UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Futuri digitali per il patrimonio immateriale - 8 ore

2425-108R-04

Title

Digital Perspectives for Intangible Heritage

Teacher(s)

Francesca Gasparini
Marco Cremaschi

Language

Italian and English

Short description

The course includes 4 blocks of lessons with themes related to the digitization of intangible cultural heritage, the management of saved information, to affective computing and sensing technology, 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.

Module 1 (2 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 (2 hours): AFFECTIVE COMPUTING

- The affective computing cycle
- signals in human machine interaction
- emotions and stimuli
- Brin computer interface

Module 3 (2 hours): WEB INTERFACE DESIGN

- Introduction to the design of complex digital ecosystems
- Definition of a concept
- Digital typography
- Designing with color
- Interaction, usability and user interface
- User test

Module 4 (2 hours): WEB ACCESSIBILITY

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

The entire didactic method of delivery is organised with face-to-face lectures (Didactics Erogative).
Dialogue lectures (including exercises and small laboratory activities) will be used to stimulate a critical approach to the discipline and reflection on the implications of such knowledge in the relationship between digital aspects and cultural heritage.

Evaluation:
Open, written questions on the topics covered in connection with the student's doctoral project

CFU / Hours

1 CFU / 8 Hours

Teaching period

from November 2024 to June 2025

Sustainable Development Goals

QUALITY EDUCATION | INDUSTRY, INNOVATION AND INFRASTRUCTURE