**DESCRIPTION OF INDIVIDUAL COURDE UNITS**

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| Course Unit Title and Code: SM 6042 Potamology | Programme Title: Fisheries PhD |
| Semester | The Methods of Education (ECTS) |  |
| Theoretical | Practice | Lab. | Project Work | Other | Total | ECTS |
| 1 | 2 | - | - |  |  | 2 | 5 |
| 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 | The main objectives of this course are to be learning of the importance and place in Limnology, Stream hydrology, geomorphology and channel formation, physical and chemical characteristics of stream, Stream biota, Trophic relationships, Predation, herbivory, competitive interactions, Streams of Turkey and their characteristics, and Stream management. |
| **Teaching Techniques**  | Lecture, question and answer, discussion, brain storming, individual work |
| **Course Unit Contents** | Stream definition, Importance of stream and Stream in Limnology, Stream hydrology, Geomorphological features and Channel formation, Physical and Chemical characteristics of stream, Stream biota (Vegetation, Invertebrates, Vertebrates), Food chain in stream, Microbial food chain, Predation, Herbivory and Competitive interactions, River basins in Turkey, The geological, physical, chemical and biological features of Turkey streams, Stream modification, Climate change impacts on streams, Exotic species and its effects, Recovery and restoration of streams. |
| Recommended or Required Reading | 1. Allan, J.D. (1997). Stream Ecology (Structure and function of running waters). Chapman & Hall, London. Moss, B. (1988).
2. Ecology of Fresh Water (Man and Medium). Blackwell Scientific Publications. London. Calow, P., Petts, G.E. (1992).
3. The river handbook: Hydrological and ecological principles (Volume I). Blackwell Scientific Publications. London.
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| Learning Outcomes | 1. To learn concepts of stream hydrology, geomorphology and channel formation.
2. To distinguish physical and chemical characteristics of stream.
3. To distinguish stream biota.
4. To distinguish stream trophic relationships.
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| Weekly Detailed Course Contents | 1. Stream definition, Importance of stream and Stream in Limnology; Stream hydrology, Geomorphological features and Channel formation
2. Physical characteristics of stream
3. Chemical characteristics of stream
4. Stream biota (Vegetation)
5. Stream biota (Invertebrates)
6. Stream biota (Invertebrates)
7. Stream biota (Vertebrates)
8. Mid-Term exam
9. Food chain in stream; Microbial food chain
10. Predation, Herbivory and Competitive interactions
11. River basins in Turkey, The geological, physical, chemical and biological features of Turkey streams
12. River basins in Turkey, The geological, physical, chemical and biological features of Turkey streams
13. Stream modification; Climate change impacts on streams
14. Exotic species and its effects; Recovery and restoration of streams
15. Final Exam
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