DEGREE PROGRAM IN TECNOLOGIE E LINGUAGGI DELLA COMUNICAZIONE - TECHNOLOGIES AND LANGUAGES OF COMMUNICATIONS (LM-59) CURRICULUM IN INTERACTION DESIGN

A.Y. 2023/2024

Course Digital Transformation
SDS SPS/08
ETCS 6
Course modules (if any) 5 ETCS Prof. Antonio Opromolla,
1 ETCS Prof. Marco Accordi Rickards

Year I year
Semester I semester
Professor(s) Antonio Opromolla, Marco Accordi Rickards
e-mail a.opromolla@unilink.it, marco.accordirickards@unilink.it
Office hour At the end of the lesson.

LEARNING OUTCOMES

The aim of the course is to achieve the following learning outcomes.
1. **KNOWLEDGE AND UNDERSTANDING SKILLS**: Acquire fundamental notions on digital transformation processes and its impact on society.
2. **APPLIED KNOWLEDGE AND UNDERSTANDING SKILLS**: Acquire design skills of digital transformation solutions in the urban environment.
3. **AUTONOMY JUDGMENT:** Knowing how to critically analyze specific urban contexts and define the most suitable strategies for their transformation.
4. **COMMUNICATION SKILLS:** Acquire mastery of the terminology and digital transformation tools, explain and present the results of the analysis adequately and creatively.
5. **LEARNING ABILITY:** Acquire mastery of the processes underlying the digital transformation and bibliographic references useful for the project conducted.

DETAILED PROGRAM

Lesson 1: Course Presentation + Introduction to Digital Transformation
Lesson 2: Entering in the Digitalized Society
Lesson 3: How Digital Transformation is Changing Different Societal Fields
Lesson 4: Digital Transformation in Public Services
Lesson 5: The role of Design in Digital Transformation
Lesson 6: Technologies for Digital Transformation
Lesson 7: The Economic Side of Digital Transformation
Lesson 8: Organisation and Processes under Digital Transformation
Lesson 9: Test
Lesson 10: Work on the PW

RECOMMENDED PRE-REQUISITES (IF ANY)

None

TEACHING METHODOLOGIES

The educational activities will be carried out through lectures and practical learning.

FINAL EXAMINATION METHODOLOGIES

For Attending Students:

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•First part: Test on the slides of the lessons
•Second part: Discussion of the project work. It consists in a thesis on a topic that will be discussed during the lessons

For non-attending students (oral exam):
•Slides of the lessons
•A book to be chosen from:
 - Antonio Opromolla, Human-centered cities. Significati, sfide e relazioni della città del futuro, 2021 (Italian)
 - Bas Boorsma, A New Digital Deal, 2020 (English and Italian)

EVALUATION CRITERIA

At the end of the course, the following skills of the student will be evaluated:

1. **KNOWLEDGE AND UNDERSTANDING SKILLS**: the final exam will assess the student's acquisition of the basic notions relating to the topics listed in the detailed teaching program.
2. **APPLIED KNOWLEDGE AND UNDERSTANDING SKILLS**: the final exam will assess the ability to design solutions and processes for the digital transformation of cities.
3. **AUTONOMY JUDGMENT:** the final exam will assess the ability to discern the most suitable texts relating to the subject matter and the ability to do so independently.
4. **COMMUNICATION SKILLS:** the final exam will assess the ability to adequately and creatively present the result of the analysis achieved.
5. **LEARNING ABILITY:** the final exam will assess the mastery in the search for themes and texts and bibliographic references useful for the project conducted.

FINAL GRADING INFORMATION AND CRITERIA

The achievement of an organic vision of the issues addressed, the possession of a specific language, the knowledge of the complex elements underlying the analysis of different types of texts and the ability to apply digital solutions to a specific social and cultural context will be evaluated with marks of excellence. A manual knowledge of the subject, skills of synthesis and analysis that are not articulated or a correct but not always appropriate language, such as a scholastic domain of the discipline, lead to discrete evaluations. Training gaps or inappropriate language, such as a lack of knowledge of the basic concepts of the course, make it possible to obtain grades on the threshold of passing. Training gaps, inappropriate language, lack of orientation within the bibliography and inability to analyze are negatively evaluated.

The final score is expressed in thirtieth grade, with the possibility of honors. The final score reflects the student's preparation as follows:

Score	Description
< 18 not sufficient	Fragmentary and superficial knowledge of contents, errors in applying concepts, insufficient exposure.

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18-20	Sufficient but still general knowledge of contents, elementary exposure, uncertainties in the application of theoretical notions.
21-23	Appropriate, but not deep, knowledge of contents, good ability in applying theoretical notions as well as presenting them in a simple way.
24-25	Appropriate and vast knowledge of contents, discrete ability in applying them, good ability in presenting notions in a comprehensive way.
26-27	Precise and comprehensive knowledge of the topics, good ability in applying the acquired knowledge, good analytical skills, clear and correct exposure.
28-29	Extensive, comprehensive and deep knowledge of contents, good applicative skills, good ability of analysis and synthesis, confident and correct exposure.
30 30 with honors	Very broad, comprehensive and deep knowledge of the contents, well-established ability to apply the acquired notions, excellent ability of analysis, synthesis as well as ability to create interdisciplinary links, fluency of exposure.

COURSE MATERIAL

- Didactic material provided during the course
- Antonio Opromolla, Human-centered cities. Significati, sfide e relazioni della città del futuro, 2021 (Italian)

Or

- Bas Boorsma, A New Digital Deal, 2020 (available in English and Italian)

OTHER ADVICES

Students belonging to the 'part-time/workers' category or being unable to take part in the lessons are suggested to directly contact the professor in order to analyze, together, specific training needs.