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| **COURSE IDENTIFICATION FORM** |
| **Course Code and Name:**  **SM5017-** **Broodstock Management 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 range of topics will be covered, such as keeping fish in conditions close to the conditions they are exposed to in the natural environment and increasing broodstock productivity. |
| **Course Goals** | * This course aims to provide students with the necessary knowledge on broodstock management, care, feeding and protection from diseases, ensuring that they can maintain their normal physiological activities and increasing productivity.
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| **Course Learning Outs and Proficiencie*s*** | * He/she have knowledge about broodstock management and productivity in fish farming.
* He/she interprets the relationship between broodstock management and production success in fish farming.
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| **Course Basic and Auxiliary Contexts** | Allendorf, F.W. ve Ryman, N. 1987. Genetic Management of Hatchery Stcoks. In: Population genetics and Fisheries Management (N. Ryman ve F. Utter, editors), pp.141-159. Washington Sea Grant Program, Uni. Of Washignton Press, Seattle.  |
| **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** | Stocking |
| **10** | Growth and Feeding |
| **11** | Stripping |
| **12** | Hormone Applications |
| **13** | Brootstock Management Techniques |
| **14** | Final exam |