Complex exam major subject

Library and Information Science

Syllabus

Handling of metadata and cataloguing: International data exchange formats: MARC, HUNMARC, UNIMARC, Dublin Core etc. The semantic web and its opportunities in the field of cataloguing (MARC XML DTD and Schema). Cataloguing systems of a new generation: RDA, BIBFRAME.

Digital libraries and repositories: Channels of scholarly communication: Open Access, Open Data. The conception of semantic web. Digital libraries and institutional repositories. General terms of contracts of intellectual property for fair use. Important questions of digital right management. Questions of public copyright and open access.

Data and content management on the web: Effective, attractive, creative and accessible publishing of digital contents. Web page design and development. Basics of content management systems (CMS), with special respect to their possible use in library practice. The process of abstracting, types and functions of abstracts. Implementation of various library and information science technologies used for subject description in web pages and content management systems.

The narratives of digital reading, electronic literature: Phases of interpretative reading comprehension, the Rabinowitz stages. Intersections of information acquisition and reading. Ways in which the web impacts reading habits. Electronic literature and new trends of reading. The interface of 21st century identity scenarios and reading. The phenomenon of hyperattention and the way it influences meaningful integrative reading.

(for further details, see the Appendix)

Bibliography

- 1. Digital Libraries. Methods and Applications. Kuo Hung Huang (ed.). Rijeka: InTechWeb.org., 2011. http://www.intechopen.com/books/digital-libraries-methods-and-applications (2018-11-10)
- 2. Handbook of Semantic Web Technologies. John Domingue, Dieter Fensel, James A. Hendler (eds). Berlin [u.a.]: Springer, 2011- . 1-2. vol.
- 3. IFLA Working Group on Functional Requirements and Numbering of Authority Records (FRANAR): Functional Requirements for Authority Data. A Conceptual Model. Final Report December 2008. (As amended and corrected through July 2013.) http://www.ifla.org/files/assets/cataloguing/frad/frad_2013.pdf (2018-11-10)
- 4. IFLA Working Group on Guidelines for National Bibliographies: National Bibliographies in the Digital Age: Guidance and New Directions. KG Saur Verlag, 2009. http://www.ifla.org/node/7858 (2018-11-10)
- 5. Kamill, Michael L.; Pearson, David P.; Birr Moje, Elizabeth [et al.]: Handbook of Reading Research I-IV. New York: Routledge, 2011.
- 6. Koltay Tibor: Abstracts and Abstracting. A Genre and Set of Skills for the Twenty-first Century. Chandos Publishing, 2010.
- 7. Manguel, Alberto: A History of Reading. New York: Penguin, 2014.
- 8. Publishing and the law: Current legal issues. Strauch, A. Bruce (ed.). New York London: Routledge, 2013.
- 9. Rowley, J.; Hartle, R.: Organizing Knowledge. An Introduction to Managing Access to Information. 4th ed. Aldershot: Ashgate. 2008.
- 10. Witten, I. H.; Bainbridge, D.; Nichols, D. M.: How to Build a Digital

Library. Elsevier, 2010.

11. W3C Data Activity – Building the Web of Data. http://www.w3-.org/2013/data/ (2018-11-10)

12. W3Schools Online Web Tutorials. https://www.w3schools.com/(2018-11-10)

Compulsory subjects for this

major subject

Library management.

Recommended subjects for this

ets for this Metadata of digital collections.

major subject The narratives of digital reading, electronic literature.

Questions of knowledge.

Appendix.

Detailed description of the proposed items of the syllabus.

Handling of metadata and cataloguing

International data exchange formats: MARC, HUNMARC, UNIMARC, Dublin Core etc. Use of metadata in search services on the basis of Open Access Intiative protocol. The semantic web and its opportunities in the field of cataloguing (MARC XML DTD and Schema). Cataloguing systems of a new generation: RDA, BIBFRAME.

Bibliography

Davies, John; Fensel, Dieter; van Harmelen, Frank: Towards the Semantic Web: Ontology-driven Knowledge Management. John Wiley & Sons, 2004.

