250ST2035 - Developing Mobility (C+D)

Degree competences to which the subject contributes

Basic:
CB9. (ENG) Que els estudiants sàpiguen comunicar les seves conclusions i coneixements (i darrers raonaments que els sostentin), a públics especialitzats i no especialitzats de manera clara i sense ambigüitats.

Specific:
CEMEI18. Knowledge about manufacturing, construction, facilities, infrastructures, and urban design in the field of industrial engineering.
CEEORG2. Design, develop and apply analytical methods (quantitative methods, statistics, models and decision tools) in order to make strategic, tactical and operational decisions for organizations.

Generical:
CGMEI03. (ENG) Dirigir, planificar i supervisar equips multidisciplinàris.

Teaching methodology
Lectures accompanied by tutorials and workshops and independent study.

Learning objectives of the subject
The aim is to present the concept of sustainable community-based city, pursuing a clear understanding of:

i) Forces that shape the contemporary urban spatial structure

ii) The relationship between morphological and functional dynamics—stocks and flows—in cities

iii) The relationship between spatial configuration/urban landscape and sustainable mobility

iv) The role of the GIS-based spatial and network analysis, big-data and information-based decision-making in contemporary urban studies and policies
250ST2035 - Developing Mobility (C+D)

Study load

<table>
<thead>
<tr>
<th>Total learning time: 125h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours large group:</td>
</tr>
<tr>
<td>Hours medium group:</td>
</tr>
<tr>
<td>Hours small group:</td>
</tr>
<tr>
<td>Guided activities:</td>
</tr>
<tr>
<td>Self study:</td>
</tr>
</tbody>
</table>

Content

<table>
<thead>
<tr>
<th>CONTENT</th>
<th>Learning time: 125h</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Theory classes: 62h 30m</td>
</tr>
<tr>
<td></td>
<td>Guided activities: 50h</td>
</tr>
<tr>
<td></td>
<td>Self study: 12h 30m</td>
</tr>
</tbody>
</table>

Description:
INTRODUCTION
Urban spatial structure, spatial configuration, social interaction, liveability and urbanity, smart cities, sustainable mobility
BACKGROUND
Morphological and functional dynamics of polycentricism of regional and intra-urban centres
From environmental areas to shared space: a review on pedestrian-oriented planning
Urban Landscape values
Network Urbanism
Spatial and network analysis
STRATEGIES
Evidenced-based vs Information-based analysis
Urban centralities
Conventional urban and street design strategies
Tactical urbanism

Qualification system

50% coursework + 50% exam

Bibliography

Basic: