# COURSE OUTLINE

1. **GENERAL**

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| **SCOOL** | SCHOOL OF HEALTH | | | |
| **DEPARTMENT** | BIOLOGICAL APPLICATIONS AND TECHNOLOGY | | | |
| **CURICULUM OF STUDIES** | UNDERGRATUATE | | | |
| **LEESON CODE NUMBER** | **ΒΕΕ904** | **SEMESTER** | **6th-8th** | |
| **LESSON TITLE** | Marine Biology | | | |
| **TEACHING ACTIVITIES** | **TEACHING HOURS PER WEEK** | | | **ECTS** |
| Theory | 3 | | | 6 |
| Lab | 3 | | |
| **COURSE TYPE** | Specialised general knowledge  Skills Development | | | |
| **PREQUISITIES:** | ZOOLOGY | | | |
| **TEACHING AND EXAMINATION LANGUAGE:** | Greek (Teaching, Examination)  English (Examination) | | | |
| **ERASMUS** | The course is offered to exchange students. | | | |

1. **LEARNING OUTCOME**

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| **LEARNING OUTCOME** |
| The course of Marine biology aims at acquiring knowledge and skills regarding:  Training on marine ecosystem structure and operation issues.  Understanding anthropogenic involvement in the marine environment.  Development of the ability to identify key taxonomic groups of marine organisms. In distinct taxonomic groups, students will be able to recognize species.  Ability to develop projects of marine organisms  Knowledge and use of sampling equipment and methods.  Raising awareness of marine life and understanding the threats that marine environment faces. |
| **GENERAL SKILLS** |
| • Implementation in practice  • Search, analyze and synthesize data and information, using the necessary technologies  • Autonomous work  • Environmental awareness  • Criticism and self-criticism  • Work at an interdisciplinary level  • Promote free, creative and inductive thinking |

1. **LESSON SUBJECT**

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| 1. Subject and history of marine biology. 2. Chemical and physical characteristics of the marine environment. 3. Research methods in marine organisms. 4. Characteristics of the marine ecosystem and differences from terrestrial. 5. Life in the coastal zone and continental shelf. 6. Ecosystems Ecology. 7. Lagoons, brackish waters. 8. Species Adaptations. 9. Tropical ecosystems. 10. Life in the highland areas. 11. Life in the vast depth. 12. Climate change, impact on marine ecosystems 13. Geological history of the Mediterranean |

1. **TEACHING AND LEARNING METHODS - EVALUATION**

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| **COURSE OF TRAINING** | Face to face |
| **USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES** | • Use of ICT in Teaching  • Use of ICT in Laboratory Education  • Use of ICT in Communication with students |
| **TEACHING PROGRAMME** | |  |  | | --- | --- | | ***ACTIVITY*** | ***WORKLOAD*** | | Lectures | 39 | | Laboratory exercises | 8 | | Outdoor exercises | 10 | | paper | 8 | | Η/Υ | 6 | | Total | ***71*** | |
| **STUDENT EVALUATION** | Written examination, co-operational work, general assessment of the student's ability and interest.  Methods of Student Assessment  Written Examination with Short Response Questions  Extensive Answer Writing |

1. **ATTACHED BIBLIOGRAPHY**

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| *-*Castro P. & M. Huber. MARINE BIOLOGY. McGRAW-HILL EDUCATION PUBLISHER.  Nybakken J. MARINE BIOLOGY, AN ECOLOGICAL APPROACH, PEARSON.  *-OTHER SOURCES:*  *Limnology and Oceanography*  *Marine and coastal management*  *Estuarine and Coastal marine science*  *Hydrobiologia* |