

Course descriptions

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COURSE DESCRIPTION

Academic year: 2026/2027	
University: Comenius University Bratislava	
Faculty: Faculty of Arts	
Course ID: FiF.KKIV/A-boIS-404/22	Course title: Information Systems
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 16.	
Educational level: I.	
Prerequisites:	
Antirequisites: FiF.KKIV/A-boIS-021/15 or FiF.KKIV/A-boIS-062/21	
Course requirements: The teacher will accept a maximum of two absences in case they are supported with relevant documentation. Assignments: A. PP presentation – selected information/data media – principles of functioning (schemas, pictures), evolution, characteristics, capacity, usage, etc. – deadlines for handing in and presenting will be defined in the schedule. B. Summary of a selected article in the journal Digital Humanities Quarterly (http://www.digitalhumanities.org/dhq/), volumes 2019 and 2020. The article should present a specific research, extended summary of a topic, methodology, or practical functioning of specific systems. Summary will be handed in in two forms - textual (max. 2 pages, covering the most essential information), and a PP presentation (max. 10 minutes) C. The final test in the last week of the instruction period, covering principal topics of the course Assessment – student can obtain max. 20 points overall. Presentation – information media – max. 5 points Summary of the article – max. 5 points Test – max. 10 points Grading scale: A: 20-19 points, B: 18-17, C: 16-15, D: 14-13, E: 12 Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The students obtain basic overview of background concepts connected with systems approach in the area of information management, and of the types of information systems. They are acquainted with the overall structure of information systems and library systems as a prototype of IS. They understand principal interconnections in individual IS modules' operation and are able to recognise typical features of the most representative technologies, standards and formats deployed in information systems.	

Class syllabus:

Introduction to the topic – systems / information systems
 Information environment in the business sphere. Information strategy of an organisation.
 Information systems in the entrepreneurial environment
 Library-information systems – evolution of automation. Automation strategies. Library networks – beginnings and development, OCLC.
 Digitisation. Digitisation project strategies. Data protection. Technology of digitisation.
 Standards and standardisation – standards in the domain of IS.
 Communication format MARC. Origins, evolution, functions.
 Communication protocol Z39.50. Characteristics, main functions.
 Digital libraries. Characteristics, main functions. Metadata. OAI. OAIS.
 Current trends and technologies in the evolution of IS - AI, cloud computing, big data, blockchain.
 Information systems in practice – National register of publications, patents, web archiving.

Recommended literature:

KIMLIČKA, Š. Informačné systémy : teoretické východiská, princípy, metódy projektovania. Martin : SNK, 2006. 240 s.
 VYMĚTAL, J. – DIAČIKOVÁ, A. – VÁCHOVÁ, M. Informační a znalostní manažment v praxi. Praha : LexisNexis, 2006. 399 s. ISBN 80-86920-01-1.
 KIMLIČKA, Š. Metodika výberu knižničného softvéru. Bratislava : STIMUL, 1997. 53 s.
 MAKULOVÁ, S. Automatizácia knižníc : problémy, východiská, postupy. Bratislava : Stimul, 1993. 299 s.
 ZWASS, Vladimir. Information system. In: Encyclopaedia Britannica [online]. London, Encyclopaedia Britannica Inc., 2017. [cit. 2018-09-26]. Dostupné z: <https://www.britannica.com/topic/information-system>
 BOURGEOIS, D.T. Information systems for business and beyond [online]. Saylor Academy 2019. <https://opentextbook.site/informationssystem2019/>.
 MARC Standards [online]. Washington, Library of Congress 2021. <https://www.loc.gov/marc/marcinf.html>
 HEALY, Leigh Watson. Z39.50: A Primer on the Protocol. Bethesda : NISO Press 2002. https://www.niso.org/sites/files/Z3950_primer.pdf
 Open Archives Initiative. Cornell University Library. <https://www.openarchives.org/>
 ISO 14721:2012. Space data and information transfer systems — Open archival information system (OAIS) — Reference model. ISO 2012. <https://www.iso.org/standard/57284.html>
 WERBACH, K. The Blockchain and the new architecture of trust. Cambridge: MIT Press 2018. 322 s.

