310626 - Smartcities

The cities and territories of the informations produce continuous data, putting in evidence the movement of persons and materials, the decision fluxes and the characteristics of its spacial configuration and social form, between other aspects.

The goal of the subject is the recognition of the lecture tools in the constructed environments like instruments for the improvement of the efficiency, equity, sustainability and the quality of life in the cities of the future.

Teaching methodology

It will be combined theoretical sessions given in class with the monitoring of the activities of the course.

Learning objectives of the subject

The cities and territories of the informations produce continuous data, putting in evidence the movement of persons and materials, the decision fluxes and the characteristics of its spacial configuration and social form, between other aspects. The goal of the subject is the recognition of the lecture tools in the constructed environments like instruments for the improvement of the efficiency, equity, sustainability and the quality of life in the cities of the future.

Study load

<table>
<thead>
<tr>
<th>Total learning time: 112h 30m</th>
<th>Hours large group: 18h 16.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours medium group: 27h 24.00%</td>
<td></td>
</tr>
<tr>
<td>Self study: 67h 30m 60.00%</td>
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</tbody>
</table>
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Content

<table>
<thead>
<tr>
<th>CONTENTS</th>
<th>Learning time: 45h</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Practical classes: 30h</td>
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<tr>
<td></td>
<td>Guided activities: 9h</td>
</tr>
<tr>
<td></td>
<td>Self study: 6h</td>
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</tbody>
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Description:
01. The smart city concept: top-down smart cities vs bottom-up smart cities
02. Lecture of the city/territory from the morphologic elements: The spacial configuration of the urban environment
03. Lecture of the city/territory from the fluxes: The configuration related with the urban environment
04. Visualization and Simulation
05. Smart cities and citizenship participation
06. Smart cities and mobility
07. Smart cities and economy
08. Smart cities and environment
09. Smart cities and infrastructures of urban services and management of services
10. Smart cities and adaptative design
11. Smart cities and green infrastructure

Bibliography

Basic:

