**Course Syllabus**

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| Title of the course | **Information Systems (offered in English) (for 2nd year students)** |
| Title of the Academic Programme  | Bachelor’s Programme 'Sociology and Social Informatics' |
| Type of the course  | Obligatory |
| Prerequisites | Information Systems I, Theory of Argumentation and Academic Writing |
| ECTS workload | 5 |
| Total indicative study hours | Directed Study | Self-directed study  | Total |
| 40 | 150 | 190 |
| Course Overview | The goal of the course is to introduce the methods of working with academic and news databases.During the course, the students learn to apply information resources and specialized software to preparing analytical literature reviews (bibliographic databases – Web of Science, Scopus) and reviewing the media data (news databases – Integrum, Factiva).We discuss the strategies of information retrieval and the principles of organizing a literature review, including the citation practices. The large part of the course is devoted to the principles of working with bibliographic databases: composing search query to gather citation data, using the in-built instruments to analyze scientific trends, exporting the data from the database. Using the obtained data, students practice building citation maps in the scientific landscape visualizing software (VOSviewer and CitNetExplorer) and write a literature review in a chosen field. The last part of the course is devoted to working with news databases. |
| Intended Learning Outcomes (ILO) | Upon the course completion, students are expected to be able to:* Work with various types of databases used for academic and news analytics;
* Find relevant data and academic literature;

Apply social network analysis methods to analyze citation data;* Use the results obtained during the preparation of analytical reviews for their coursework.
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| Teaching and Learning Methods | Project-based learning, peer-to-peer learning, peer-to-peer assessment, contextual learning. |
| Content and Structure of the Course |
| **№** | **Topic / Course Chapter** | **Total** | **Directed Study** | **Self-directed Study** |
| **Lectures** | **Seminars** | **Tutorials** |
| 1 | Principles of the literature review organization | 30 | 6 | 4 |  | 20 |
| 2 | Principles of working with citationdatabases (Web of Science andScopus) | 66 | 6 | 6 | 4 | 50 |
| 3 | Creating bibliographic maps inVOSViewer and CitNetExplorer | 70 |  | 6 | 4 | 60 |
| 4 | Principles of working with news databases (Integrum, Factiva) | 24 |  |  | 4 | 20 |
| **Total study hours** | 190 | 12 | 16 | 12 | 150 |
| Indicative Assessment Methods and Strategy  | Cumulative grade consists of: * 3 homework assignments (40%)
* Final Project and Presentation (60%)
* Resulting grade for the course is equal to cumulative grade.
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| Readings / Indicative Learning Resources | Mandatory 1. Goker, A., Davies, J., & Ridley, D. D. (2009). *Information Retrieval: Searching in the 21st Century*. New York, United Kingdom: John Wiley & Sons, Incorporated. [https://proxylibrary.hse.ru:2176/article/10.1007%2Fs10791-010-9159-z](https://proxylibrary.hse.ru:2176/article/10.1007/s10791-010-9159-z)
2. Wang, G. T., & Park, K. (2015). *Student Research and Report Writing: From Topic Selection to the Complete Paper*. Hoboken, United Kingdom: John Wiley & Sons, Incorporated. <https://ebookcentral.proquest.com/lib/hselibrary-ebooks/detail.action?docID=4205820>

Optional 1. Martín-Martín, A., Orduna-Malea, E., Thelwall, M., & López-Cózar, E. D. (2018). Google Scholar, Web of Science, and Scopus: a systematic comparison of citations in 252 subject categories. *SocArXiv*. <https://proxylibrary.hse.ru:2054/science/article/pii/S1751157718303249>
2. Torraco, R. J. (2005). Writing Integrative Literature Reviews: Guidelines and Examples. *Human Resource Development Review, 4*(3), 356–367. <https://proxylibrary.hse.ru:2145/doi/pdf/10.1177/1534484305278283>
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| Indicative Self- Study Strategies | **Type** | **+/–** | **Hours** |
| Reading for seminars / tutorials (lecture materials, mandatory and optional resources) | + | 40 |
| Assignments for seminars / tutorials / labs | + | 40 |
| E-learning / distance learning (MOOC / LMS) | - |  |
| Fieldwork | - |  |
| Project work | + | 70 |
| Other (please specify) | - |  |
| Preparation for the exam | - |  |
| Academic Support for the Course | Academic support for the course is provided via e-mail |
| Facilities, Equipment and Software | Computer class, access to HSE electronic resources, MS Office, Zotero/Mendeley, VOSviewer, CitNetExplorer |
| Course Instructor | Lecturer Alla Loseva, MA |