**COURSE IDENTIFICATION FORM**

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| Course Unit Title and Code: SM-527 Materials Used Fishing Gears | Programme Title: Fisheries Post Graduate |
| 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 | Post Graduate |
| Objectives of Course Unit | Provide theoretical knowledge and practical training in fishing gear design and construction techniques. |
| **Teaching Techniques**  | Lecture, question and answer, discussion, brain storming, individual work |
| **Course Unit Contents** | The materials used in the making of the fishing gear, fishing net factories and manufacturing technologies, the main ratio and calculations used in the rigging of the fishing gear, net cutting and calculations of net cutting, fishing gear design and construction, fishing gear mending and braiding, the main forces acting on fishing gear, technical plans of fishing gear and drawing rules and introduction of model. |
| Recommended or Required Reading | Mengi, T., 1987, Ağ Yapımı / Materyal ve Teknik, Fırat üniversitesi Yayınları, ElazığYüksel, F., Malzeme Bilgisi Ders Notları, Tunceli |
| Learning Outcomes | 1. Learns and compares the properties of the materials used in construction of fishing gear.
2. Define the design, construction techniques and materials used in the making the nets and ropes.
3. Explain the net making machine for knotted and knotless webbing and its technologies.
4. Select fishing gear to fishery resource data for the given area.
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| Weekly Detailed Course Contents | 1. Materials Used in the Making of the Fishing Gear I (Fishing Net Twines and Fishing Nets, Fibres, Natural and Synthetic Fibres, Monofilament, Multifila
2. Materials Used in the Making of the Fishing Gear II (Notation of Twine System, Kinds of Fishing Nets, Knotted and Knotless Nets
3. Materials Used in the Making of the Fishing Gear III (Ropes, Kinds of Ropes, Natural and Synthetic Ropes, Wire Rope, Combined Rope
4. Materials Used in the Making of the Fishing Gear IV (Buoyant and Floats, Sinkers, Other Accessories and Supplementary Materials)
5. Net Factories and Manufacturing Technology (Net Factories in Turkey, Manufacturing Technology)
6. The Main Ratio and Calculations Used In The Rigging of the Fishing Gear I (Hanging Ratio (E), Hang-in Ratio (AO), Height of mesh (BAGY) etc.)
7. The Main Ratio and Calculations Used In The Rigging of the Fishing Gear II (Buoyancy and Weight Forces, Underwater Weights of Net and Ropes, Total Buo
8. Mid-term exam
9. Cutting Net and Cutting Calculations (Net Cutting Process, Kinds of Cutting, Determination of the Cutting Rate, Fishing Net Cutting Combinations
10. Fishing Gear Design and Construction (Joining of Net Pieces, Kinds of Joining, Float and Sinker Line and Line Rigging, Kinds of Rigging)
11. Net Mending and Net Braiding (Materials used in the net mending and braiding, the trestle, the twines, The Meshstick, The Needle, Net Braiding By Hand
12. Main Forces Acting on Fishing Gear (Buoyancy and Weight Forces, Calculation of Sinking Power, Measurement of Sinking Power, Effect of Current and Wind
13. Fishing Gear Plans and Drawing of Technical Plan (The Rules of Drawing, Measurement and Scales, Units)
14. Practice on Fishing Gear Fabrication
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 | Deepens and improves the information based on university education up to expertise level in Fishing and Seafood Processing Technology.  | 2 |
| 2 | Collects, assesses and publishes data related to their expertise area, cares public, scientific, cultural and ethical values during data collection. | 2 |
| 3 | Solves problems by using problem-solving and suitable methods, establishes cause and effect relationships in the process in his/her expertise. | 0 |
| 4 | Develops a positive attitude towards lifelong learning.  | 1 |
| 5 | Ability for independent study in their area of expertise. | 3 |
| 6 | Obtaining and using literature in their area of expertise. | 3 |
| 7 | Written, verbal and visual convey of their studies and developments in their area of expertise. | 2 |
| 8 | Comprehends interaction of expertise area in relation to interdisciplinary relationships.  | 0 |

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