**COURSE OUTLINE**

1. **GENERAL**

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| **SCHOOL** | School of Health Sciences | | | | |
| **ACADEMIC UNIT** | Faculty of Medicine | | | | |
| **LEVEL OF STUDIES** | Undergraduate | | | | |
| **COURSE CODE** | **ΙΑΕ613** | **SEMESTER** | | **6** | |
| **COURSE TITLE** | **Selected Toxicology Issues** | | | | |
| **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,* Case studies | | | 2 | | 2 |
| *Lectures* | | | 1 | | 1 |
| Case studies | | | 1 | | 1 |
| *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* | Specialised general knowledge | | | | |
| **PREREQUISITE COURSES:** | * Pharmacology, * Introduction to Clinical Medicine | | | | |
| **LANGUAGE OF INSTRUCTION and EXAMINATIONS:** | Greek | | | | |
| **IS THE COURSE OFFERED TO ERASMUS STUDENTS** | No | | | | |
| **COURSE WEBSITE (URL)** | https://ecourse.uoi.gr/enrol/index.php?id=431 | | | | |

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 understanding of the mechanisms of toxicity and the importance of comprehensive and rapid toxicological test for the diagnosis of poisoning and the proper therapeutic assessment of the poisoned patient.  More specifically:   * Knowledge and critical understanding of the mechanisms of toxicity, the factors that affect toxicity, the importance of the toxicological analysis and evaluation of the relevant results, for the diagnosis of poisoning, the management and the possible outcomes of the poisoned patient. • Development and support of arguments in compiling and discussing clinical poisoning incidents and taking responsibility for the appropriate medical decisions within the available media and infrastructures in a given working environment. • Collection, interpretation and debate on social, scientific or ethical issues relevant to a given poison incident. • Ability to communicate information, ideas, problems and solutions to both qualified and non-specialized audiences | |
| **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…*  *…….* |
| * Searching for data, analysis and synthesis of data and information, with the use of the necessary technology * Decision-making * Working independently * Team work * Working in an interdisciplinary environment | |

1. **SYLLABUS**

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| Insights into the biochemical mechanisms of toxicity of common toxic substances, the factors affecting toxic responses, the diagnosis, prognosis and assessment of poisoning, the importance of toxicological analysis, and the interpretation of the relevant results of the toxicological analysis.  Specifically: Toxicology beyond Pharmacology; Toxicokinetics and toxicodynamics; Mechanisms of toxicity / factors affecting toxicity; Objectives and Evaluation of Toxicological Analysis in Clinical Toxicology; Methods for determination of toxic substances in biological materials; Specific examples of toxic substances: acetaminophen, salicylates, organophosphate / carbamate pesticides, carbon monoxide and other poisonous gases, antipsychotic drugs, heavy metals, drugs of abuse, new psychoactive substances (NPS). Presentation and discussion of clinical cases and case reports. |

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* | Use of ICT in teaching, laboratory education, communication with students |
| **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 (two groups per semester)*** | | Lectures | 26 | | Study and analysis of bibliography | 16 | | Tutorials | 8 | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | | Total | **50** | |
| **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.* | Evaluation in Greek.   * Multiple choice questionnaires, and * Oral examination |

1. **ATTACHED BIBLIOGRAPHY**

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| *Teaching - study material:*   * Clinical Toxicology (Harris Carson R. ISBN: 978-960-394-668-7). * Tutor’s (VB) notes / slides. |