DCMI Home: Dublin Core Metadata Initiative (DCMI).

http://dublincore.org/ (2018-11-10)

Handbook of Semantic Web Technologies. John Domingue, Dieter Fensel, James A. Hendler (eds). Berlin [u.a.]: Springer, 2011- . 1-2. vol.

IFLA Study Group on the Functional Requirements for Bibliographic Records (FRBR): Functional Requirements for Bibliographic Records. Munich: K.G. Saur Verlag, 1998.

Final Report September 1997. Current text as amended and corrected through February 2009.

http://www.ifla.org/files/assets/cataloguing/frbr/frbr_2008.pdf (2018-11-10)

http://archive.ifla.org/VII/s13/frbr/frbr_current_toc.htm (2018-11-10)

IFLA Working Group on Functional Requirements and Numbering of Authority Records (FRANAR): Functional Requirements for Authority Data. A Conceptual Model. Final Report December 2008. (As amended and corrected through July 2013.)

http://www.ifla.org/files/assets/cataloguing/frad/frad_2013.pdf (2018-11-10)

IFLA Working Group on Guidelines for National Bibliographies: National Bibliographies in the Digital Age: Guidance and New Directions. (IFLA Series on Bibliographic Control Vol. 39. edited by Maja Zumer). KG Saur Verlag, 2009.

http://www.ifla.org/node/7858 (2018-11-10)

Library of Congress. Resource Description and Access (RDA)

https://www.loc.gov/aba/rda/ (2018-11-08)

MARC XML. MARC 21 XML Schema.

http://www.loc.gov/standards/marcxml/ (2018-11-10)

Open Archives Initiative.

https://www.openarchives.org/ (2018-11-10)

Peters, Bas: Crosswalking. Processing MARC in XML environments with MARC4J. 1st ed. 2007.

Semantic Web – W3C.

http://www.w3.org/standards/semanticweb/ (2018-11-10)

W3C Data Activity – Building the Web of Data.

http://www.w3.org/2013/data/ (2018-11-10)

Digital libraries and repositories

Channels of scholarly communication: Open Access, Open Data. Measuring research performance. Structured data forms, data curation, questions of interoperability. The conception of semantic web. Digital libraries and institutional repositories. General terms of contracts of intellectual property for fair use. Important questions of digital right management. Questions of public copyright and open access.

Bibliography

Digital libraries and the semantic web: context, applications and research. Library Review (special issue) Vol. 57 (2008) No. 3.

Digital Libraries. Methods and Applications. Kuo Hung Huang (ed.). Rijeka: InTechWeb.org., 2011. http://www.intechopen.com/books/digital-libraries-methods-and-applications (2018-11-10)

Gleason, Paul: Copyright and electronic publishing: Background and recent developments. The Acquisitions Librarians Vol. 13. (2001) No. 26. 5-26.

Jones, Maggie; Beagrie, Neil: Preservation management of digital materials: A handbook. The British Library, 2002.

Jones, Richard; Andrew, Theo; MacColl, John: The Institutional Repository. Oxford: Chandos Publishing, 2006.

Oppenheim, Charles: Some legal issues for electronic information. International Forum on Information and Documentation Vol. 21. (1996) No. 1. 10-16.

Publishing and the law: Current legal issues. Strauch, A. Bruce (ed.). New York - London: Routledge, 2013.

Schmidt, Birgit; Kuchma, Irina: Implementing Open Access Mandates in Europe. Universitätsverlag Göttingen, 2012.

Yiotis, Kristin: The Open Access Initiative: A new paradigm for scholarly communications, Information Technology and Libraries Vol. 24. (2005) No. 4. 157–162.

