

Academic Year: ( 2019 / 2020 )

Review date: 20/04/2020 12:39:25

Department assigned to the subject: Library and Information Sciences Department

Coordinating teacher: SAN SEGUNDO MANUEL, ROSA

Type: Electives ECTS Credits : 6.0

Year : 1 Semester : 0

**REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)**

Degree

**OBJECTIVES****BASIC SKILLS**

CB8 What are the students that can be used

CB9 What students communicate

CB10 That students possess the learning skills that allow them to continue studying in a way that will be largely self-directed or autonomous.

**GENERAL COMPETENCES**

CG1 Understand the impact of new digital environments on libraries, archives and other documentation services, as well as the role that professionals and experts in information and documentation should play in this technological and social context.

CG2 Identify lines of technological innovation in libraries and archives and documentation centers, and undertake possible projects for their development. Do you

CG5 Recognize the growing importance of teamwork in the workplace and ability to adapt and integrate in different work environments, maintenance relationships and fluid communications.

CG8 Value rigorous and well-done work, when planning, organizing and developing one's own activities, demonstrating initiative, creativity and a sense of responsibility, maintaining interest throughout the process, and feeling personal satisfaction with the results achieved.

CG9 Integrate knowledge, trial forms and communicate their conclusions, as well as the latest knowledge and reasons that are sustainable, specialized public and not specialized in ambiguities.

CG10 Recognize the need for continuous adaptation to the media in the productive sectors, and to technological and organizational innovations related to the profession, showing interest in the activities of the profession, the use of new techniques, processes, tools and technologies

**SPECIFIC COMPETENCES**

CE1 Know and analyze the current state and future prospects of technological progress and its application in libraries and archives.

CE5 Examine the main security problems associated with network information, as well as knowledge of the protection systems in this digital environment

**RESULTS OF LEARNING**

This subject focuses on training students in the various technical and legal aspects of the resources that determine the support tools for information and documentary tasks. A crucial aspect of the training is that students acquire the necessary skills for the implementation of digital document management projects (EDRMS). For this, the student will be provided with the necessary skills to plan, analyze and manage the implementation of a solution suitable for typical scenarios in the framework of digital continuity and access to information in networks. You will be trained in basic skills to evaluate different technological alternatives for the creation of EDRMS, ensuring your access by authorized users and institutions.

The student after passing the subject must:

Design and evaluate initiatives and strategies for managing large volumes of data in public and private

organizations

Know tasks related to Data in terms of data debugging and interoperability.

Apply techniques to prepare studies and reports that allow analyzing and evaluating data management in an organization.

Know and understand the objectives of information security and threats and vulnerabilities of information systems.

Know and understand the problems of authentication and integrity of the electronic document and the tools to guarantee them.

Know and apply the legal regime of administrative transparency and public information.

Understand and apply the legal regime of information and documentation in public organizations on storage media.

Select open source or commercial tools for the implementation of effective and efficient document and file management systems.

Analyze the most relevant technological resources in the treatment of digital information.

Use and apply the necessary methods, techniques and tools in the implementation, development and exploitation of digital information systems and services.

## DESCRIPTION OF CONTENTS: PROGRAMME

### ITEM 1. Technological resources in the knowledge society

1.1. Electronics and information technology universe

1.2. Production and economic value of technological

1.3. The new society and economy based on technological resources

1.4. Technology Resources in Public Administration

1.5. Programs and projects related to technological resources of the knowledge society in the European Union and Spain

### ITEM 2. Technological resources in the Digital Library

#### 2. 1. The digital library

#### 2. 2. Technological resources in the digital library

2.2.1. Navigation tools and search engines

2.2.2. Technology of Participation

2.2.3. New technologies in libraries open

2.2.4. Web Technologies

### THEME 3: Technological development in Information Systems

3.1. Elements, tools and technological resources of an information system

3.2. Planning and evaluation of processes and technology services. Technology monitoring.

3.3. The technological resources for the dissemination and openness to the public digital libraries

### ITEM 4. Structuring technologies of digital information

4.1. Registry Tools digital documents

4.2 Metalanguage

4.3. Semantic Web

4.3.1. Semantic interoperability

4.3.2. Policy interoperability with other systems

### ITEM 5. Access to digital technology resources

5.1. Insufficient access to technology resources. Structural and formal

5.2. Application of advanced information retrieval

- 5.3. Retrieval interfaces
- 5.4. User behavior
- 5.5. Human-computer paradigm
- 5.6. New forms of interaction with digital information and objects

#### ITEM 6. Digital Technology Resource Industries

- 6.1. Current technological resource industries
- 6.2. Industry experience
- 6.3. New access to technology resources
- 6.4. Ordering of digital technology

#### ASSESSMENT SYSTEM

<b>% end-of-term-examination/test:</b>	50
<b>% of continuous assessment (assignments, laboratory, practicals...):</b>	50

The evaluation continues:

- SE1 Participation in the 6 forums in virtual educational platform 5%
- SE2 Implementation of the practices and insertion in the 6 forums 20%
- SE3 Implementation of 6 evaluable and scoring questionnaires 15%

Total evaluation continues 50%

The final evaluation:

It is essential to carry it out, it will assume the rest of the qualification (50%) through:

SE4 Final Work 35%, Final Questionnaire 15% and Final Exam 15% \*

Total final evaluation 50%

The final grade will be the sum of  
SE1 SE2 SE3 SE4

\* The final exam will be done in face-to-face mode, at Carlos III University or at a university-sponsored center that guarantees the student's identity, and must pass it in order to be able to approve the corresponding subject / subject.

System of	
Evaluation	Minimum Weighting (%) Maximum Weighting (%)
SE1	5 5
SE2	20 20
SE3	15 15
SE4	50 50

#### BASIC BIBLIOGRAPHY

- RAMONET, Ignacio (ed.). Internet, el mundo que llega: Los nuevos caminos de la comunicación. , Alianza Editorial,, 1998
- Arms, William Digital Libraries, Massachusetts: MIT Press, 2000. Edición online actualizada en 2005:  
<http://www.cs.cornell.edu/wya/diglib/>.
- CASTELLS, Manuel. La Era de la Información. Economía, Sociedad y Cultura, Madrid: Alianza Editorial, 2003
- Comisión Europea. Sociedad de la Información i2010: Iniciativa de bibliotecas digitales,  
[http://ec.europa.eu/information\\_society/activities/digital\\_libraries/index\\_es.htm](http://ec.europa.eu/information_society/activities/digital_libraries/index_es.htm).