Universitat de Lleida

DEGREE CURRICULUM

DOCUMENTATION AND BIBLIOGRAPHIC RESOURCES IN BIOTECHNOLOGY

Coordination: SANTIVERI MORATA, FRANCISCA

Academic year 2022-23

Subject's general information

Subject name	DOCUMENTATION AND BIBLIOGRAPHIC RESOURCES IN BIOTECHNOLOGY
Code	101643
Semester	1st Q(SEMESTER) CONTINUED EVALUATION
Typology	

Degree	Course	Character	Modality
Bachelor's Degree in Biotechnology	2	OPTIONAL	Attendance-based

Course number of credits (ECTS)	3
Type of activity, credits, and groups	

Activity type	PRAULA	TEORIA
Number of credits	2	1
Number of groups	1	1

Coordination	SANTIVERI MORATA, FRANCISCA
Department	CROP AND FORESTRY SCIENCES
Teaching load distribution between lectures and independent student work	Face to face 30 h (This year: 14 hours in informatic classroom and 16 hours by videoconference working on guided activities) Autonomous work 45 h
Important information on data processing	Consult this link for more information.
Language	50 % Catalan 50 % Spanish
Distribution of credits	Theory: 1 credit Practise: 2 credits

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
SANTIVERI MORATA, FRANCISCA	paquita.santiveri@udl.cat	3	

Learning objectives

Contents	Objectives
Lesson 1: Search the information I	Knoledwge of searching information Distinguish the main sources of information
Lesson 2: Search the information II	Learn how to search efficiently
Lesson 3: Evaluate the information	Knoledwge about the uselfulness of the information
Lesson 4: Organize the information	Know how to organize the information. Learn to write citations and bibliographic references. Learn how to use bibliographic referernce managers
Lesson 5: Comunicate the information: Plagiarism and copyright	Understand the legal and social aspects about the use of information
Lesson 6: Scientific and technical language	Use the style in writing scientific documents
Lesson 7: Formal aspects of scientific and technical language	Use adequately the diferents elements of writing
Lesson 8: Types of writting documents: scientific papers	Prepare, analyze and review diferents types of scientific documents
Lesson 9: Other writting documents	Prepare the diferents types of written documents used in scientific communications
Lesson 10: Oral communications	Prepare and present oral communications

Competences

General competencies

CG1 Be able to selectively search and use sources of information necessary to achieve the training objectives.

CG2 Interpret scientific-technical information with a critical sense, and be able to make presentations based on this information.

CG4 Know and use adequately the scientific and technical vocabulary of the different areas of Biotechnology.

CG8 Be able to make a critical judgment about the ethical, legal and environmental implications of biotechnology.

Transversal skills

CT1 Be able to make comprehensible written and oral reports on the work done, with a justification based on the theoretical-practical knowledge obtained. (Strategic competence of the UdL).

CT2 To be able to communicate and communicate in the international field in their professional development. (Strategic competence of the UdL)

CT3 Use information and communication tools and techniques for data analysis and the preparation of oral and

written reports and other training and professional activities. (Strategic competence of the UdL)

Specific skills

CE39 Know how to search and obtain information from patent databases and know the process of applying for a new patent.

CE40 Know how to critically judge public information on biotechnological innovations and the associated risks and be able to discuss these topics with science-based criteria.

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Subject contents

Contents

- Module 1. Techniques in information skills
  - Introduction. The value of information. Identification of information needs. Types of scientific-technics reports
  - Library sources of information. Bibliografic catalog. Electronic jounals specialised in Biotechnology
  - Management of information sources. Bibliographic search. Information sources
  - Evaluation of information. Criteria for evaluating and selecting information. Monitoring. Alerts.
  - Use of information. References. Bibliographic management programs. Ethical and legal use.
- Module 2. Techniques in oral and writting communication
  - Scientific-Technic language. Characteristics of scientific text. Principles of styles .
  - Formal aspects of technical language. Abstract. Typgrafic elements. Units and symbols. Tables and Figures. References.
  - Written documents. Scientific papers: Structure
  - Other documents: Reports, projects, review papers, Curriculum, acadèmic documents.
  - Oral presentacions. Preparing the presentation. Elaboration of visual material. Presentation.

Activities

MODULE 1

Activity 1. Bibliographic search about a new biotechnology product

Activity 2. Bibliographic citations and references

Activity 3. Plagiarism exercises

MODULE 2

Activity 4. Written exercises

Activity 5. Preparation of a written report

Activity 6. Oral presentation

Methodology

Each module has pressencial sesions combined with practical activities and reports which must be submitted on the data indicated.
Student will haver teaching resources in 'Resources' (Campus virtual). Each activity will be compemented with a explanatory script.

Development plan

Session		Prof.	Lesson	Activity
1		PS Biblioteca	Presentation. Lesson 1	
2		Biblioteca	Lesson 1 Lesson 2	Act. 1
3		Biblioteca	Lesson 2	
4		Biblioteca	Lesson 3	
5		Biblioteca	Lesson 3	
6		Biblioteca	Lesson 3	Act. 2
7		Biblioteca	Lesson 4	
8		Biblioteca	Lesson 4	
9		PS	Lesson 5	Act 3
10		PS	Lesson 6	Act. 4.1
11		PS	Lesson 6	Act 4.2
12		PS	Lesson 7	Act. 4.3
13		PS	Lesson 8	Act. 4.4
14		PS	Lesson 9	Act 5.1, 5.2
15		PS	Lesson 9	Act 6

Evaluation

The evaluation will be based on different activities:

MODULE 1 (50 %)

Activity 1. (15 %)

Activity 2. (20 %)

Activity 3. (15 %)

MODULE 2 (50 %)

Activity 4. (10 %)

Activity 5. (20 %)

Activity 6. (20 %)

Some activities will be done and delivered during teaching hours. If no activity is handed in, the final grade will be a maximum of 5.

Bibliography

Bibliografia

Anderson, P.V. 2010. Technical Communication, 7ª ediciò. Wadsworth Cengage Learning, Boston.

Bonich, M., Cervera-Farré, A., i G. Santos-Hermosa. 2011. Cómo hay que iniciar una búsqueda. Universitat Oberta de Catalunya, Barcelona.

Faigley, L. 2012. The Brief Penguin Handbook. 4º ediciò. Longman Pearson, Harlow (UK).

Osca Lluch, J., C. Civera Mollá, i M. Peñaranda Ortega. 2009. *Consecuencias de los errores en las referencias bibliográficas. El caso de la revista Psicothema*. Psicothema 21.2: 300-303