Data and content management on the web

Management and delivery of digital contents in libraries. Typical roles of the digital librarian: editing a web site, running content management systems, and constructing, continual updating and migrating digital content. Effective, attractive, creative and accessible publishing of digital contents, enhancing user experience. Web page design and development. Basics of content management systems (CMS), with special respect to their possible use in library practice. Web 2.0 applications in libraries. Knowledge construction, distribution and sharing in social and community networks. Genres of subject description (abstract, digest, annotation, state-of-the-art report etc.) and their most significant characteristics. The process of abstracting, types and functions of abstracts. Implementation of various library and information science technologies used for subject description (such as metadata, thesauri, ontologies, concept and/or topic maps etc.) in a web-based environment, especially in web pages and content management systems. The presentation and retrieval of verbal and multimedia content in the three-dimensional space.

Bibliography

Adam, D. Scott: WordPress for Education. Create interactive and engaging e-learning websites with WordPress. Packt, 2012.

Gruber, T.: Toward principles for the design of ontologies used for knowledge sharing. International Journal of Human–Computer Studies Vol. 43. (1995) No. 5-6. 907-928.

Hortin, Anthony: Easy WP Guide WordPress Manual. Maddison Designs, 2012.

HTML. The Language for Building Web Pages. http://www.w3schools.com/ (2018-11-10)

Koltay Tibor: Abstracts and Abstracting. A Genre and Set of Skills for the Twenty-first Century. Chandos Publishing, 2010.

Lambe, P.: Organising Knowledge: Taxonomies, Knowledge and Organisational Effectiveness. Oxford, England: Chandos Publishing, 2007.

Ontology for Knowledge Organization. Smiraglia, Richard P., Lee, Hur-Li (eds). Würzburg: Ergon Verl., 2015.

Organizing Business Knowledge: The MIT Process Handbook. Malone, Thomas W.; Crowston, Kevin; Herman, George A. (eds). The MIT Press, 2003.

Pepper, Steve: The TAO of Topic Maps. Finding the Way in the Age of Infoglut. http://www.ontopia.net/topicmaps/materials/tao.html (2014-12-10)

Protege Ontology Library.

http://protegewiki.stanford.edu/wiki/Protege_Ontology_Library (2014-12-13)

Rowley, J.; Hartle, R.: Organizing Knowledge. An Introduction to Managing Access to Information. 4th ed. Aldershot: Ashgate. 2008.

Tomasi, Chuck; Steppe, Kreg: Sams Teach Yourself WordPress 3 in 10 minutes. Pearson 2011.

Williams, Brad; Damstra, David; Stern, Hal: Professional WordPress Design and Development. John Wiley & Sons, 2013.

Witten, I. H.; Bainbridge, D.; Nichols, D. M.: How to Build a Digital Library. Elsevier, 2010.

WordPress; Blog Tool, Publishing Platform, and CMS. http://wordpress.org/ (2014-03-07)

The narratives of digital reading, electronic literature

Narratives of reading in the Neumann galaxy. Phases of interpretative reading comprehension, the Rabinowitz stages. Intersections of information acquisition and reading. Ways in which the web impacts reading habits. Electronic literature and new trends of reading. The possibilities of making reading popular. The generational paradigm in the space of digital reading, or, is this really "the dumbest generation", and does the digital age really stupify young digital natives? The interface of 21st century identity scenarios and reading. The cognitive aspect. The phenomenon of hyperattention and the way it influences meaningful integrative reading. The alternating phases of hyper- and deep attention.

Bibliography

Bauerlein, Mark: The Dumbest Generation: How the Digital Age Stupifies Young Americans and Jeopardizes Our Future. New York: Jeremy P. Tarcher/Penguin, 2008.

Hayles, Katherine N.: How We Think: Digital Media and Contemporary Technogenesis. Chicago - London: The University of Chicago Press, 2012.

Hayles, Katherine N.: My mother Was a Computer: Digital Subjects and Literary Texts. Chicago: The University of Chicago Press, 2005.

Kamill, Michael L.; Pearson, David P.; Birr Moje, Elizabeth [et al.]: Handbook of Reading Research I-IV. New York: Routledge, 2011.

Manguel, Alberto: A History of Reading. New York: Penguin, 2014.

Page, Ruth; Thomas, Bronwen: New Narratives: Stories and Storytelling in the Digital Age. Lincoln and London: University of Nebrasca Press, 2011.