**DESCRIPTION OF INDIVIDUAL COURDE UNITS**

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| Course Unit Title and Code: SM-5069 Age Determination Methods of Fishes | Programme Title: Fisheries Post Graduate |
| Semester | The Methods of Education (ECTS) |  |
| Theoretical | Practice | Lab. | Project Work | Other | Total | ECTS |
| 1 | 2 | 2 | - |  |  | 3 | 5 |
| Languish of Course Unit  | Turkish |
| Type of Course Unit (Compulsory/Elective) | Elective |
| Preconditions | None |
| **Name of Lecturer** | Prof. Dr. Rahmi AYDIN |
| Class | Post Graduate |
| Objectives of Course Unit | The importance of determining the age of fish and provide sufficient information about the methods of age determination |
| **Teaching Techniques**  | Lecture, question and answer, discussion, brain storming, individual work |
| **Course Unit Contents** | Fish age determination methods, the use of fish known age, length-frequency analysis, the use of bony structures, to be bony structures, cleaning and storage, microscopic evaluation of bony structures, data analysis and interpretation of age |
| Recommended or Required Reading | 1. Polat, N., 2000. Balıklarda Yaş Belirlemenin Önemi. IV. Su Ürünleri Sempozyumu, 28-30 Haziran 2000, Erzurum, 9-20.Populasyon dinamiği (Dursun Avşar, 2005)
2. Balık Biyolojisi Araştırma Yöntemleri (Mehmet Karataş, 2005)
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| Learning Outcomes | 1. Understands the importance of determining the age of fish.
2. Learn about how to apply the methods of age determination
3. Taking a different bony structures
4. Age determination and evaluation of the preparations
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| Weekly Detailed Course Contents | 1. Introduction
2. Growth and age determination methods (known age fish)
3. Growth and age determination methods (2 Length Frequency Analysis)
4. Growth and age determination methods (Bony structures)
5. Back Calculation
6. Taking bony structures
7. Be adapted to the bony structures for age estimation
8. Mid-Term exam
9. Determination of Ideal bony structure
10. Age data using statistical evaluation of programs
11. Age data using statistical evaluation of programs
12. Age data using statistical evaluation of programs
13. The realization of a freshwater fish and a marine fish, age determination procedures
14. The realization of a cartilaginous species of fish age determination procedures
15. Final Exam
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