Languages necessary to complete the course:

Slovak

Notes:**Past grade distribution**

Total number of evaluated students: 164

A	B	C	D	E	FX
24,39	23,17	26,83	14,63	4,27	6,71

Lecturers: prof. PhDr. Jaroslav Šušol, PhD.

Last change: 02.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2026/2027	
University: Comenius University Bratislava	
Faculty: Faculty of Arts	
Course ID: FiF.KKIV/A-boIS-403/22	Course title: Introduction into Information Science
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 15.	
Educational level: I.	
Prerequisites:	
Antirequisites: FiF.KKIV/A-boIS-023/15	
Course requirements: Presentation of a selected topic of the subject, a final written essay paper about a selected issue in the field of Information Science, (18000 signs, 10 pages, 100 points), test / written exam (20 points), written tasks (2-3) to current topics of Information Science. Active participation in lectures and seminars, continuous completion of tasks. Evaluation of essays: content (30), structure (20), analysis (20), interpretation, style (20), reference (10): 100 points. Evaluation of presentations: 3-0. Tests: 2 questions: max. 20 points, min. 11 points. Violation of academic ethics will be punished, and the student will lose all the received points in the relevant assessment. The exact date for continuous evaluation and the topic of the paper will be announced at the beginning of the semester. The dates for the presentations and test will be announced no later than in the last week of the instruction period. The teacher will accept a maximum of two absences with documentation. Scale of assessment: 100 % continuous assessment Grading scale: A (100-92 %), B (91-85 %), C (84-76 %), D (75-68 %), E (67->60 %), Fx (≤ 60 %), Scale of assessment (preliminary/final): Scale of assessment: 100 % continuous assessment Grading scale: A (100-92 %), B (91-85 %), C (84-76 %), D (75-68 %), E (67->60 %), Fx (≤ 60 %),	
Learning outcomes: After the completion of the subject the students will be able understand mission of information science, including its history, concept of information, education and trends. They will learn about main paradigms and main topics of information science, including research, methodology and personalities – founders of information science. Students will improve in analyses of the main topics of information science, i.e. information retrieval, information behavior, digital libraries and bibliometrics and informetrics. Students should understand the social role of information science in the information society.	
Class syllabus:	

Information science: subject and brief history. Data, information, knowledge. Information process. Information interactions. Contexts of information use: science, education, workplaces, everyday information practices.

Terminology of information science. The concept of information, Main categories of information science. Relevance, document, information retrieval, information seeking, information behavior, digital libraries, information ecology, etc. Methodological background.

Information science as a transdisciplinary subject. Two main historical theoretical paradigms: systems and user paradigms of information science. Founders and pioneers of information science: Gerard Salton, Jesse Shera, Jason Farradane, Eugene Garfield, Bertram Brookes and others.

Information as a main concept of information science. Approaches to research of information: communicative, cognitive, semiotic, logical, structural, social, multitype, deconstructivism. Types of information, physical, biological, social, scientific information. L. Floridi, M. Buckland.

Information retrieval and information seeking. Cognitive and physical paradigms, information retrieval systems. Main authors: N. Belkin, T. Saracevic, P. Ingwersen, C.C. Kuhlthau, B. Dervin, M. Bates. Knowledge organization.

Human information behavior, brief history and trends. T.D. Wilson, B. Dervin, D. Ellis, C.C. Kuhlthau, M. Bates etc. Information literacy. Information ethics. L. Floridi, R. Capurro.

Bibliometrics and informatics. Brief history and trends. E. Garfield, ISI. WoS. Digital libraries, brief history and trends. Altmetrics. Digital science, open science.

Related topics. Social informatics. Applied informatics. Knowledge management. Education in information science, brief history and trends (i-schools).

Trends in information science research. Digital libraries, information ecology, information ethics. Artificial intelligence – applications in information retrieval, information behavior, information management, information design. Big data, data management.

