1. **COURSE TITLE**

Environmental Economics and Policy Analysis: The Theory of Externalities and the Economics of Pollution Control

1.1. **Course number**

SSEB-E04

1.2. **Content area**

Environmental Economics, Environmental Policy, Environmental Management, Public Economics

1.3. **Course level**

Advanced Bachelor or Master

1.4. **Language**

English

1.5. **Prerequisites**

Previous microeconomics coursework is recommended. Interested students without that background should consult the instructor to check if their training is appropriate for successfully taking this course.

1.6. **Minimum attendance requirement**

Attendance is mandatory. Minimum attendance to pass the course is 80%.

1.7. **Faculty data**

Prof. Dr. Miguel Buñuel  
Facultad de Ciencias Económicas y Empresariales  
Departamento de Economía y Hacienda Pública  
Despacho 205, Módulo E-6  
Tel.: (+34) 91 497 68 19  
E-mail: miguel.bunuel@uam.es  
Office hours: By appointment.
1.8. **Course objectives**

This subject studies fundamental issues related to public environmental policies and management. In particular, the course deals with the role of the Public Sector for internalizing environmental externalities through public policies.

As a result, students will be able to understand the justification and effects of environmental public policies, as well as to formulate them, and analyze them. Students will also develop useful abilities for their professional life, and they will learn methodological tools valuable for careers in the public and private sectors or in Academia.

1.9. **Course contents**

01. Introduction

02. The Theory of Externalities

03. The Economics of Pollution Control

1.10. **Course bibliography**


Complementary material will be provided through Moodle (UAM’s web platform).

2. **Teaching methodology**

Teaching activities requiring students’ attendance will be the following:

1. Theoretical lectures and problem-solving sessions: Theoretical lectures will be based upon the materials provided to students, and PowerPoint presentations. Theoretical lectures will be combined with problem-solving sessions, which will apply the concepts and techniques presented in the former. In both cases, participation will be encouraged.
Environmental Economics and Policy Analysis: The Theory of Externalities and the Economics of Pollution Control
Summer School of Economics and Business
Faculty of Economics and Business Studies
ECTS credits: 3

2. Guest lectures, visits to institutions and field trips.

3. Optional: Non-compulsory sessions with one or several students during office hours.

Students’ activities not requiring attendance will be the following:

1. Personal study for preparing lectures, homework, and exams.

2. Students will complete homework assignments, which will be delivered electronically through Moodle.

3. A final take-home exam will be delivered electronically through Moodle.

3. **Student workload**

<table>
<thead>
<tr>
<th>ACTIVITIES</th>
<th>HOURS</th>
<th>ECTS</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>With attendance</td>
<td>30</td>
<td>1.20</td>
<td>40.00</td>
</tr>
<tr>
<td>Theoretical lectures and problem-solving sessions</td>
<td>20</td>
<td>0.80</td>
<td>26.66</td>
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<td>Guest lectures, visits to institutions and field trips</td>
<td>10</td>
<td>0.40</td>
<td>13.33</td>
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<tr>
<td>With no attendance</td>
<td>45</td>
<td>1.80</td>
<td>60.00</td>
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<tr>
<td>Personal study and homework</td>
<td>22.5</td>
<td>0.90</td>
<td>30.00</td>
</tr>
<tr>
<td>Personal study and exams</td>
<td>22.5</td>
<td>0.90</td>
<td>30.00</td>
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<td><strong>TOTAL</strong></td>
<td>75</td>
<td>3.00</td>
<td>100.00</td>
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4. **Evaluation procedures and weight of components in the final grade**

<table>
<thead>
<tr>
<th>PROCEDURE</th>
<th>% GRADE</th>
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<tbody>
<tr>
<td>Attendance and participation</td>
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<tr>
<td>Homework 1</td>
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<tr>
<td>Homework 2</td>
<td>25.00</td>
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<tr>
<td>Take-home final exam</td>
<td>40.00</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>100.00</strong></td>
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