesley Thomas The Zoolopical Soc. London 1972
* Mikrobial Fish Discase Laboratory Manual John A. Plumb and Paul R. Bowser Auburn Univ. Alabama. USA
* Pratik Mikrobiyoloji Prof.Dr. Enver Tali Çetin İst. Üniv. Tıp Fak. Mikrobiyoloji Kür.
 |
| **Methods of Give a Lecture** | Lecture, The relevant notes from application, Question-answer, Discussion, Individual study, Relevant web information |

|  |  |  |  |
| --- | --- | --- | --- |
| **Assessment Criteria** |  | **If Available, to Sign (x)** | **General Average Percentage (%) Rate** |
| **1. Quiz** | **X** | **40** |
| **2. Quiz** |  |  |
| **3. Quiz** |  |  |
| **4. Quiz** |  |  |
| **5. Quiz** |  |  |
| **Oral Examination** |  |  |
| **Practice Examination (Laboratory, Project etc.)** |  |  |
| **Final Examination** | **X** | **60** |
| **Semester Course Plan** |
| **Week** | **Subjects** |
| **1** | Introduction to fish diseases  |
| **2** | Major diseases seen in fish and general mechanism of disseases  |
| **3** | Bacterial, viral, parasitic diseases and factors |
| **4** | Diagnostic methods related to fish disease |
| **5** | Systematic examination of the fish diseases |
| **6** | Treatment methods of fish diseases |
| **7** | Working practices under sterile conditions in the laboratory  |
| **8** | Intermediate exam |
| **9** | Bacterial fish disease diagnosis methods |
| **10** | Parasitic fish disease diagnosis methods  |
| **11** | Fungal fish disease diagnosis methods |
| **12** | Viral fish disease diagnosis methods |
| **13** | Fish disease diagnosis methods sourced nutrition  |
| **14** | Final exam |