(1) GENERAL

SCHOOL	HEALTH SCIENCES				
ACADEMIC UNIT	SPEECH LANGUAGE THERAPY				
LEVEL OF STUDIES	Undergraduate Programme (Level 6)				
COURSE CODE	slt – 13 SEMESTER 1				
COURSE TITLE	HEALTH INFORMATICS				
INDEPENDENT TEACHING AC					
if credits are awarded for separate co	WEEKLY				
course, e.g. lectures, laboratory exercises	TEACHING	CREDITS			
are awarded for the whole of the course	HOURS				
teaching hours and the total					
Lectures		2	5		
Small Group Discussion		1			
Laboratory Exercises		1			
COURSE TYPE	General background				
general background,					
special background, specialised general					
knowledge, skills development					
PREREQUISITE COURSES:					
LANGUAGE OF INSTRUCTION and	Greek				
EXAMINATIONS:					
IS THE COURSE OFFERED TO ERASMUS	No				
STUDENTS					
COURSE WEBSITE (URL)	http://moodle.ioa.teiep.gr/course/view.php?id=2				
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(2) LEARNING OUTCOMES

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 is the basic introductory course in scientific and technical concepts of health informatics.

The curriculum of the course aims to familiarise students with basic concepts of health informatics, health data and information and technical standards of information technology and information systems in the health sector. It includes software applications for health units and elements on digital equipment (new technologies/computer) currently used in modern health units.

Upon successful completion of the course the student will be able to:

• recognize and describe key and critical features of the nature and management of Medical Information (Levels 1 & 2: Knowledge/Remembering & Understanding)

- describe coding and classification systems' role in terms of interoperability within information subsystems (Levels 1 & 2: Knowledge/Remembering & Understanding)
- describe databases' role in information management (Levels 1 & 2: Knowledge/Remembering & Understanding)
- express issues related to electronic patient record (Levels 1 & 2: Knowledge/Remembering & Understanding)
- identify issues related to medical imaging (Levels 1 & 2: Knowledge/Remembering & Understanding)
- understand and analyse the modern requirements for distance medical care (Levels 1 & 2: Knowledge/Remembering & Understanding)
- understands and analyse Internet role on distance education in the health sector (Levels 1 & 2: Knowledge/Remembering & Understanding)
- distinguish key elements in Information Technology applications enhancing the educational process, online learning and lifelong learning offering learning opportunities during his/her studies and career in health sector (Levels 1 & 2: Knowledge/Remembering & Understanding)
- formulate health information search skills and Internet use in health education (Level 1 3: Knowledge, Skills, Ability)
- demonstrate basic IT skills in processing and presenting information through applications (Level 1 – 3: Knowledge, Skills, Ability)

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	Project planning and management
and information, with the use of the	Respect for difference and multiculturalism
necessary technology	Respect for the natural environment
Adapting to new situations	Showing social, professional and ethical
Decision-making	responsibility and sensitivity to gender issues
Working independently	Criticism and self-criticism
Team work Working in an international environment Working in an interdisciplinary environment	Production of free, creative and inductive thinking Others

Production of new research ideas

- Search for, analysis and synthesis of data and information, with the use of the necessary technology
- Adapting to new situations
- Working independently
- Team work
- Working in an international environment
- Working in an interdisciplinary environment
- Project planning and management

(3) SYLLABUS

- 1. Introduction
- 2. General Information on Health Informatics
- **3.** Healthcare Data and information
- 4. Technical Standards in Health Informatics
- 5. Health Information Systems
- 6. Electronic Patient Record
- 7. Medical Imaging Systems
- 8. Digital Technology and Clinical Decision-Making

- 9. Internet in Healthcare
- 10. Health Informatics for the public -
- 11. Patient care systems Telediadiation Telepresence
- **12.** Tele-education in the field of health
- 13. Digital games in healthcare

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY Face-to-face, Distance learning, etc.	Face-to-face & blended learning supported with online educational material.			
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 via email, messager, facebook, moodle κ.ά Support with blended learning using the learning management system moodle and a webpage accommodating online educational material for this course Posting course-grades through the online course management platform of the UOI 			
TEACHING METHODS		Activity	Semester workload	
The manner and methods of teaching are		Lectures	26	
described in detail.		Practice	13	
Lectures, seminars, laboratory practice,		Laboratory	8	
fieldwork, study and analysis of bibliography, tutorials, placements,		Group work in a project	25	
clinical practice, art workshop, interactive teaching, educational visits,		Study and analysis of bibliography	15	
project, essay writing, artistic creativity, etc.		Personal Study/Evaluation	38	
		Course total	125	
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				
STUDENT PERFORMANCE EVALUATION	١. \	Written final exam (50%):		
Description of the evaluation procedure		- Multiple choice test		
Innauran of qualitation mother to of		- Short answer questions		
Language of evaluation, methods of evaluation, summative or conclusive,		- Open-ended questions Written Essay and presen		
multiple choice questionnaires, short-		 II. Written Essay and presentation (30%) III. Laboratory work - (20%) 		
answer 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		e final exams will be offer	red in Greek.	
Specifically-defined evaluation criteria are given, and if and where they are accessible to students.				

(5) ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

- **1.** Oachs, P.K., & Watters, A. (2016). *Health Information Management Concepts, Principles, and Practice*.
- **2.** Enrico Coiera (2015). *Guide to Health Informatics (3rd edition),* CRC Press.
- 3. Braunstein, M. (2016). Contemporary Health Informatics. AHIMA Press.

- Related academic journals:

- 1. Journal of Medical Internet Research, JMIR Publication, https://www.jmir.org/
- 2. International Journal of Medical Informatics, ELSEVIER
- https://www.journals.elsevier.com/international-journal-of-medical-informatics
- 3. Health Informatics Journal, SAGE, https://journals.sagepub.com/home/jhi