**DESCRIPTION OF INDIVIDUAL COURDE UNITS**

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| Course Unit Title and Code: SM- 5070 Special Topics in Fish Systematic | Programme Title: Fisheries Post Graduate |
| Semester | The Methods of Education (ECTS) |  |
| Theoretical | Practice | Lab. | Project Work | Other | Total | ECTS |
| 1 | 3 | - | - |  |  | 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 main objectives of this course are to be learning of significance and principles of classification, taxonomic units and naming technique, systematic status and evolution of fish, important morphological and anatomical characters in fish taxonomy, the distribution of freshwater and marine fish and, families and species of jawless, cartilaginous and bony fishes. |
| **Teaching Techniques**  | Lecture, question and answer, discussion, brain storming, individual work |
| **Course Unit Contents** | The significance of classification, The principles of classification, Taxonomic units, Naming technique, Systematic status of fish, The evolution of fish (Primitive fishes, Early jawed fishes, Cartilaginous fishes, Bony fishes), Metric, meristic and anatomical characters, The distribution of freshwater and marine fish, Families and species of jawless fish, Families and species of cartilaginous fishes, Families and species of bony fishes. |
| Recommended or Required Reading | 1. Bat, L., Erdem, Y., Ustaoğlu-Tiral, S., Yardım, Ö. (2008). Balık Sistematiği. Nobel Yayın Dağıtım Tic.Ltd. Şti. Ankara.
2. Ekingen, G. (1988). Balık Sistematiği. Tolga Ofset. Elazığ. Demir, N. (2006). İhtiyoloji. Nobel Basımevi. Ankara. (Bölüm 2, 16, 18).
3. Demirsoy, A. (1988). Yaşamın Temel Kuralları, Omurgalılar/Anamnyota. Hacettepe Üniv. Yayınları. Ankara. (Bölüm 36-38)
4. Moyle, P.B., Cech, J.J. (1988). Fishes and Introduction to Ichthyology. Prentice Hall, New Jersey. (Bölüm 3, 4, 5)
5. Kuru, M. (2007). Omurgalı hayvanlar. Palme Yayıncılık, Ankara
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| Learning Outcomes | 1. To understand significance and principles of classification
2. To learn the evolution and classification of fish
3. To distinguish between important morphological characters in fish taxonomy
4. To learn the distribution of fish on Earth
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| Weekly Detailed Course Contents | 1. The significance and principles of classification, taxonomic units, naming technique, evolution of fish, metric, meristic and anatomical characters.
2. General characteristics of the fish, systematics of the upper categories and their properties, The distribution of freshwater fish, The distribution of marine fish.
3. Families, general properties and species.
4. Families, general properties and species.
5. Families, general properties and species.
6. Families, general properties and species.
7. Families, general properties and species.
8. Mid-Term exam
9. Families, general properties and species.
10. Families, general properties and species.
11. Families, general properties and species.
12. Families, general properties and species.
13. Families, general properties and species.
14. Families, general properties and species.
15. Final Exam
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