

## COURSE OUTLINE

### (1) General

<b>School:</b>	Social Sciences		
<b>Academic Unit:</b>	Geography		
<b>Level of studies</b>	Undergraduate		
<b>Course Code:</b>	GEO 446	<b>Semester:</b>	D
<b>Course Title:</b>	Infrastructures and spatial development		
<b>Independent Teaching Activities</b>	<b>Weekly Teaching Hours</b>	<b>Credits</b>	
Lecture		3	
		<b>Course total</b>	5
<b>Course Type:</b>	Required Elective		
<b>Prerequisite Courses:</b>	None		
<b>Language of Instruction and Examinations</b>	Greek		
<b>Is the course offered to Erasmus students:</b>	No		
<b>Course Website (Url):</b>	<a href="https://geography.aegean.gr/pps/index_en.php?content=0&amp;lesson=446">https://geography.aegean.gr/pps/index_en.php?content=0&amp;lesson=446</a>		

### (2) Learning Outcomes

#### Learning Outcomes

Students after attending lectures and completing projects should be able to:

- Acquire knowledge on the different infrastructures and their roles in spatial development
- Comprehend the role of infrastructures in spatial development theories
- Become acquainted with the characteristics of development of different types of infrastructure networks
- Plan and complete a paper using scientific literature and empirical research

#### General Competences

1. Search for, analysis and synthesis of data and information, with the use of the necessary technology
2. Working independently
3. Working in an interdisciplinary environment
4. Project planning and management
5. Production of free, creative and inductive thinking

### (3) Syllabus

Infrastructures: definitions, types of infrastructures (technical, technological, social, etc.). Theories of spatial development with emphasis on theories that bring forward the role of infrastructures. Impacts of infrastructure building in the environment, society, economy. Mathematical models for land use-transport, input-output etc., that are used in analysing infrastructure role. European and national infrastructure policies. New trends on infrastructures.

In the projects that students will complete, the practical dimensions of some of the theoretical aspects will be explored.

#### (4) Teaching and Learning Methods - Evaluation

<b>Delivery:</b>	Face to face	
<b>Use of Information and Communication Technology:</b>		
<b>Teaching Methods:</b>	<b>Activity</b>	<b>Semester workload</b>
Lecture		39
Project		70
Non-supervised study		20
Performance evaluation/Exams		3
	<b>Course total&lt;</b>	<b>132</b>
<b>Student Performance Evaluation</b>	Written exams and papers	

#### (5) Attached Bibliography

Σκαγιάννης Π (1994) Πολιτική Προγραμματισμού των Υποδομών, Σταμούλη Α.Ε.