**COURSE OUTLINE**

1. **GENERAL**

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| **SCHOOL** | School of Health Sciences |
| **ACADEMIC UNIT** | Faculty of Medicine |
| **LEVEL OF STUDIES** | Undergraduate |
| **COURSE CODE** | ΙΑΕ902 | **SEMESTER** | **9th** |
| **COURSE TITLE** | ANΑESTHESIOLOGY |
| **INDEPENDENT TEACHING ACTIVITIES** *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* | **WEEKLY TEACHING HOURS** | **CREDITS** |
|  | 4 | 5 |
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| *Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (4).* |  |  |
| **COURSE TYPE***general background, special background, specialised general knowledge, skills development* | Skills Development |
| **PREREQUISITE COURSES:** | Anatomy, Physiology, Pathophysiology, Pharmacology, Nosology, Neurology |
| **LANGUAGE OF INSTRUCTION and EXAMINATIONS:** | Greek, English |
| **IS THE COURSE OFFERED TO ERASMUS STUDENTS** | Yes |
| **COURSE WEBSITE (URL)** | <https://anaesthesiology.med.uoi.gr/><https://ecourse.uoi.gr/enrol/index.php?id=784> |

1. **LEARNING OUTCOMES**

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| **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*
 |
| The course of Anaesthesiology is a clinical and laboratory lesson which is taught by lectures, medical simulation in low and high quality models and scenarios on the computer.Learning objectives after completing the lessons: Students will be able to1. Know the historical landmarks in development of ansesthesiology.
2. Plan preoperative assessment and preparation of patients (selecting necessary clinical and paraclinical examinations and their evaluation, prediction of perioperative risk and application of preoperative optimization programs).
3. Understand the basic theories of anaesthesia, the components of anaesthesia and to understand how to implement these components in general anaesthesia.
4. Know the basic pharmacology of anaesthetic drugs (inhaled and intravenous), their doses and methods of clinical use.
5. Know the airway maintenance by endotracheal intubation and other supraglottic techniques and devices.
6. Know the basic principles of monitoring and to understand the methodology of use of the relevant devices (monitoring).
7. Know the basic principles of regional anesthesia, the indications and contraindications.
8. Know the basic principles of the management of postoperative pain and to familiarize with pharmacologic agents used to deal with pain.
9. Know the basic principles of perioperative management of multi-trauma patients and other life-threatening emergencies situations, to know also the differences between pre-hospital management and the management of these patients in intensive care units and operating rooms.
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| **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* *Adapting to new situations* *Decision-making* *Working independently* *Team work**Working in an international environment* *Working in an interdisciplinary environment* *Production of new research ideas*  | *Project planning and management* *Respect for difference and multiculturalism* *Respect for the natural environment* *Showing social, professional and ethical responsibility and sensitivity to gender issues* *Criticism and self-criticism* *Production of free, creative and inductive thinking**……**Others…**…….* |
| Search for, analysis and synthesis of data and information, with the use of the necessary technology. Adapting to new situations.Decision-making. |

1. **SYLLABUS**

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| 1. Introduction in Anaesthesiology. -The evolution of Anesthesiology.
2. Preanaesthetic patient evaluation and preparation. Informed consent in anesthesia.
3. Equipment for anaesthesia administration. Minimum standards in anaesthesia for patient safety. General anaesthesia.
4. Anesthetic drugs.
5. Intraoperative and perioperative patients’ monitoring.
6. Regional anaesthesia. Drugs and techniques.
7. Administration of sedation and its management.
8. Postoperative pain management. Drugs and techniques.
9. Perioperative fluid administration and transfusions. Blood transfusion complications.
10. Multi-trauma patients – Mass casualties incidences- Triage.
11. Complications and morbidity related to anaesthesia.
12. Clinical cases scenarios, using medical simulation.
13. Basic upper airway management. Endotracheal intubation.
14. Cardiac arrest. Cardiopulmonary resuscitation and use of defibrillator.
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1. **TEACHING and LEARNING METHODS - EVALUATION**

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| **DELIVERY***Face-to-face, Distance learning, etc.* |  Face to face |
| **USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY** *Use of ICT in teaching, laboratory education, communication with students* | Projector and PC for the lectures.3 PCs for the training of students in special simulation programs for emergency situations. Simulation in manikins. |
| **TEACHING METHODS***The manner and methods of teaching are described in detail.**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.**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* |

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| ***Activity*** | ***Workload of each students group***  |
| Lectures | 30 |
| Computer-based simulation training in emergency medicine and anesthesia. | 15 |
| Manikin-Based Simulations. | 15 |
| Personal study during the teaching period | 44 |
| Personal study during the examination period. | 20 |
| Duration of examination | 2 |
|  |  |
| Course total  | 126 |

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| **STUDENT PERFORMANCE EVALUATION***Description of the evaluation procedure**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**Specifically-defined evaluation criteria are given, and if and where they are accessible to students.* | I. Written final exam that includes:- Multiple choice questionsII. Evaluation in the management of emergence cases using strict protocols and medical simulation programs for anaesthesia and sedation. |

1. **ATTACHED BIBLIOGRAPHY**

*Teaching - study material*

1. **Αναισθησιολογία: ΒΑΣΙΚΕΣ ΑΡΧΕΣ**

Ε. Αργυριάδου, Α. Αμανίτη, Β. Γροσομανίδης, Δ. Σαρρίδου, Γ. Τσαούση, Β. Φυντανίδου

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