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| **COURSE IDENTIFICATION FORM** |
| **Course Code and Name:**  **SM5018-** **Sex Control 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 | 3 | 0 | 3 | 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 variety of topics such as sex control in aquaculture, biotechnological applications, and increasing broodstock productivity will be covered. |
| **Course Goals** | * This course aims to provide students with the necessary information on broodstock management, care, feeding and protection from diseases, ensuring that they can maintain their normal physiological activities, gender control and practices and increasing productivity.
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| **Course Learning Outs and Proficiencie*s*** | * He/she gains knowledge about sex control, biotechnological applications and production success in fish farming.
* He/she interprets the relationship between sex control and production success in fish farming.
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| **Course Basic and Auxiliary Contexts** | * Davenport J., Black K., Burnell G., Cross T., Culloty S., Ekaratne S., Furness B., Mulcahy M., Thetmeyer H. (2003). Aquaculture: The Ecological Issues. British Ecological Society, Blackwell, Oxford.
 |
| **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** | Sperm Cryopreservation in Fish |
| **7** | Midterm exam |
| **8** | Egg Quality in Fish |
| **9** | Masculinization |
| **10** | Feminization |
| **11** | Stripping |
| **12** | Hormone Applications |
| **13** | Brootstock Management Techniques |
| **14** | Final exam |