COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Environment		
ACADEMIC UNIT	Department of Environment		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	**330Y**	**SEMESTER**	**4**
COURSE TITLE	Spatial Environmental Planning		

INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**CREDITS**
Lectures	2	
Laboratory Excercises	2	
Total credits		5

COURSE TYPE	General background
PREREQUISITE COURSES:	Economy and Environment II
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek
IS THE COURSE OFFERED TO ERASMUS STUDENTS	
COURSE WEBSITE (URL)	https://www.env.aegean.gr/studies/undergraduate-degree/curriculum/spatial-environmental-planning-i/

(2) LEARNING OUTCOMES

Learning outcomes
Upon successful completion of the course, students will: • Understand the fundamental concept of Spatial Environmental Planning • Comprehend the relationship between **development and the environment** by analyzing the mechanisms of the development process that create environmental pressures • Become familiar with the concept of **sustainable regional development** and its strategies • Gain experience in using analytical frameworks and **performance indicators**, applying tools to measure impacts on a region's economic, social, and environmental systems. • Apply the principles and **processes of spatial planning**, with an emphasis on creating and evaluating scenarios that promote sustainable development. • Develop skills in making well-informed decisions based on sustainability and resilience principles.
General Competences
Upon successful completion of the course, students will have acquired the following general competencies: • Searching, analyzing, and synthesizing data and information, including the use of appropriate technologies

- Decision-making
- Independent work
- Respect for the natural and built environment
- Demonstration of social, professional, and ethical responsibility and sensitivity
- Promotion of free, creative, and inductive thinking

(3) SYLLABUS

The course examines the relationship between development and the environment, focusing on sustainable spatial development and how socio-economic activities impact the environment. It explores methods for assessing the developmental status of a region and achieving sustainability.

The course analyzes the theoretical framework and fundamental principles of Spatial Environmental Planning, emphasizing the interconnection between urban and rural spaces, sustainable management of natural resources, landscape protection, land use hierarchy, transportation systems, and the integration of environmental standards into planning. Students study the mechanisms that generate environmental pressures, urbanization processes, and urban sprawl, as well as their impact on environmental conservation. They also practice using sustainability indicators to evaluate spatial and developmental interventions.

The course focuses on the following key topics:

- **The relationship between development and the environment**, with an emphasis on the mechanisms that create environmental pressures and the understanding and measurement of their impacts.
- **The concept of strategic regional development**, analyzing the interdependencies between socio-economic well-being and environmental conservation, as well as the evolution of the concept of sustainable development.
- **The use of analytical frameworks and indicators to assess** the development of a region based on the principles of sustainable development, as well as the integration of environmental standards into planning.
- **Contemporary strategies for sustainable spatial planning**, such as urban smartness, environmental justice, and participatory planning, to promote environmentally responsible and sustainable interventions.

Each session consists of two parts: (A) Lecture and (B) Laboratory exercise. The course content includes the following lectures:

- Introduction to Sustainability and Spatial Planning
- From settlement organizations to cross-border spatial units
- Transformations of the spatial landscape: Urbanization and Urban Sprawl
- Land use and transport systems in spatial planning
- Economic system and spatial organization
- The system of environmental pressures and sustainability indicators
- Analysis and evaluation tools in spatial planning
- Regional problems and spatial inequalities
- Sustainable Regional Development: Strategy, Indicators, and Models
- Legal framework and Integrated Spatial Investments
- Environmental Justice: Governance and Participatory Planning
- Smart cities and the environment: Contemporary issues in Spatial Planning

In the laboratory sessions, Geographic Information Systems (GIS) tools are used for an in-depth analysis of a selected study area. Students apply these technologies for mapping and visualizing data, focusing on the current spatial, environmental and economic condition of the study area. Through practical

applications in the study area, students develop and assess interventions that contribute to sustainable development, environmental management, and social cohesion.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY.	Face- to-face
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	**Use of simulation model in the computer lab**
TEACHING METHODS	

Activity	*Semester workload*
Lectures	26
Laboratory practice	26
Exercises	16
Study	64
Course total	***132***

STUDENT PERFORMANCE EVALUATION	The course is conducted in Greek. However, for exchange students, recommended readings are available in English, and examinations can be taken in English. The final grade is determined based on the evaluation of student performance in each course component: • Final exam (50%) • Laboratory exercises (40%) • Theoretical assignments (10%) To successfully complete the course, the following criteria must be met for each component: • Passing grade in the exam ≥ 5

(5) ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

- Hall, P., & Tewdwr-Jones, M. (2010). Urban and Regional Planning. Routledge.
- Haughton, G., & Counsell, D. (2004). Regions, Spatial Strategies and Sustainable Development. Routledge.
- Wheeler, S. M., & Beatley, T. (2014). Sustainable Urban Development Reader. Routledge.

- Related academic journals:

- Journal of Urban planning and Development
- Journal of Sustainable Cities and Society
- Journal of Sustainable Development
- European Journal of Spatial Development