

SCHOOL OF HEALTH SCIENCES

UNIVERSITY OF PATRAS SCHOOL OF HEALTH SCIENCES DEPARTMENT OF PHARMACY UNDERGRADUATE STUDIES' COURSES



COURSE DESCRIPTION: INFORMATICS COURSE CODE: PHA-A15-NEW

INFORMATICS COURSE DESCRIPTION

1. GENERAL

SCHOOL	HEALTH SCIENCES				
DEPARTMENT	PHARMACY				
LEVEL OF COURSE	UNDERGRADUATE				
COURSE CODE	PHA-A15-NEW		SEMESTER 1st		
COURSE TITLE	INFORMATICS				
INDEPENDENT TEACHING ACTIVITIES		ES	TEACHING HOURS PER WEEK		ECTS CREDITS
Lectures		es	2		
Tutorial		1		6	
Laboratory work			4		
COURSE TYPE	General Background Course				
PREREQUISITE COURSES:	-				
TEACHING AND ASSESSMENT LANGUAGE:	Greek				
THE COURSE IS OFFERED TO ERASMUS STUDENTS	Not offered				
COURSE WEBPAGE (URL)	http://www.pharmacy.upatras.gr/images/DS/PHA-A15-EN.pdf				

2. LEARNING OUTCOMES

Learning outcomes

Understanding of basic principles of information systems and their applications.

Basic structures of the information systems used in the health and the application of the electronic health record.

Basic principles of databases and their applications in health, coding and classification of medical information.

Learning of basic principles of computer networks, their applications and protection in internet. Understanding of basic principles of the medical signals and their digital processing for the export of diagnostic information.

Learning of computer's software regarding word processing, spreadsheets calculations and presentation. Learning of computer's software regarding processing of experimental data. Learning of the use of Internet and the safe navigation.

General Abilities

- 1. Retrieve, analyze and synthesize data and information, using the necessary technologies
- 2. Adapt to new situations
- 3. Independent work

3. COURSE CONTENT

Information systems	
Information systems in Health Sciences	
Electronic Health Record	
Databases	
Coding and classification of medical information	
Computer networks	
Digital processing of medical signals and pictures	
Introduction to Excel and the processing of experimental data	
Word processing (Word)	
Creating presentations (Powerpoint)	
Internet browsers and email	
Security of computers	

4. TEACHING AND LEARNING METHODS - ASSESSMENT

TEACHING METHOD	In class and in laboratory training			
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Support of learning process through the online platform e-class, software for processing of experimental data and software regarding word processing, spreadsheets calculations and presentation.			
TEACHING ORGANIZATION	Teaching Method	Semester Workload		
	Lectures	26		
	Practical Lab Exercises	20		
	Group class for data processing	20		
	Autonomous study	71		
	Total number of hours for the Course			
	(25 hours of work-load per ECTS credit)	150		
STUDENT ASSESSMENT	1. Written final exam (40%) including			
	 Questions of brief development 			
	Judgment questions			
	2. Laboratory exercises (60%) including			
	 Exam in basic office applications (Word, Excel, Powerpoint) and in processing of experimental data 			

5. RECOMMENDED LITERATURE

Suggested Books

- 1. Vlachopoulos Georgios & Klepetsanis Pavlos, Application of Informatics in Health Sciences, Publisher Vlachopoulos Georgios, 1st edition, 2012. (in Greek)
- 2. Manta John, Introduction to Informatics, Broken Hill Publishers, 1st edition, 2007. (in Greek)
- **3.** Lister Andrew M. Introduction to Modern Computer Science, Publisher DIAVLOS S.A. Books Publisher, 5th edition, 2000. (in Greek)