MASTER OF SCIENCE IN MANAGEMENT OF HEALTH AND SOCIAL CARE SERVICE

1. GENERAL

SCHOOL	ADMINISTRATIVE,		
	ECONOMICS AND SOCIAL SCIENCES		
DEPARTMENT	BUSINESS ADMINISTRATION		
DIVISION	MANAGEMENT OF HEALTH AND SOCIAL CARE		
	SERVICES		
LEVEL OF STUDIES	POSTGRADUATE		
COURSE CODE	MDYP 1-3 TOPI	С	1η
	SEME	STER	A
	APPLIED INFORMATION AND		
COURSE TITLE	COMMUNICATION TECHNOLOGIES (ICT) IN		
	HEALTI	H AND WELFAR	E .
INDEPENDENT TEACH	HING ACTIVITIES	WEEKLY	CREDITS
if credits are awarded for sep	arate components of the	TEACHING	CILDIIS
course, e.g. lectures, laborate	ory exercises, etc. If the HOURS		
credits are awarded for	r the whole of the		
course, give the weekly teach	hing hours and the total		
credits	5		
Lectures and Research Essay		4	7.5
Add rows if necessary. The organisati	on of teaching and the		
teaching methods used are described	in detail at (d).		
THEORY - LABORATORY			4-0
SEMESTER WORKLOAD			156
			100
COURSE TYPE	SPECIALIZED ARE	A	
general background, special			
background, specialised			
general			
development			
	COMPLIESORY		
CHOICE	COMPULSORI		
PREREQUISITE COURSES:	-		
	CREEK		
INSTRUCTION AND	GREEK		
FXAMINATIONS			
IS THE COURSE OFFERED	NO		
ТО			
ERASMUS STUDENTS			
COURSE WEBSITE (URL)	https://healthcare-mana	gement.uniwa.gr/	

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 purpose of the course is the acquisition of additional knowledge by the students in order to develop management skills and abilities of the applied Information and Communication Technologies in Health and Welfare that allow them to effectively participate in the operation and decision-making of the Health and Welfare units and in addition the familiarity with the management of the modern information equipment of the health units.

The individual objectives of the course:

- To increase students' knowledge of applied Information and Communication Technologies in Health and Welfare and their complexity.
- To introduce students to the concepts of Health Informatics, theories and tools.
- Familiarization of students with the terminology of the Electronic Health File, the classification, coding and security systems of Health and Telemedicine data.
- The development of critical awareness through the application of theory in practice.
- To contribute to the improvement of the students' written and oral communication skills for the specific topic.

Upon successful completion of the course, students will be able to:

- know extensively and actively discuss the structure and characteristics of Health and Welfare Information and Communication Technologies at the various levels of management hierarchy
- identify the Health IT tools that can support the Health and Welfare units
- recognize information decision-making systems and expert systems in the field of Health and Welfare
- understand and distinguish classification, coding and security systems in Health Information Systems
- develop and organize the administrative content of an Electronic Health Record at the various levels of care and in Telemedicine
- evaluate from a management point of view the level of integration of a Hospital Information System and propose effective solutions.
- analyze and support the management, protection and interoperability processes of the

digital equipment of Health units

• draft and present more clearly.

General Competences

Taking into consideration the general competences that tl Supplement and appear below), at which of the following	ne degree-holder must acquire (as these appear in the Diploma does the course aim?
Search for, analysis and synthesis of data and	Project planning and management
information,	Respect for difference and multiculturalism
with the use of the necessary technology	Respect for the natural environment
Adapting to new situations	Showing social, professional and ethical responsibility and
Decision-making	sensitivity to gender issues
Working independently	Criticism and self-criticism
Team work	Production of free, creative and inductive thinking
Working in an international environment	
Working in an interdisciplinary environment	Others
Production of new research ideas	

Search, analyze and synthesize data and information using the necessary technologies

- Adaptation to new situations
- Decision making
- •Team work
- Work in an international environment
- Work in an interdisciplinary environment
- Generation of new research ideas
- Project planning and management
- Respect for diversity and multiculturalism
- Respect for the natural environment
- Demonstrate social, professional and ethical responsibility and sensitivity to gender issues
- Exercise of criticism and self-criticism-Promotion of free, creative and inductive thinking

3. SYLLABUS

- 1. Introduction to Health Informatics
- 2. Applied IT and Communication Technologies in Health and Welfare
- 3. Information Management and Decision Support
- 4. Integrated Health Information Systems (IHS) and Hospital Information Systems (HIS)
- 5. Health Care Records-Levels of Automation
- 6. Business Intelligence in Health and Welfare Units
- 7. Telemedicine- Applications
- 8. Standards Health data classification and coding systems
- 9. Evaluation of Health Information Systems
- 10. Protection and Security of Health Information Systems
- 11. Supply and Management of IT Projects in the Health sector
- 12. Health and Welfare Information Exchange Interoperability and Marketplace
- 13. Presentation of Team Works

