**COURSE OUTLINE**

1. **GENERAL**

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| **SCHOOL** | School of Health Sciences | | | | |
| **ACADEMIC UNIT** | Faculty of Medicine | | | | |
| **LEVEL OF STUDIES** | Undergraduate | | | | |
| **COURSE CODE** | **ΙΑΕ801** | **SEMESTER** | | **8th** | |
| **COURSE TITLE** | MICROSURGERY | | | | |
| **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** |
| Lectures and Practical Training | | | 2 | | 2 |
|  | | |  | |  |
|  | | |  | |  |
| *Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).* | | |  | |  |
| **COURSE TYPE**  *general background,  special background, specialised general knowledge, skills development* | Specialized general knowledge | | | | |
| **PREREQUISITE COURSES:** |  | | | | |
| **LANGUAGE OF INSTRUCTION and EXAMINATIONS:** | Greek | | | | |
| **IS THE COURSE OFFERED TO ERASMUS STUDENTS** | Yes | | | | |
| **COURSE WEBSITE (URL)** | https://ecourse.uoi.gr/course/view.php?id=1898 | | | | |

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 students are introduced by a specialized instructor to the basic techniques of microsurgery, such as how to use the microinstruments and handle microsutures, under the microscope. Furthermore, literature was handed out to the students to provide theoretical information on basic techniques. The course besides the theoretical introduction is combined with practical training with the use of the operating microscope, micro instruments, fine suture 8-0, 9-0 by practicing suturing on different planes using latex rubber glove practice card. From our experience with the course, we can state that the students were really impressed by the simple models and had a lot of fun with the practical exercises.  At the end of the program the basic techniques can be learned by students and most of them are able to apply sutures and tying the knots under the microscope on nonvital models . Each student encouraged to submit a "small thesis” on different microsurgical fields, for the final examination test of the program. | |
| **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…*  *…….* |
| Working independently  Team work | |

1. **SYLLABUS**

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| Objective of Microsurgery. History of Microsurgery. Experimental Surgery. Microscope, Microsurgical instruments and Microsutures. How can be Microsurgeon. Replantations after fingers and hand amputations. Indications and Contraindications. Decision for replantation. Overview of technique of replantation. Microvascular grafts. Microsurgery for Brachial Plexus and peripheral nerve injuries. Nerve repair with nerve grafts. Application of Microsurgery in Orthopaedic trauma and Reconstruction. Free and pedicled flaps. Free flap transfer for extensive tissue defects of the limbs, extensive bone defects, complex trauma injuries, oncological resections, and congenital abnormalities. Research and Future of Microsurgery. |

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

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| **DELIVERY** *Face-to-face, Distance learning, etc.* | Microsurgery Laboratory |
| **USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY** *Use of ICT in teaching, laboratory education, communication with students* | **Use of Microscope** |
| **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* | |  |  | | --- | --- | | ***Activity*** | ***Semester workload*** | | Lectures | 10 | | Practice | 16 | | Team work | 25 | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | | Course total | ***75*** | |
| **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.* | Writing work (100%) |

1. **ATTACHED BIBLIOGRAPHY**

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| *- Suggested bibliography:*  Microsurgery  Sarantis Spyrifonos, Edition Konstadaras  *- Related academic journals:*  Microsurgery  The journal of hand surgery |