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| **COURSE IDENTIFICATION FORM** |
| **Course Code and Name:**  **SM5048-Endocrinological Applications in Fish Farming** | **Department of : Fisheries Faculty** |
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| **Semester** |

 | **Theoretic Hour** | **Practice Hour** | **Total Hour** | **Credits** | **ECTS** | **Education Language** | **Type: Compulsory Elective** |
| Fall | 2 | 2 | 4 | 3 | 6 | Turkish | **Elective** |
| **Prerequisite (s)** |  |
| **Instructor** | Assoc. Prof. Dr. Filiz KUTLUYER KOCABAŞ | **Mail : fkutluyer@munzur.edu.tr****Web :** |
| **Course Assistant** |  | **Mail :****Web :** |
| **Groups / Classes** |  |  |
| **Course Aim** | In the course, a wide range of topics such as the endocrine system in fish, hormones, hormones in aquaculture and biotechnological applications will be covered. |
| **Course Goals** | * This course aims to provide students with the necessary knowledge about the endocrine system in fish, care, feeding and protection from diseases, ensuring that they can maintain their normal physiological activities, endocrinological practices and increasing productivity.
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| **Course Learning Outs and Proficiencie*s*** | * He/she gain information about the endocrine system, sex control, biotechnological applications and production success in fish.
* He/she interprets the relationship between endocrinological practices and production success in fish farming.
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| **Course Basic and Auxiliary Contexts** | * Kumar S and Tembhre M (1996); Anatomy and Physiology of Fishes, Vikas Publishing House Pvt Ltd, India. pp. 152-156
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| **Methods of Give a Lecture** | Face to face |

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| **Assessment Criteria** |  | **If Available, to Sign (x)** | **General Average Percentage (%) Rate** |
| **1. Quiz** | **X** | **50** |
| **2. Quiz** |  |  |
| **3. Quiz** |  |  |
| **4. Quiz** |  |  |
| **5. Quiz** |  |  |
| **Oral Examination** |  |  |
| **Practice Examination (Laboratory, Project etc.)** |  |  |
| **Final Examination** | **X** | **50** |
| **Semester Course Plan** |
| **Week** | **Subjects** |
| **1** | Introduction to Aquaculture |
| **2** | Glands and Hormones |
| **3** | Thyroid Hormones |
| **4** | Use of Hormones or Feed Additives with Hormonal Effects in Fish Farming |
| **5** | Sperm Quality in Fish |
| **6** | Endocrine System in Fish |
| **7** | Midterm exam |
| **8** | Egg Quality in Fish |
| **9** | Masculinization |
| **10** | Feminization |
| **11** | Stripping |
| **12** | Hormone Applications |
| **13** | Endocrinological Applications |
| **14** | Final exam |