DELIVERV		hly anying of Distance	
Eace-to-face Distance learning etc	Face-to-face classroom suitably equipped, Distance		
race-to-face, Distance rearring, etc.	learning. Documents and presentations on an		
	asynchronous learning platform		
USE OF INFORMATION AND	Use of ICT in teaching Con	munication with students	
COMMUNICATIONS	Use of ICT in teaching, Con	infuncation with students,	
TECHNOLOGY	Learning process support through the e-class		
Use of ICT in teaching, laboratory	asynchronous platform		
education, communication with students	asynemonous plationin		
TEACHING METHODS	Activity	Semester workload	
The manner and methods of teaching are	Lectures	39	
described in detail.	Presentation of special	13	
fieldwork, study and analysis of	issues through inductive		
bibliography, tutorials, placements, clinical	approach and analytical		
practice, art workshop, interactive	discussion		
writing, artistic creativity, etc.	Field Exercise,	13	
	Presentation of specific		
The student's study hours for each learning	exercises with real data		
non- directed study according to the	of health and social care		
principles of the ECTS	organizations	10	
	Interactive teaching	13	
	topics through the		
	inductive and deductive		
	approach and detailed		
	discussion of possible		
	issues of an applied		
	nature.		
	Essay	39	
	In daman damt Churcher	20	
	Independent Study	39	
	(25 Hours of working per	156	
	ECTS)	150	
STUDENT PERFORMANCE	Language of Evaluation: Greek		
EVALUATION	I. Written final exam (60%)	which includes:	
Language of evaluation, methods of	-Multiple choice questions		
multiple choice questionnaires, short-	- Short answer questions		
problem solving, written work, essay/report oral examination public	- Comparative evaluation of theory elements		
presentation, laboratory work, clinical examination of patient, art interpretation.	II. Written Work and Presentation (40%)		
other Specifically-defined evaluation criteria are	Students deliver 20 minutes presentations and submit		
given, and if and where they are accessible to students.	the relevant handouts (PowerPoint slides & written		
report) to organize presentation folde		ion folders.	
	The quality of the presentation is the main criterion for		
	the evaluation. The quality r	esults from the good	

4. TEACHING and LEARNING METHODS - EVALUATION

appearance and structure of the material with the
corresponding sources, combined with the presentation
skills of the team.
Presentations require students to research, explain and
apply theory to case studies

5. ATTACHED BIBLIOGRAPHY

GREEK

- 2. Tsiridani M. Databases and Multimedia in Health-Distance Education and Telemedicine, BrokenHill Publications, 2012
- Karanikolas N. Informatics and Health Professions, New Technologies Publications, 2010
- 4. Mantas I. Health Informatics, BrokenHill Publications, 2007

ENGLISH

- Mantas J., Hasman A.: Health and Medical Informatics Applications-Educational Aspects, Proceedings of the European Federation of Medical Informatics Special Topic Conference, 2005.
- Berkowitz, L., McCarthy, C. (Eds.) Innovation with Information Technologies in Healthcare, 2013
- DeLone, W. H. & E. R. McLean. Measuring e-Commerce Success: Applying the DeLone and McLean Information Systems Success Model. International Journal of Electronic Commerce. 9 (1) pp. 31-4, 2004
- Mavrogeni S., Tsirintani M., et al: Supervision of Thrombolysis of acute myocardial infarction using Telemedicine. Journal of Telemedicine and Telecare; 6(1):54-58, 2000
- Moore, A. B., & Brooks, R. Learning Communities and Community Development: Describing the process. International Journal of Adult and Vocational Learning, 2001
- 10. Tsirintani M. et al: Investigating the Relationships among ERP Systems Success Dimensions in Health Care Industry: 21st International Congress "Decision Making in Health Systems, May 2009 Athens. Hellenic Operational Research Society and Health Management Department of Technological Institute of Athens
- 11. Tsirintani, M. Strategic Procedures and Revisions for Implementing Telemedicine and Telecare in Greece Journal of Applied Clinical Informatics, Shattauer 2012; 3:14-23
- 12. Tsirintani M. A Base Plan for Tomorrow's Patient Care Information Systems. XI

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Related Scientific Journals:

- Health Informatics Journal (http://jhi.sagepub.com/)
- Journal of the American Medical Informatics Association
- International Journal of Medical Informatics
- Journal of Telemedicine and Telecare
- Implementation Science
- Computer Methods and Programs in Biomedicine