

## COURSE OUTLINE

### 1. GENERAL

|   |   |                              |                 |
|---|---|------------------------------|-----------------|
| <b>SCHOOL</b>   | AGRICULTURAL SCIENCES   |                              |                 |
| <b>ACADEMIC UNIT</b>  | ANIMAL PRODUCTION, FISHERIES & AQUACULTURE                              |                              |                 |
| <b>LEVEL OF STUDIES</b>   | UNDERGRADUATE   |                              |                 |
| <b>COURSE CODE</b>  | AS_602  | <b>SEMESTER</b>              | 6 <sup>th</sup> |
| <b>COURSE TITLE</b>   | FISHERIES RESOURCES AND TECHNOLOGY                                      |                              |                 |
| <b>INDEPENDENT TEACHING ACTIVITIES</b><br><i>if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits</i> |   | <b>WEEKLY TEACHING HOURS</b> | <b>CREDITS</b>  |
| (the credits are awarded for the whole course)  |   | 4                            | 6               |
|   |   |                              |                 |
|   |   |                              |                 |
| <i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>  |   |                              |                 |
| <b>COURSE TYPE</b><br><br><i>general background, special background, specialised general knowledge, skills development</i>  | Special Background  |                              |                 |
| <b>PREREQUISITE COURSES:</b>  | ICHTYHYLOGY   |                              |                 |
| <b>LANGUAGE OF INSTRUCTION and EXAMINATIONS:</b>  | Greek. Teaching may be performed in English in case of foreign students |                              |                 |
| <b>IS THE COURSE OFFERED TO ERASMUS STUDENTS</b>  | YES   |                              |                 |
| <b>COURSE WEBSITE (URL)</b>   |   |                              |                 |

### 2. LEARNING OUTCOMES

#### Learning outcomes

*The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.*

*Consult Appendix A*

- Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*

- Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B
- Guidelines for writing Learning Outcomes

By the end of this course the student will be able to:

- Describe the functioning of the fishing gears and the target species groups.
- Understand the ecology of fish and fisheries exploitation
- Efficiently manage and analyse official fisheries data

### General Competences

*Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?*

*Search for, analysis and synthesis of data and information, with the use of the necessary technology*

*Project planning and management*

*Respect for difference and multiculturalism*

*Adapting to new situations*

*Respect for the natural environment*

*Decision-making*

*Showing social, professional and ethical responsibility and sensitivity to gender issues*

*Working independently*

*Team work*

*Criticism and self-criticism*

*Working in an international environment*

*Production of free, creative and inductive thinking*

*Working in an interdisciplinary environment*

*.....*

*Production of new research ideas*

*Others...*

Search for, analysis and synthesis of data and information, with the use of the necessary technology  
 Team work  
 Criticism and self-criticism  
 Respect for the natural environment

### 3. SYLLABUS

#### Lectures

1. History and evolution of fisheries exploitation and technology.
2. Fisheries resources and multi-species fisheries, target species.
3. Fisheries fleet and multi-gear fisheries.
4. Artisanal fisheries.
5. Field survey for fishing early stages of fish.
6. Lagoon fishery.
7. Field survey in lagoon fishery.
8. Dynamic fishing tools.
9. Fishery in lentic systems.
10. Socio-economic approach of fisheries.
11. Fisheries data: Estimation and evaluation.
12. Fisheries-marine megafauna interacton.
13. Ecosystem-based approach of fisheries-fishing impacts on ecosystem.

**Exercises**

1. Description of target species and fishing gears through software.
2. Project presentation
3. Project on early fish sampling
4. Management of fisheries data based on public data.
5. Project presentation
6. FAO fisheries data and software (FishStat)
7. Analyses of FAO data
8. Project on lagoon fisheries
9. Common Fisheries Register data for fisheries vessels
10. Analyses of Fisheries Register Data
11. Database Commission Fisheries (DCF)
12. Analyses of Database Commission Fisheries
13. Revision summary

#### 4. TEACHING and LEARNING METHODS - EVALUATION

|  |   |                                 |
|--|---|---------------------------------|
| <p><b>DELIVERY</b><br/><i>Face-to-face, Distance learning, etc.</i></p>  | Face to face  |                                 |
| <p><b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b><br/><i>Use of ICT in teaching, laboratory education, communication with students</i></p>  | <ul style="list-style-type: none"> <li>• Use of ICT (powerpoint) in teaching</li> <li>• Use of ICT (powerpoint) in laboratory exercises</li> <li>• Use of ICT in Student Communication (Learning Support through the e-class platform)</li> </ul>   |                                 |
| <p><b>TEACHING METHODS</b></p> <p><i>The manner and methods of teaching are described in detail.</i></p> <p><i>Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i></p> <p><i>The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</i></p>                         | <p><b>Activity</b></p>  | <p><b>Semester workload</b></p> |
|  | Lectures  | 39                              |
|  | Study and analysis of bibliography  | 51                              |
|  | Exercises   | 13                              |
|  | Team Project  | 24                              |
|  | Private study time of the students for the lab preparation and final examination  | 23                              |
|  | Course total  | <b>150</b>                      |
| <p><b>STUDENT PERFORMANCE EVALUATION</b></p> <p><i>Description of the evaluation procedure</i></p> <p><i>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p> | <p>Greek language is used. For foreign students (e.g. Erasmus students) it can be done in English</p> <p>1. Written final examination (A)<br/>2. Team project (B)</p> <p><i>Each case is graded on a scale of 0-10</i></p> <p>Final grade (FG):<br/>FG = 0.7A + 0.3B</p> <p><i>Minimum passing grade: 5 (Grade: 0-10)</i></p> |                                 |

#### 5. ATTACHED BIBLIOGRAPHY

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