**DESCRIPTION OF INDIVIDUAL COURDE UNITS**

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| Course Unit Title and Code: SM 6016 Fish Ecology | Programme Title: Fisheries PhD |
| Semester | The Methods of Education (ECTS) |  |
| Theoretical | Practice | Lab. | Project Work | Other | Total | ECTS |
| 2 | 2 | - | - |  |  | 2 | 4 |
| Languish of Course Unit  | Turkish |
| Type of Course Unit (Compulsory/Elective) | Elective |
| Preconditions | None |
| **Name of Lecturer** | Prof. Dr. Rahmi AYDIN |
| Class | PhD |
| Objectives of Course Unit | Describe the ecological characteristics of fish species, fish and disclosure of mutual relations between abiotic-biotic  |
| **Teaching Techniques**  | Lecture, question and answer, discussion, brain storming, individual work |
| **Course Unit Contents** | Biotic-abiotic relationships between fish and their environment, water density and pressure, salinity, temperature, pH content, gas, water, depending on the movement of fish swimming patterns, fish life-cycle characteristics, biotic relationships between the types of fish, fish reproduction and development of fish species intra-familial relationships, population dynamics, kinship relations between species, explanation of its relations with other species of fish species, age and growth, migration patterns of fish (breeding, feeding and wintering), Fish systematic features, the importance of taxonomy and systematics |
| Recommended or Required Reading | 1. Omurgalı Hayvanlar (Kuru, M., )
2. Ecology of Fishes (Nikolsky, G.V., 1963)
3. Balık Sistematiği (Bat ve diğ., 2008)
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| Learning Outcomes | 1. Exhibit adaptive features a number of species, depending on their environment.
2. Systematic knowledge about the location of vertebrates
3. Water density and pressure, salinity, temperature, pH content, learn about gases
4. Have the theoretical knowledge about groups of vertebrates.
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| Weekly Detailed Course Contents | 1. Biotic-abiotic relationships between fish and their environment
2. The density of water and pressure, salinity, temperature, pH, content of gases
3. Depending on the movement patterns of fish swimming in the water
4. Fish life cycle characteristics
5. Biotic relationship between fish species
6. Fish reproduction and development
7. Relationships between the types of fish
8. Mid-Term exam
9. Population Dynamics
10. Phylogenetic relationships between species
11. Explanation of its relations with other species of fish species
12. Age and growth
13. Fish migration patterns (breeding, feeding and wintering)
14. Fish systematic features
15. Final Exam
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