UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Digital Futures for Intangible Heritage

2223-108R-M3

Title

Digital Perspectives for Intangible Heritage

Teacher(s)

Francesca Gasparini
Marco Cremaschi

Language

Italian

Short description

The course includes 4 blocks of lessons with themes related to the digitization of intangible cultural heritage, the management of saved information, through appropriate database models, and attention to the dissemination of the material through sites that comply with the main user interface (UI) indications and designed taking into account the user experience (UX) with particular attention to the theme of accessibility. The course will not only provide textual references and theoretical material, but it will indicate tools that can be easily used and available for free to concretely experience the topics proposed in the lessons.
Direct interaction is envisaged with the bodies involved in the doctorate in order to present concrete cases to which

the theoretical lessons refer.

Module 1 (4 hours): DIGITAL SIGNALS

- Process of converting signals from analog to digital, with special attention a images, audio and video
- Evaluation of the quality of digital signals with reference to their memory occupation
- Outline of signal compression techniques
- Main formats for saving and managing signals

Module 2 (4 hours): DATA BASES

- Conceptual modeling
- Logical modeling
- Query languages
- DBMS (relational and non-relational)

Module 3 (4 hours): WEB INTERFACE DESIGN

- Introduction to the design of complex digital ecosystems
- Definition of a concept
- Gestalt theory
- Grid and responsive space
- Digital typography
- Designing with color
- Language of images
- Interaction, usability and user interface
- User test

Module 4 (4 hours): WEB ACCESSIBILITY

- Introduction to inclusive design
- Importance of differences in disabilities
- Main regulations on digital accessibility
- Approaches to accessible design
- Guidelines for the accessibility of web content

CFU / Hours

2 CFU / 16 Hours

Teaching period

Monday 12 December
Tuesday 13 December

Sustainable Development Goals

QUALITY EDUCATION | INDUSTRY, INNOVATION AND INFRASTRUCTURE