**COURSE IDENTIFICATION FORM**

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| Course Unit Title and Code: SM-629 Trawl Fisheries | Programme Title: Fisheries PhD |
| Semester | The Methods of Education (ECTS) |  |
| Theoretical | Practice | Lab. | Project Work | Other | Total | ECTS |
|  | 2 | 2 | - |  |  |  | 6 |
| Languish of Course Unit  | Turkish |
| Type of Course Unit (Compulsory/Elective) | Elective |
| Preconditions | None |
| **Name of Lecturer** | Prof. Dr. Fahrettin YÜKSEL |
| Class | PhD |
| Objectives of Course Unit | Learns the improved selective device in trawl gears and also how the selectivity in codend or total gear is increased. In addition, teaching methods used in measure selectivity of the active gears and various analyzing methods made by available software and pocket programs. |
| **Teaching Techniques**  | Lecture, question and answer, discussion, brain storming, individual work |
| **Course Unit Contents** | Importance of selectivity, classification of trawl gears, trawl gear and its codend selectivity, methods used in selectivity measuring, analyses of data gathered by various methods (covered codend – paired gear) with available software, conducting a selectivity experiment, reporting of results and the use of selectivity data in fish stock assessment. |
| Recommended or Required Reading | Wileman, D.A., Ferro, R.S.T., Fonteyne, R., Millar, R.B. (eds.), 1996. Manual of Methods of Measuring the Selectivity of Towed Fishing Gears. Copenhagen: ICES Cooperative Research Report No. 215, 126 p. Dickson, W., Smith, A., Walsh, S., 1995. Methodology Manual: Measurement of Fishing Gear Selectivity. The Department of Fisheries and Oceans, Ottawa, Ontario, Canada. Pope, J.A., Margetts, A.R., Hamley, J.M. and Akyüz, E.F., 1975. Manual of Methods for Fish Stock Assessment. Part III. Selectivity of Fishing Gear, FAO Fisheries Technical Paper No. 41, Revision 1, 65 p.  |
| Learning Outcomes | 1. To know species composition of beam trawl gear according to operation area.
2. To know, apply and analyze the sampling methods in beam trawl.
3. To know species composition of beach and boat seines according to operation area.
4. To know, apply and analyze the sampling methods in beach and boat seines.
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| Weekly Detailed Course Contents | 1. Defination of towed fishing gears
2. History of towed fishery
3. Defination of trawl nets
4. Construction tecniques of demersal trawl nets
5. Pelagic trawl nets
6. Trawl doors
7. Selectivity studies about trawl
8. Mid-Term exam
9. Selectivity studies about trawl
10. Selectivity studies about trawl
11. Defination of Beam trawls.
12. Catch composition of Beam trawls
13. Defination of beach and boat seines
14. Construction of beach and boat seines and sampling methods
15. Final Exam
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| The contribution to Career Training of Course Unit | Mathematic and Basic Science | Vocational Education | General Education |
|  |  | 6 |  |

### RELATİONSHIPS BETWEEN LEARNING OUTCOMES OF COURS UNIT AND PROGRAMME OUTCOMES OF FİSHERİES ENGİNNER

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|  | PROGRAMME OUTCOMES OF FİSHERİES ENGİNNER | **Contribution Level**1 Low2: Medium 3: High |
| 1 | Determines strategies and investigates methods about their field of study in Fisheries Basic Science. | 3 |
| 2 | Produces new information and theories by interpreting and synthesising the information from other disciplines and uses the theoretical and practical information from their field of study in Fisheries Basic Science. | 2 |
| 3 | Conforms, controls and teaches social, cultural and scientific ethics in the investigation and publication process of the data related with the field of interest. | 1 |
| 4 | Follows up international publications and communicates with international collaborators by using language skills. | 0 |
| 5 | Uses the communication and information technologies about the field of interest in an advanced level. | 3 |
| 6 | Research, adaption and application of a novel topic in their field. | 1 |
| 7 | Being able to conceive interdisciplinary interactions, and to obtain novel results by analysis, synthesis, and expert information. | 2 |
| 8 | Developing new ideas and methods in their field by creative and critical thinking, problem solving and decision making. | 1 |

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