MODULE OUTLINE PSAE52

1. GENERAL INFORMATION

SCHOOL	SCHOOL OF HUMANITIES		
PROGRAM COURSE	DIGITAL HUMANITIES: METHODS, TOOLS, PRACTICES (PSAE)		
LEVEL OF STUDY	POSTGRADUATE		
MODULE CODE	PSAE52	**SEMESTER OF STUDY**	2nd
MODULE TITLE	**Digital resources and Big Data**		
INDEPENDENT TEACHING ACTIVITIES *in case credits are awarded for separate components/parts of the course, e.g. in lectures, laboratory exercises, etc. If credits are awarded for the entire course, give the weekly teaching hours and the total credits*		**HOURS**	**CREDITS**
Weekly teaching hours 21-23 hours x 13 weeks		**283**	**10 ECTS**
COURSE TYPE Compulsory, Optional, Optional mandatory	Compulsory		
PREREQUISITE MODULES:	None		
LANGUAGE OF INSTRUCTION AND EXAMS	Greek		
THE MODULE IS OFFERED TO ERASMUS STUDENTS	No		
MODULE WEBSITE (URL)	https://www.eap.gr/en/psifiakes-anthropistikes-epistimes/topics/#psae52 Each module has its own space in the Learning Management System of EAP (https://courses.eap.gr/login/index.php), with controlled access (use of code) for students and teaching staff.		

2. LEARNING OUTCOMES

Learning Outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate (certain) level, which students will acquire upon successful completion of the course, are described in detail. It is necessary to consult:

Upon successful completion of this module, students will be able to:

- know the procedures necessary to create a database,
- organise information and adequately design databases to manage unimodal and multimodal data/material,
- be familiar with relational databases and be able to use mySQL environments,
- understand the importance of databases for storing, managing and retrieving information related to DH subject areas,
- extract and evaluate information from a variety of databases,
- assess the appropriateness of using databases in supporting a DH project.

General Competences

Taking into consideration the general competences that students/graduates must acquire (as those are described in the Diploma Supplement and are mentioned below), at which of the following does the course attendance aim?

Search for, analysis and synthesis of data and *Project planning and management*

information by the use of appropriate technologies, *Adapting to new situations* *Decision-making* *Individual/Independent work* *Group/Team work* *Working in an international environment* *Working in an interdisciplinary environment*	*Respect for diversity and multiculturalism* *Environmental awareness* *Social, professional and ethical responsibility and sensitivity to gender issues* *Critical thinking* *Development of free, creative and inductive thinking* *……* *(Other…….citizenship, spiritual freedom, social awareness, altruism etc.) …….* *Introduction of innovative research*
• Search for, analysis and synthesis of data and information by the use of appropriate technologies, • Adapting to new situations, • Decision-making, • Individual/Independent work, • Project planning and management, • Development of free, creative and inductive thinking.	

3. MODULE CONTENT

The aim of the module is to introduce students to the processes of collecting, analysing and presenting data in databases, in order to highlight the important information found in them. The module addresses issues of information organization, data collection and database design for use in DH projects, with particular reference to Big Data. In particular, the module presents the general principles and applications of databases for the collection and exploitation of unimodal and multimodal digital data. It introduces the Entity Relational Model and the Relational Model, as well as web databases and mySQL. Finally, the Semantic Web and RDF and XML languages are presented.

4. TEACHING METHODS--ASSESSMENT

MODES OF DELIVERY *Face-to-face, in-class lecturing, distance teaching and distance learning etc.*	Distance education with three Group Counseling Meetings (OSS) during the academic semester, held on weekends.
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY *Use of ICT in teaching, Laboratory Education, Communication with students*	We use : Remote meetings tools (cisco webex), Presentation software (e.g. power point), Additionally, the students use office automation tools, web browsers and e-reader for digital books.
MODULE DESIGN *Description of teaching techniques, practices and methods: Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, Internship, Art Workshop, Interactive teaching, Educational visits, projects, Essay writing, Artistic creativity, etc* *The study hours for each learning activity as*	

Activity	***Semester Workload***
3 OSS (x 4 hours)	12
2 tutorial exercises (2 x 20 hours)	40
1 semester assignment	60
Examination	2
Individual study (13 hours x	169

well as the hours of selfdirected study are given following the principles of the ECTS.	13 weeks)	
	Total module workload (hours)	**283**
STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS *Detailed description of the evaluation procedures.* *Language of evaluation, assessment methods, formative or summative (conclusive), multiple choice tests, short- answer questions, open-ended questions, problem solving, written work, essay/report, oral exam, presentation, laboratory work, other……etc.* *Specifically defined evaluation criteria are stated, as well as if and where they are accessible by the students*	Completion of written assignments during the academic semester which constitute a 40 percent of each student's grade, if a pass is obtained in the final or repetitive examination. Final oral exam grades constitute a 60 percent of the students' final course grade. For further information go to the **EAP Study Guide**.	

5. SUGGESTED BIBLIOGRAPHY

- *Suggested bibliography:*

Κεχρής, Ε. (2021). *Σχεσιακές Βάσεις Δεδομένων* (3η έκδ). Αθήνα: Κριτική.

Bell, C. (2012). *Expert MySQL.* Berkeley: CA: Apress.

Date, C. J., Kannan A. & Swamynathan, S. (2009). *An Introduction to Database Systems* (8th ed.). London: Pearson Education.

Gillenson, L. M. (2018). *Βασικές Αρχές Συστημάτων Διαχείρισης Βάσεων Δεδομένων.* Λευκωσία: Broken Hill.

Rob, P., Morris, S. & Coronel, C. (2011). *Database Systems Design, Implementation and Management* (9th ed.). Boston: Course Technology.

Silberschatz, A, Korth H. F. & Sudarshan, S. (2006). *Database System Concepts* (5th ed.). New York: McGraw-Hill.

Singh, S. K. (2011). *Database Systems Concepts, Designs and Application* (2nd ed.). London: Pearson Education.

Vaswani, V. (2010). *MySQL database usage & administration*. New York: McGraw-Hill.

-*Related scientific Journals:*

Digital Scholarship in the Humanities. Oxford University Press, https://academic.oup.com/dsh.

Digital Studies / Le champ numérique. Alliance of Digital Humanities Organisations under the direction of the Canadian Society for Digital Humanities/Société canadienne des humanités numériques (CSDH/SCHN) by the Open Library of the Humanities, https://www.digitalstudies.org.

Interdisciplinary Digital Engagement in Arts & Humanities (IDEAH), Canadian Social Knowledge Institute, https://ideah.pubpub.org.

International Journal of Digital Humanities. Springer, https://www.springer.com/journal/42803.

Journal of Database Management (JDM), IGI-Global, https://www.igi-global.com/journal/journal-

database-management/1072.

Transactions on Database Systems, ACM, https://dl.acm.org/journal/tods.

Transactions on Knowledge and Data Engineering, IEEE, https://www.computer.org/csdl/journal/tk.
Digital humanities quarterly DHQ. Association for Computers and the Humanities (ACH) and the Alliance of Digital Humanities Organizations (ADHO), https://www.digitalhumanities.org/dhq.