## Scientific information acquisition
### Educational subject description sheet

## Basic information

| | |
|---|---|
| **Field of study**<br>Joint Bachelor in Sustainability | **Education cycle**<br>2025/26 |
| **Speciality**<br>- | **Subject code**<br>UJ.WPAJBSS.810.02468.25 |
| **Organizational unit**<br>Faculty of Law and Administration | **Lecture languages**<br>english |
| **Study level**<br>first cycle (joint degree programme) | **Disciplines**<br>Informatics |
| **Study form**<br>full-time degree programme | **ISCED classification**<br>0611 Computer use |
| **Education profile**<br>General academic | **USOS code** |
| **Mandatory**<br>obligatory | |

| | |
|---|---|
| **Subject coordinator** | Bogusław Kołodziej |
| **Lecturer** | Bogusław Kołodziej |

| **Period**<br>Semester 1 | **Examination**<br>assessment<br><br>**Activities and hours**<br>Lecture with elements of a discussion class: 10 | **Number of ECTS points**<br>1.0 |
|---|---|---|

## Goals

| C1 | Transfer of knowledge in the field of obtaining scientific information while maintaining the rights to data and works. |
|---|---|

## Subject's learning outcomes

| Code | Outcomes in terms of | Effects | Examination methods |
|---|---|---|---|
| **Knowledge – Student knows and understands:** | | | |
| W1 | methods of collecting and sharing data; types of scientific publications and licences for their sharing; methods and tools for searching for scientific information; the importance of intellectual property protection; good citation practices. | JBS_K1_W07 | credit |
| **Skills – Student can:** | | | |
| U1 | find sources of information and scientific articles; cite sources accordingly. | JBS_K1_U01, JBS_K1_U03 | credit |
| **Social competences – Student is ready for:** | | | |
| K1 | defend the importance of economic and geographical data and methods as a basis for decision-making, especially in the context of public policies | JBS_K1_K04, JBS_K1_K05 | credit |

## Calculation of ECTS points

| Activity form | Activity hours* |
|---|---|
| Lecture with elements of a discussion class | 10 |
| preparation for classes | 10 |
| exercises performance | 5 |

| Student workload | Hours 25 | ECTS 1.0 |
|---|---|---|

* hour means 45 minutes

## Study content

| No. | Course content | Subject's learning outcomes |
|---|---|---|
| 1. | Introduction. The problem of the credibility of the source and false information. Public and subscribed databases. Journal rankings. Citations and copyrights. | W1, U1, K1 |
| 2. | Searching in open research data repositories such as Google Scholar (advanced search). | W1, U1, K1 |
| 3. | Searching in subscribed online databases (databases available to the students of the programme). Examples from natural and social sciences. | W1, U1, K1 |
| 4. | Searching in subscribed online databases (databases available to the students of the programme). | W1, U1, K1 |
| 5. | Searching in subscribed online databases (databases available to the students of the programme). Searching the internet for Creative Commons images other related stuff. | W1, U1, K1 |

# Course advanced

**Teaching methods :**

conversation lecture, solving tasks, consultation

| Activities | Examination methods | Credit conditions |
|---|---|---|
| Lecture with elements of a discussion class | credit | Pass/fail: attendance, completion of online tasks, passing the final quiz |

# Entry requirements

None

# Literature

**Obligatory**

1. Penders B (2018) Ten simple rules for responsible referencing. PLoS Comput Biol 14(4): e1006036. https://doi.org/10.1371/journal.pcbi.1006036 Awesome Public Datasets. [Access: 8.04.2021] https://github.com/awesomedata/awesome-public-datasets

# Effects

| Code | Content |
|---|---|
| JBS_K1_K04 | The graduate can critically assess and verbalize own competencies and skills related to different aspects of sustainability as well as their need for development. |
| JBS_K1_K05 | The graduate can defend the importance of scientific data and methods as a basis for decision-making. |
| JBS_K1_U01 | The graduate can critically analyse academic literature, formulate research questions and conduct research under supervision. |
| JBS_K1_U03 | The graduate can apply adequate methods and tools, including selected IT tools, to solve problems related to data collection, analysis, and management in the context of sustainability. |
| JBS_K1_W07 | The graduate can apply the theory and methodology of disciplines included in the selected specialisation track to sustainability-related problems, taking into consideration practical limitations such as protection of intellectual property. |