Recommended literature:

STEINEROVÁ, Jela a Miriam ONDRIŠOVÁ (eds.). (2020). Informačná veda. Výkladový slovník. (Information Science. An Explanatory Dictionary). Authors: Jela Steinerová, Jaroslav Šušol, Pavol Rankov, Lucia Lichnerová, Ľudmila Hrdináková, Miriam Ondrišová, Marta Špániová, Katarína Buzová, Andrea Hřčková. Bratislava: Univerzita Komenského v Bratislave, 2020. 278 s. ISBN 978-80-223-4866-9.

STEINEROVÁ, Jela. (2016). Informačná veda: tradície, teórie a trendy - smerom k digitálnej vede. In: Knižničná a informačná veda. 26. Zborník FiFUK. Bratislava: UK, 2016, s. 9-28.

STEINEROVÁ, Jela – Grešková, Mirka – Ilavská, Jana. (2010). Informačné stratégie v elektronickom prostredí. Bratislava: Univerzita Komenského v Bratislave, 2010. 192 s. ISBN 978-80-223-2848-7.

BAWDEN, David a ROBINSON, Lyn. (2017). Úvod do informační vědy. Prel. M. Lorenz. Brno: Flow 2017. 451s. ISBN 978-80-88123-10-1.

STEINEROVÁ, Jela. (2011). Informačná veda a informačné stratégie. In: Knižničná a informačná veda 23. Zborník FiFUK. Bratislava: UK, 2011, s. 7-20.

Further reading:

BAWDEN, David, Lyn Robinson. (2012). Introduction to Information Science. London: Facet Publishing 2012. 351s. ISBN 978-1-85604-810-1.

BUCKLAND, Michael. (2017). Information and Society. Cambridge, Mass.: Massachusetts Institute of Technology 2017. 217 s.

FLORIDI, Luciano. (2010). Information. A Very Short Introduction. Oxford: Oxford University Press 2010, 130s.

STEINEROVÁ, Jela. (2018). Informačné prostredie a vedecká komunikácia: informačné ekológie. Bratislava: UK 2018.

STEINEROVÁ, Jela. (2005). Informačné správanie: Pohľady informačnej vedy. Bratislava : Centrum VTI SR, 2005. 189 s.

STEINEROVÁ, Jela a kol. (2012). Informačná ekológia akademického informačného prostredia. Bratislava: vyd. UK 2012.

SEDLÁČKOVÁ, Beata. (2015). Úvod do informační vědy. Opava. Slezská univerzita 2015.

CEJPEK, J. (1998). Informace, komunikace a myšlení. Praha : Karolinum, 1998. 179 s.

ČABRUNOVÁ, A. (2002). K formovaniu informačnej vedy ako vedy. In: Knižničná a informačná veda XIX. Bratislava : UK, 2002, s. 73 – 110

NOVÁ paradigma informačnej vedy. (2007). Zborník príspevkov zo seminára. 21.11.2007. Ed. M. Regec, I. Lányiová. KKIV-UKB Bratislava. CD-ROM.

STEINEROVÁ, Jela. (2007). Komunikácia poznatkov v novej paradigme informačnej vedy. In: ITLib. 2007, č. 3, s.5-13.

STEINEROVA, Jela, Grešková, Mirka, Šušol, Jaroslav. (2007). Prieskum relevancie informácií. Výsledky analýz rozhovorov s doktorandmi FiFUK. Bratislava: CVTI SR, 2007. 150s. ISBN 978-80-85165-93-7.

STEINEROVÁ, Jela. (2008). Informačné systémy v novej paradigme vzdelávania a výskumu. In: IT Lib. 2008. Roč. 12, 2008, č. 2, s. 4-12.

STEINEROVÁ, Jela. (2009). Informačná ekológia – využívanie informácií srdcom. In: ITLib. Informačné technológie a knižnice. Roč. 13, 2009, č. 2, s. 4-16. ISSN 1335-793X.

