**COURSE OUTLINE**

1. **GENERAL**

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| **SCHOOL** | SCHOOL OF HEALTH SCIENCES | | | | |
| **ACADEMIC UNIT** | FACULTY OF MEDICINE | | | | |
| **LEVEL OF STUDIES** | UNDERGRADUATE | | | | |
| **COURSE CODE** | ΙΑΥ413 | **SEMESTER** | | D | |
| **COURSE TITLE** | INTRODUCTION TO CLINICAL MEDICINE | | | | |
| **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** |
|  | | | 13 | | 3 |
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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* | General background & skills development | | | | |
| **PREREQUISITE COURSES:** | Anatomy (I & II), Physiology (I & II) | | | | |
| **LANGUAGE OF INSTRUCTION and EXAMINATIONS:** | Greek | | | | |
| **IS THE COURSE OFFERED TO ERASMUS STUDENTS** | Νο | | | | |
| **COURSE WEBSITE (URL)** | http://ecourse.uoi.gr | | | | |

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* | |
| This course aims to provide basic clinical skills, for which knowledge of the pathophysiology of various diseases is not required. The expected skills focus on the physiological manifestations of human functions and do not include their pathological variations. Thus, students will have the opportunity to examine and evaluate normal vital functions while practicing basic medical examination skills. In subsequent years of study, these skills will be expanded to include the pathological aspects of vital functions.  Upon completion of the courses, students will be able to:   1. Take a medical history in its basic structure, organized by systems. 2. Perform Basic Cardiopulmonary Resuscitation (CPR) and use an automated external defibrillator (AED). 3. Maintain airway patency using basic techniques and simple aids. 4. Perform a clinical examination of the circulatory system (evaluation of the arterial pulse, blood pressure measurement, palpation of the cardiac impulse). 5. Analyze the electrocardiogram in its basic form. 6. Perform a clinical examination of the respiratory system (measurement of respirations, auscultation and percussion of the lungs, pulse oximetry, and measurement of peak expiratory flow). 7. Measure the patient’s body temperature. 8. Manage properly a nasogastric catheter and a bladder catheter. 9. Obtain and analyze a urine sample using pathological substance determination strips. 10. Place a peripheral venous line. 11. Obtain a blood sample and fill the laboratory test vials. 12. Prepare an intravenous solution infusion. 13. Dissolve and prepare pharmaceutical preparations in vials. 14. Administer an intramuscular injection. 15. Administer inhaled medications. 16. Apply oxygen therapy using different oxygen devices and delivery systems. 17. Describe the principles of wound suturing. 18. Assess the need for, and administer, anti-tetanus serum and vaccine. 19. Adhere to infection prevention principles (medical hand washing and use of Personal Protective Equipment). 20. Properly dispose of various hospital waste. | |
| **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…*  *…….* |
| Investigating, analyzing and interpreting data using the necessary technologies.  Decision making.  Independent work.  Teamwork. | |

1. **SYLLABUS**

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| 1. MEDICAL HISTORY – ASSESSMENT OF MEDICAL SYMPTOMS  2. COMMUNICATING WITH THE PATIENT – BREAKING BAD NEWS  3. SURGICAL TRAUMA – TREATMENT  4. CLINICAL EXAMINATION OF THE RESPIRATORY SYSTEM (BREATHING, RESPIRATORY RATE, SPIROMETRY, ADMINISTRATION OF INHALED MEDICATIONS)  5. CLINICAL EXAMINATION OF THE CIRCULATORY SYSTEM (ELECTROCARDIOGRAPHY, PULSE ASSESSMENT, BLOOD PRESSURE MEASUREMENT)  6. ABDOMINAL EXAMINATION  7. EXAMINATION OF THE NERVOUS SYSTEM  8. MUSCULOSKELETAL EXAMINATION  9. PREVENTION OF INFECTIONS  10. UPPER AIRWAY MANAGEMENT  11. OXYGEN THERAPY  12. VENOUS AND INTRAOSSEOUS ACCESS, ARTERIAL CATHETERIZATION  13. BASIC IMAGING EXAMINATIONS (X-RAY, ULTRASOUND, CT)  14. BASIC LABORATORY EXAMINATIONS  15. ENSURING UPPER AIRWAY PATENCY  16. BASIC CARDIOPULMONARY RESUSCITATION AND AUTOMATED EXTERNAL DEFIBRILLATOR  17. DEVICES FOR OXYGEN THERAPY, PULSE OXYMETRY, AND BLOOD GASES  18. PERIPHERAL AND CENTRAL VENOUS LINES, ARTERIAL LINES, AND RELEVANT CONSUMABLES (VENOUS CATHETERS, FLUIDS, FLUID ADMINISTRATION DEVICES, FILLING OF LABORATORY TEST VIALS), INTRAMUSCULAR INJECTIONS  19. TEMPERATURE MEASUREMENT  20. BASIC PRINCIPLES OF WOUND SUTURING  21. ABCDE APPROACH |

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

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| **DELIVERY** *Face-to-face, Distance learning, etc.* | Face-to-face and practical training |
| **USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY** *Use of ICT in teaching, laboratory education, communication with students* | Video projectors & computers are available for lessons. Computer programs are available for students to practice on special video and audio files.  Moreover, low & high fidelity simulators are available for students' practical training. |
| **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*** | ***Workload of each students group*** | | Lectures from the auditorium | 26 | | Clinical practice in the simulation laboratory | 14 | | Personal study during the semester | 28 | | Personal study during the examination period (end of semester) | 10 | | Duration of examination | 2 | |  |  | |  |  | |  |  | | Total Course | ***80*** | |  |  | |  |  | |  |  | |
| **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.* | Students are assessed:  I. By their participation in the lectures  II. During the clinical practice in the simulation lab  III. Written final exam (Multiple choice questions) |

1. **ATTACHED BIBLIOGRAPHY**

*Teaching - study material: BASIC CLINICAL SKILLS. Smyrnakis E, Moirasgenti M, Toufas K, Grosomanidis B, Benos A. University Studio Press A.E, Thessaloniki, 1st edition, 2014, ISBN 978-960-12-2176-2*