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| **COURSE IDENTIFICATION FORM** |
| **Course Code and Name:** **Aquatic Macro Invertebrates** | **Department of : Fisheries** |
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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 | Optional |
| **Prerequisite (s)** |  |
| **Instructor** | Assoc. Dr. Osman Serdar | **Mail :**  oserdar@munzur.edu.tr**Web :** |
| **Course Assistant** |  | **Mail :****Web :** |
| **Groups / Classes** |  |  |
| **Course Aim** | To provide the systematic, indicator, toxicological, ecosystem importance and bio-ecological features of the large invertebrates living in the aquatic environment. |
| **Course Goals** | * Recognizes large invertebrate creatures in the aquatic bottom environment.
* Understand the importance of aquatic bottom invertebrates in the ecosystem
* Relationship between indicator indices and bottom invertebrate organism is learned.
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| **Course Learning Outs and Proficiencie*s*** | * To be able to give information about the structure of the aquatic environment benthic region and bentos
* Understand how to make base sampling and laboratory procedures
* To understand the concept of indicator type
* To determine the biotic and abiotic factors affecting the distribution of benthic communities
* To comprehend the importance of base invertebrates in determining the ecological quality status and toxicological studies.
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| **Course Basic and Auxiliary Contexts** | * Published current SCI articles
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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** | **30** |
| **2. Quiz** |  |  |
| **3. Quiz** |  |  |
| **4. Quiz** |  |  |
| **5. Quiz** |  |  |
| **Oral Examination** |  |  |
| **Practice Examination (Laboratory, Project etc.)** | **X** | **30** |
| **Final Examination** | **X** | **40** |
| **Semester Course Plan** |
| **Week** | **Subjects** |
| **1** | Benthic sampling methods and laboratory procedures |
| **2** | Benthic sampling methods and laboratory procedures |
| **3** | Benthic sampling methods and use of diagnostic key |
| **4** | Benthic sampling methods and use of diagnostic key |
| **5** | Benthic sampling methods and use of diagnostic key |
| **6** | Taxonomic groups and indicator species |
| **7** | Taxonomic groups and indicator species |
| **8** | Taxonomic groups and indicator species |
| **9** | Taxonomic groups and indicator species |
| **10** | Taxonomic groups and indicator species |
| **11** | The importance of bottom invertebrates in ecosystem, their usage in toxicological studies |
| **12** | The importance of bottom invertebrates in ecosystem, their usage in toxicological studies |
| **13** | The importance of bottom invertebrates in ecosystem, their usage in toxicological studies |
| **14** | The importance of bottom invertebrates in ecosystem, their usage in toxicological studies |