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## Course Syllabus

### Revitalisation of Public Spaces in Historic Cities Based on Sustainable Development Principles

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#### 1. Course Information

- **Title:** Revitalization of Public Spaces in Historic Cities Based on Sustainable Development Principles
- **Code:** ARCH-MOOC
- **Academic Year:** 2025/2026
- **Degree:** Micro-credential, Training Course for bachelor's in Architecture Students and Graduates
- **Branch:** Engineering and Architecture
- **Module:** MOOC on Revitalization of Public Spaces in Historic Cities Based on Sustainable Development Principles
- **Subject:** Revitalization of Public Spaces in Historic Cities
- **Year:** Post-Grade
- **Semester:** 1<sup>st</sup> or 2<sup>nd</sup>
- **Type:** Elective
- **ECTS Credits:** 6
- **Language:** English, Italian, Polish, Spanish
- **Mode:** Mixed
  - Face-to-face and online for test version
  - Online self-paced for MOOC version

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## 2. Faculty

- **Lead Professor:** Professor Bogusław Szmygin
  - **Email:** xx
  - **Office Hours:**

## 3. Prerequisites and/or Recommendations

Studies on Architecture, heritage protection and related disciplines.

## 4. Brief Description of Contents

- Impact of climate change on historic public spaces.
- Introduction and use of green and blue infrastructures.
- Principles of sustainable and accessible design.
- Use of advanced digital tools for design projects.

## 5. Competencies

### General Competencies

- **GC01:** Ability to analyse and synthesise.
- **GC02:** Organization and planning skills.
- **GC03:** Oral and written communication in the native language.
- **GC04:** Knowledge of a foreign language.
- **GC05:** Computer skills related to the field of study.
- **GC06:** Information management skills.
- **GC07:** Problem-solving skills.
- **GC08:** Decision-making skills.
- **GC09:** Teamwork skills.
- **GC10:** Interdisciplinary teamwork.
- **GC11:** Work in an international context.
- **GC12:** Interpersonal skills.
- **GC13:** Recognition of diversity and multiculturalism.
- **GC14:** Critical thinking.
- **GC15:** Ethical commitment.
- **GC16:** Autonomous learning.
- **GC17:** Adaptation to new situations.
- **GC18:** Creativity.
- **GC19:** Leadership.
- **GC20:** Knowledge of other cultures and customs.

### Specific Competencies

- **SC01:** Ability to develop functional programs for sustainable urban spaces.
- **SC02:** Adequate knowledge of general theories of form, composition, and urban and architectural types.

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- **SC03:** Ability to conceive, practice, and develop urban projects and urban planning.
  - **SC04:** Ability to intervene in and conserve, restore, and rehabilitate built heritage.
  - **SC05:** Ability to design and execute urban layouts and projects for urbanization, gardening, and landscape.
  - **SC06:** Adequate knowledge of ecology, sustainability, and principles of energy and environmental resource conservation.

## **6. Learning Outcomes (Objectives)**

- Understand the impact of climate change on historic public spaces.
- Develop sustainable solutions through the implementation of green and blue infrastructures.
- Use advanced digital tools for the design and presentation of projects.
- Create and present a short video on a design project focused on climate adaptation of a historic public space.
- Evaluate case studies and apply best practices in design projects.

## **7. Theoretical and Practical Content Program**

### **Theoretical**

- 1. Functional Organization of Public Spaces in Historic Cities**
  - Impact of climate change on public spaces.
  - Climate environment analysis techniques.
  - Case studies and good practices from European cities.
- 2. Introduction of Green and Blue Infrastructures**
  - Nature-based solutions (NBS).
  - Implementation of green and blue infrastructures in urban environments.
  - Design of sustainable urban landscapes.
- 3. Sustainable Equipment of Public Spaces**
  - Use of sustainable and biodegradable materials
  - Design of sustainable equipment solutions.
  - Principles of sustainable development applied to public spaces.
  - Inclusive and accessible design.

### **Practical**

- 1. Group Projects**
  - Design and development of public space revitalisation projects.
  - Implementation of green and blue infrastructures in design projects.
  - Group project presentations and evaluations.
- 2. Workshops**
  - Practical workshops on urban design and planning.
  - Visits to historical sites to analyse real cases.
  - Practical evaluations and group discussions on projects.
- 3. Documentary Video**
  - Creation of a short video documenting the design project.
  - Editing and presentation of the final video.

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## 8. Teaching Methodology

- **TM01:** Lecture/expository lesson.
- **TM02:** Discussion and debate sessions.
- **TM03:** Problem-solving and case study analysis.
- **TM07:** Seminars.
- **TM08:** Simulation exercises.
- **TM09:** Analysis of sources and documents.
- **TM10:** Group work.
- **TM11:** Individual work.

## 9. Assessment (Evaluation Instruments, Evaluation Criteria and Percentage of the Final Grade)

### Regular Assessment on Face-to-face and online version of the CourseRegular Assessment

- **EI-I1: Written Tests:** 20%
  - Essay, short answer, and objective exams.
- **EI-I2: Oral Tests:** 20%
  - Presentation of individual or group work, interviews, and debates.
- **EI-I3: Design Projects:** 40%
  - Design proposals, digital models, and oral presentations.
- **EI-I4: Workshop Participation:** 20%
  - Active participation and teamwork.

### Evaluation Criteria:

- Mastery of theoretical and practical contents.
- Quality and clarity in the presentation of work.
- Level of involvement and participation in activities and debates.
- Minimum attendance of 80% to classes and workshops.

### Special Assessment on Online self-paced for MOOC version

- **SA-I1: Written Tests:** 40%
  - Multiple-choice test.
- **SA-I2: Design Projects, collaborative assessment:** 30%
  - Design proposals, digital models, and oral presentations.
- **SA-I3: Workshop Participation, collaborative assessment:** 30%
  - Active participation and teamwork.

### Evaluation Criteria:

- Mastery of theoretical and practical contents.
- Quality and clarity in the presentation of work.
- Level of involvement and participation in activities and debates.

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This syllabus provides a clear and detailed structure of the course, ensuring that students understand the objectives, contents, and methodologies, promoting a comprehensive and enriching educational experience.