| | | Teaching G | Guide | | | |
|-------------------------|---|-------------------|--------------------|-----------------------|------------------------------------|--|
| | Identifying Data 2018/1 | | | 2018/19 | | |
| Subject (*) | Biomedical knowledge management | nt | | Code | 614522022 | |
| Study programme | Mestrado Universitario en Bioinforr | nática para Cien | cias da Saúde | | | |
| | | Descripto | ors | | | |
| Cycle | Period | Year | | Туре | Credits | |
| Official Master's Degre | e 1st four-month period | Second | t | Optional | 3 | |
| Language | SpanishEnglish | | · | | | |
| Teaching method | Face-to-face | | | | | |
| Prerequisites | | | | | | |
| Department | Computación | | | | | |
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| Web | http://www.dc.fi.udc.es/~parapar/ | | | | | |
| General description | In this course, we will explore the the | neoretical conce | ots of information | management, as w | rell as the software and tools for | |
| | obtaining, extracting, labelling, visu | alising and explo | oiting biomedical | knowledge. We will | explore the syntactic and semantic | |
| | modelling of information, methods | of obtaining and | collecting informa | ation, methods of int | egration, extraction and | |
| | terminological labelling, standards | for semantic rep | resentation of bio | medical information | , and techniques for analysis and | |
| | visualisation of knowledge | | | | | |

| | Study programme competences |
|------|---|
| Code | Study programme competences |
| A6 | CE6 - Ability to identify software tools and most relevant bioinformatics data sources, and acquire skill in their use |
| В3 | CB8 - Students to be able to integrate knowledge and deal with the complexity of making judgements from information that could be |
| | incomplete or limited, including reflections on the social and ethical responsibilities linked to the application of their skills and judgments |
| B6 | CG1 -Search for and select the useful information needed to solve complex problems, driving fluently bibliographical sources for the field |
| C3 | CT3 - Use the basic tools of the information technology and communications (ICT) necessary for the exercise of their profession and lifelong learning |
| C8 | CT8 - Rating the importance that has the research, innovation and technological development in the socio-economic and cultural progress of society |

| Learning outcomes | | | |
|-------------------|-------|----------|------|
| Learning outcomes | | | |
| Learning outcomes | Study | y progra | ımme |
| | COI | mpeten | ces |
| | AJ6 | BJ6 | CJ3 |
| | AJ6 | BJ3 | |
| | | BJ6 | |
| | | BJ3 | CJ3 |
| | | BJ6 | CJ8 |
| | | | CJ8 |

| | Contents |
|--|-----------|
| Topic | Sub-topic |
| Introduction | - |
| Standards for biomedical information | - |
| Resources for biomedical information | - |
| Exploitation of biomedical information | - |
| Ethical and legal aspects | - |

Planning

| Methodologies / tests | Competencies | Ordinary class | Student?s personal | Total hours |
|---------------------------------|----------------|----------------|--------------------|-------------|
| | | hours | work hours | |
| Laboratory practice | C3 C8 | 8 | 22 | 30 |
| Supervised projects | B3 B6 | 2 | 9 | 11 |
| Mixed objective/subjective test | A6 B3 B6 C3 C8 | 0 | 1 | 1 |
| Guest lecture / keynote speech | A6 B3 | 11 | 22 | 33 |
| Personalized attention | | 0 | | 0 |

(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

| | Methodologies |
|----------------------|--|
| Methodologies | Description |
| Laboratory practice | Use of standards, resources and methods of exploitation to solve problems |
| Supervised projects | Tutored work proposed by the teacher and developed by students either in groups or individually. |
| Mixed | The mastery of theoretical and operative knowledge of the subject will be evaluated. |
| objective/subjective | |
| test | |
| Guest lecture / | Lessons about the contents of the subject by encouraging student participation |
| keynote speech | |

| | Personalized attention |
|---------------------|--|
| Methodologies | Description |
| Laboratory practice | The teacher will advise the particular problems of each student taking into account their degree of effort and participation |
| Supervised projects | during the lessons |
| | |
| | |

| | | Assessment | |
|----------------------|----------------|--|---------------|
| Methodologies | Competencies | Description | Qualification |
| Mixed | A6 B3 B6 C3 C8 | Questions about acquired knowledge. | 50 |
| objective/subjective | | Questions that involve reasoning based on the knowledge acquired to solve practical | |
| test | | problems of real interest. It is mandatory to reach 40% of the grade to pass the subject | |
| Laboratory practice | C3 C8 | Correction and completeness of the practices proposed for the proper use of the | 40 |
| | | explained tools. It is mandatory to reach 40% of the grade to pass the subject | |
| Supervised projects | B3 B6 | Follow up of the work and evaluation on the result achieved and individual | 10 |
| | | participation of the students in the classes. It is mandatory to reach 40% of the grade | |
| | | to pass the subject | |

Assessment comments

For the second opportunity, both practice and theory will be evaluated in the mixed exam. If the minimum grade in the different tests is not reached, the maximum grade of the student will be 4.5. For part-time students, the grading scale and continuous assessment are the same as for other students. If plagiarism is detected the student will not pass the subject.

| | Sources of information |
|---------------|--|
| Basic | - Pease, Cooper & Coo |
| Complementary | |

| Recommendations | |
|--|--|
| Subjects that it is recommended to have taken before | |
| | |



| Subjects that are recommended to be taken simultaneously |
|--|
| |
| Subjects that continue the syllabus |
| |
| Other comments |
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(*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.