**COURSE OUTLINE**

1. **GENERAL**

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| **SCHOOL** | School of Health Sciences |
| **ACADEMIC UNIT** | Faculty of Medicine |
| **LEVEL OF STUDIES** | Underdraduate |
| **COURSE CODE** | **ΙΑΕ907** | **SEMESTER** | **9th Semester** |
| **COURSE TITLE** | Interventional Cardiology |
| **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 Lectures in Lecture Halls | 4 | 2 |
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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 / Elective Course |
| **PREREQUISITE COURSES:** | None but generally the study of Cardiology is recommended. |
| **LANGUAGE OF INSTRUCTION and EXAMINATIONS:** | Greek |
| **IS THE COURSE OFFERED TO ERASMUS STUDENTS** | No |
| **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*
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| During their training in Interventional Cardiology, students need to know about:1. Revascularization in Acute and Chronic Coronary Syndromes.
2. Management of acute aortic syndrome.
3. Complex coronary angioplasty in the cath lab. What does it mean?
4. The mechanism of action and side-effects of cardiovascular medications in the catheterization laboratory
5. Indications of percutaneous treatment of heart valves.
6. Right heart catheterization.
7. Heart: basics of elecrophysiology study, pacemaker and resynchonization therapy.
8. Coronary funcional tests in the catheterization laboratory.
9. Anatomic assessment of coronary artery disease in the catheterization laboratory: moving beyond angiogram.
10. Interventional Cardiology: the future
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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…**…….* |
| The course aims to help the student acquire the following competences1. Decision-making
2. Working independently
3. Team work
4. Working in an international environment
5. Working in an interdisciplinary environment
6. Production of new research ideas
7. Showing social, professional and ethical responsibility and sensitivity to gender issues
8. Criticism and self-criticism
9. Production of free, creative and inductive thinking
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1. **SYLLABUS**

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| Knowledge on Interventional Cardiology based on the Lecture program:* Interventional Cardiology: Past, Present, and Future. Cases.
* Invasive treatment of STEMI, non-STEMI ACS and Chronic Coronary Syndromes. Cases.
* Percutaneous intervention of aortic stenosis and mitral regurgitation.
* Treatment for congenital heart disease.
* Coronary functional tests in the catheterization laboratory. Drugs in the catheterization laboratory.
* Heart: basics of electrophysiology study, pacemaker and resynchonization therapy.
* Acute aortic syndromes.
* Right heart catheterization. Interventions for Stroke.
* Coronary artery bypass surgery for coronary artery disease
* Anatomic assessment of coronary artery disease in the catheterization laboratory: moving beyond angiogram.
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1. **TEACHING and LEARNING METHODS - EVALUATION**

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| **DELIVERY***Face-to-face, Distance learning, etc.* | Classical lectures |
| **USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY** *Use of ICT in teaching, laboratory education, communication with students* | 1) Video-projected presentations2) Presentations are available online through: ecourse.uoi.gr3) Video presentations4) Case presentations 5) Students communicate with Teaching Staff and the Department Secretary via email. |
| **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***  |
| Lectures (13x2) | 26 |
| Autonomous | 30 |
| Exams | 1 |
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| Total | ***57*** |

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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.* | Language of evaluation: greek.Method of evaluation: written exam with Multiple Choice Questions at the end of the tremester(no partial or negative credit)Or Presentation of a subject in Interventional Cardiology |

1. **ATTACHED BIBLIOGRAPHY**

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| *Teaching - study material:*Suggested bibliographyLectures at <http://ecourse.uoi.gr>European Society of Cardiology: GuidelinesMCQsReview articles |