UNIVERSITY OF ŽILINA
Faculty of Humanities
Department of Mediamatics and Cultural Heritage

COURSES IN ENGLISH PROVIDED BY DEPARTMENT OF MEDIAMATICS AND CULTURAL HERITAGE

CONTENT OF STUDY

BA STUDY PROGRAMME

8KB037 **Soundart**

Sound, art, music. Basics of sound recording, sound editing, field recording, soundscapes, sound sculptures, sound installations, converting, distributing of sound, streaming, archiving. Introduction into the electroacoustic, musique concrète vs. musique electronique, noise music, sound collages, plunderphonics and radio art. Working with folleys. Introduction into sampling, looping, use of different creative software for realtime stage performing. Students work with ZOOM H4n and H2n handy mobile recorders, RØDE NTG3 shotgun microphone. Maximal number of students for practical exercises is 4. *http://stream.filharmonia.sk/o-nas/vzdelavani/?lang=EN*

8KB039 **Documentation of Cultural Heritage 2**

The course is intended to explain the resources/objects documentation process performed in the memory institutions – mainly in libraries, museums, art galleries and archives – as well as, to define common and differentiating aspects of the documentation with regard to possible convergence of metadata creation and use. It covers the topics dealing with the description and metadata (descriptive, authorities) creation in harmonization with current cataloguing practice. Functional Requirements for Bibliographic Records (FRBR), Resource Description and Access (RDA), Functional Requirements for Authority Data (FRAD), Cataloging Cultural Objects (CCO), and Describing Archives: a content standard (DACS) form a platform for the course and trainings.

8KB042 **Logic (Bachelor degree)**

- The discipline of logic.
- Arguments (premises, conclusion).
- Inference.
- Valid argument.
- Deductively valid argument.
- Propositional logic (PL). Semantic exposition.
- Transforming natural language to the PL language.
- Tautology. Satisfiable formulas, contradiction, model.
- The most important tautologies.
- Valid argument schemes. Modus Ponens or direct reasoning. Modus Tollens or indirect reasoning.
- Categorial syllogisms (mood, figure). Diagramming syllogisms.

8KB019 **The Theory of communication 2**

In this course are explained options of information and communication technologies (ICT) from the following points of view:
- e-communication as a specific case of communication
- the impact of ICT on the nature of the communication
- Shannon's information theory, coding
- man-man communication with the use of ICT (transmission media, networks, security, privacy, digital signature)
- the ISO-OSI model
- human-machine communication (interface, codes, security of information)
- machine-machine communication, communication protocols
- communication in the virtual space
- hypertext as a form of communication

MA. STUDY PROGRAMME

8KM008 **The Cultural Heritage**

"*The Culture Heritage*" is an introduction to the complex topic of the cultural heritage preservation, conservation and documentation. It is focused particularly to the theoretical and legislative aspects of the cultural heritage on the Slovak as well as international level. Cultural Heritage creates a wide concept of various sectors and it is an expression of the ways of living developed by a community and passed on from generation to generation, including architecture, places and sites, arts and craft, customs, traditions, practices, language and folklore, and from that point of view it is often expressed as either Intangible or Tangible one. The basic information will be given on the Convention concerning the Protection of World Cultural and Natural Heritage that was adopted by the General Conference of UNESCO in 1972.

Typography and editing 1

Typography is a significant part of visual communication and visual culture. The aim of the course is to present typographic terms, procedures and methods and to develop students´ aesthetic and practical skills. We also want to build their ability to consider and assess the (professional) work of a typographer and editor through the knowledge of theoretical principles and psychological aspects of typography and design. Students will learn modern reprographic systems and print designs. In their projects they will put into practice their concepts and apply their particular aesthetics. The course includes a field trip, according to the current offer of the important centres in Slovakia or abroad.

8KM015 **Typography and editing I.**

Short history of typography development, basic typography terms and practices, theoretical principles and psychological aspects of typography and design, experimental typography. Semester project.

8KM035 **Typography and editing II.**

Ways and possibilities of publications production (electronic editing and production system, basic printing techniques), getting together an adequately demanding author project, applying the basic knowledge of typography, author concept and specific aesthetics.

8KM011 **New Media 1**

Discuss the concept of the new media: to analyse the impact of the differences between traditional media and new media, to understand the technological and philosophical principles of virtual communication and the role of social networks supported by information technologies. The course is focused on the theory of new media. The brief content of the course is:
- the concept of "new media"
- the phenomenon of the network
- the phenomenon of digital information
- the phenomenon of hypertext and hypermedia
- theoretical principles of new media,
- characteristics of the new media,
- new media and individual
- new media, and society
- new media and art
- questions of censorship, privacy policy

8KM014 **Data mining**

Introduce students to current knowledge of the data mining issue. In the process of knowledge discovery in databases the course will focus on the various steps in the process (obtaining relevant data, data mining, data preprocessing, founding patterns, evaluation of found patterns, etc.) as well as to efforts to standardize this process. Students will be familiar with the current practical applications typical for data mining and following basic concepts:
- data objects,
- measurement of variability,
- data visualisation
- data transformation and discretisation
- data normalisation and generalisation,
- association rules,
- decision trees,
- information gain,

- Bayes classifier,
- cluster analyses,
- Identifying outliers.

8KM005 **Logic (Master degree)**

- Natural deduction.
- Rules of Inference.
- Arguments and Proofs.
- Resolution method. Proof by resolution.
- 1st-order Predicate Logic (FOL).
- Formal language of FOL (first-order predicate logic). Semantic exposition.
- Transforming natural language into the language of FOL.
- General resolution method.
- Syllogisms in ordinary language. Establishing validity.
- Kinds of definition.

8KM041 **Videostreaming**

Videostreaming and the technology behind – digital audio and video recording of the orchestral instruments, chamber orchestra, the full symphony orchestra, solo concertos with orchestra, oratorios (soli, choir and orchestra). The lectures and exercises are held in the Slovak Philharmonic, Bratislava. Student learns basics of orchestral setup, setting up microphones, remote controlling of 5 robotic cameras (Full HD), basics of video editing, finalizing the recording, converting and realtime streaming, streaming on demand etc. Student participates at the orchestral rehearsals and practices with the cameras in the real time with the orchestra on stage. The schedule of the lectures and practices depends on the schedule of the Slovak Philharmonic Orchestra and are to be discussed individually. The lecture and practices start usually at 9 a.m. end at 3 p. m. and maximum number of students is 4 per session. More information: http://stream.filharmonia.sk/o-nas/vzdelavanie/?lang=EN