KATUŠČÁK, D. a kol. (1998). Informačná výchova. Bratislava : SPN, 1998. 375 s.

STEINEROVÁ, Jela. (1996). Teória informačného prieskumu. Bratislava: SITK-CVTI, 1996. 262 s.

Languages necessary to complete the course:

Slovak, English

Notes:

Past grade distribution

Total number of evaluated students: 122

A	B	C	D	E	FX
14,75	18,03	23,77	22,95	15,57	4,92

Lecturers: prof. PhDr. Jela Steinerová, PhD.

Last change: 02.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2026/2027	
University: Comenius University Bratislava	
Faculty: Faculty of Arts	
Course ID: FiF.KKIV/A-boIS-406/23	Course title: Social Communication and New Media
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 2 / 1 per level/semester: 28 / 14 Form of the course: on-site learning	
Type, volume, methods and workload of the student - additional information -	
Number of credits: 5	
Recommended semester: 1., 3., 5., 15.	
Educational level: I.	
Prerequisites:	
Course requirements: Grading scale: 0-59%-FX, 60-67%-E, 68-75%-D, 76-83%-C, 84-91%-B, 92-100%-A /// essays: 25 points (approx. 5,000 characters, topics like: The media activities of my parents when they were in their twenties) / class presentations: 25 points class presentations: approx. 15 minutes, (topics like: The remediation processes in the developments of audial media) / in-class activities: 25 points / written test: 25 points Scale of assessment (preliminary/final): Scale of assessment (preliminary/final): 75/25	
Learning outcomes: Learning outcomes: Upon successful completion of this course, students will have got theoretical knowledge acquainted with the topic of the new media and their role in the contemporary information/knowledge society. They understand fundamental concepts, principles and methods of remediation in media history and media developments. Students understand the importance of media, especially the new media for culture and society. They are able to perform research of information and media practice. Students can creatively apply these knowledge schemes in further study and other courses.	
Class syllabus: Class syllabus: 1. Media development and human communication, society, and culture. 2. Remediation in media evolution. Remediation, artifacts and cultural contents. 3. Digital media and new media. 4. Social networks and social media, their social and psychological influences. Ethical aspects. 5. Artificial intelligence – its social and psychological impact. Machine learning and machine generated content. 6. Internet of things. Augmented reality as media communication, its social and psychological impact. Hybrid environments. 7. Simulations. Virtual reality as media communication, its social and psychological impact. Real, Hyperreal and Artificial. 8. Digital technologies in transhumanism and posthumanism. Humanity and Singularity.	
Recommended literature:	

VERDUYN, Philippe, Oscar YBARRA, Maxime RÉSIBOIS, John JONIDES a Ethan KROSS, 2017. Do Social Network Sites Enhance or Undermine Subjective Well-Being? A Critical Review: Do Social Network Sites Enhance or Undermine Subjective Well-Being? Social Issues and Policy Review [online]. 2017, vol. 11, N. 1, p. 274-302. ISSN 17512395. doi:10.1111/sipr.12033 /// WAGNER, Kurt, 2018. This is how Facebook collects data on you even if you don't have an account. Recode [online]. <https://www.recode.net/2018/4/20/17254312/facebook-shadow-profiles-data-collection-non-users-mark-zuckerberg> /// ZAYIM, Muzaffer A., 2014. As Role of Audience or Consumer in the New Media [online]. https://www.academia.edu/9618104/As_Role_of_Audience_or_Consumer_in_the_New_Media /// ORLOWSKI, Jeff, 2020. The Social Dilemma [documentary film/docudrama]. Exposure Labs. <https://www.thesocialdilemma.com/>

Languages necessary to complete the course:

Language: English

Notes:

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Past grade distribution

Total number of evaluated students: 86

A	B	C	D	E	FX
62,79	27,91	6,98	1,16	0,0	1,16

Lecturers: doc. PhDr. Pavel Rankov, PhD., Mgr. Milan Regec, PhD.

Last change: 12.02.2024

Approved by: