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| **COURSE IDENTIFICATION FORM** |
| **Course Code and Name:**SM-546 Fish Physiology | **Department of :**Fisheries M.Sc. |
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| **Semester** |

 | **Theoretic Hour** | **Practice Hour** | **Total Hour** | **Credits** | **ECTS** | **Education Language** | **Type: Compulsory Elective** |
|  | 3 | 0 | 3 | 3 | 5 | Turkish | Optional |
| **Prerequisite (s)** | None |
| **Instructor** | Prof. Dr. Durali DANABAŞ | **Mail : ddanabas@munzur.edu.tr****Web :** |
| **Course Assistant** |  | **Mail :****Web :** |
| **Groups / Classes** |  |  |
| **Course Aim** | The aim of this course is to provide gripping of students the reproductive, urinary, feeding, respiration, circulatory and endocrine systems and their physiological principals in fish; and their interactions with internal and environmental factors; and their importance in aquaculture.  |
| **Course Goals** | It will be explained the reproductive, urinary, feeding, respiration, circulatory and endocrine systems and their physiological principals in fish; and their interactions with internal and environmental factors; and their importance in aquaculture.  |
| **Course Learning Outs and Proficiencie*s*** | 1. He will be able to grip shortly anatomical structures and their physiological principals in fish.  1.1. He knows anatomical structures of reproductive, urinary, feeding, respiration, circulatory and endocrine systems.  1.2. He knows physiological principals of systems. 2. He will be able to learn their interactions of these systems with internal and environmental factors. 2.1. He comments interactions of systems with different factors.  2.2. He distinguishes their effects. 3. He will be able to know importance of these systems and their physiological components in aquaculture. 3.1. He knows physiological principals of systems in fish and how to be able to affect them.  3.2. He distinguishes importance of these systems in aquaculture. |
| **Course Basic and Auxiliary Contexts** | * Sarıhan, E., Cengizler, İ., 2006. Temel Balık Anatomisi ve Fizyolojisi, Adana Nobel Kitabevi Yayınları, Adana, 172s.
* Timur, M., 2006. Balık Fizyolojisi. Nobel Yayın Dağıtım, Nobel Yayın No: 957, Ankara, 183s.
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| **Methods of Give a Lecture** | Lecture, Question and answer, Discussion, Brain storming, Individual work |

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| **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** | 1. Week: The systems in fish,
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| **2** | 1. Week: Feeding physiology in fish, ,
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| **3** | 1. Week: Blood and circulatory physiology in fish ,
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| **4** | 1. Week: Respiration physiology in fish ,
 |
| **5** | 1. Week: Reproductive physiology in fish ,
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| **6** | 1. Week: Feeding physiology in fish,
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| **7** | 1. Week: Kidney and ions physiology in fish,
 |
| **8** | 1. Week: Vise,
 |
| **9** | 1. Week: Endocrine system and physiology in fish
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| **10** | 1. Week: Movement physiology in fish,
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| **11** | 1. Week: Nervous system physiology in fish,
 |
| **12** | 1. Week: Sense organs and physiologies in fish,
 |
| **13** | 1. Week: Behavioral physiologies in fish,
 |
| **14** | 1. Week: Investigation and discussion of articles related to impressing of physiological components in aquaculture,
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