



## Teaching Guide

| Teaching Guide      |                                                                                                                                                                                                                                                                                                                                                          |        |                           |           |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------|-----------|
| Identifying Data    |                                                                                                                                                                                                                                                                                                                                                          |        |                           | 2020/21   |
| Subject (*)         | Sustainable urban engineering                                                                                                                                                                                                                                                                                                                            |        | Code                      | 632G01064 |
| Study programme     | Grao en Enxeñaría de Obras Públicas                                                                                                                                                                                                                                                                                                                      |        |                           |           |
| Descriptors         |                                                                                                                                                                                                                                                                                                                                                          |        |                           |           |
| Cycle               | Period                                                                                                                                                                                                                                                                                                                                                   | Year   | Type                      | Credits   |
| Graduate            | 1st four-month period                                                                                                                                                                                                                                                                                                                                    | Third  | Optional                  | 4.5       |
| Language            | Spanish                                                                                                                                                                                                                                                                                                                                                  |        |                           |           |
| Teaching method     | Face-to-face                                                                                                                                                                                                                                                                                                                                             |        |                           |           |
| Prerequisites       |                                                                                                                                                                                                                                                                                                                                                          |        |                           |           |
| Department          | Enxeñaría CivilMatemáticas                                                                                                                                                                                                                                                                                                                               |        |                           |           |
| Coordinador         | Cagiao Villar, Juan                                                                                                                                                                                                                                                                                                                                      | E-mail | juan.cagiao.villar@udc.es |           |
| Lecturers           | Cagiao Villar, Juan                                                                                                                                                                                                                                                                                                                                      | E-mail | juan.cagiao.villar@udc.es |           |
| Web                 | www.lis.edu.es                                                                                                                                                                                                                                                                                                                                           |        |                           |           |
| General description | Análisis de modelos sostenibles de desarrollo urbano y la influencia del cambio climático                                                                                                                                                                                                                                                                |        |                           |           |
| Contingency plan    | 1. Modifications to the contents<br><br>2. Methodologies<br>*Teaching methodologies that are maintained<br><br>*Teaching methodologies that are modified<br><br>3. Mechanisms for personalized attention to students<br><br>4. Modifications in the evaluation<br><br>*Evaluation observations:<br><br>5. Modifications to the bibliography or webgraphy |        |                           |           |

## Study programme competences

| Code | Study programme competences                                                                                                                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A35  | Conocimiento de la influencia de las infraestructuras en la ordenación del territorio y para participar en la urbanización del espacio público urbano, tales como distribución de agua, saneamiento, gestión de residuos, sistema de transporte, tráfico, iluminación, etc. |

## Learning outcomes

| Learning outcomes | Study programme competences |  |  |
|-------------------|-----------------------------|--|--|
| saber             | A35                         |  |  |

## Contents

| Topic                                              | Sub-topic |
|----------------------------------------------------|-----------|
| 1.- Estrategias urbanas                            |           |
| 2.- Planeamiento de eco-ciudades                   |           |
| 3.- Conservación y regeneración urbanas            |           |
| 4.- Casos de estudio                               |           |
| 5.- Entornos inteligentes y tecnologías emergentes |           |



|                                                                    |  |
|--------------------------------------------------------------------|--|
| 6.- Energía sostenible urbana                                      |  |
| 7.- Residuos y su gestión                                          |  |
| 8.- Transporte                                                     |  |
| 9.- La Comunidad y la ciudad. Calidad de vida. Cultura y herencias |  |
| 10.- El riesgo en el planeamiento                                  |  |
| 11.- Seguridad                                                     |  |

| Planning                                                                                                                        |              |                      |                               |             |
|---------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------|-------------------------------|-------------|
| Methodologies / tests                                                                                                           | Competencies | Ordinary class hours | Student?s personal work hours | Total hours |
| Seminar                                                                                                                         | A35          | 102.5                | 0                             | 102.5       |
| Guest lecture / keynote speech                                                                                                  | A35          | 10                   | 0                             | 10          |
| Personalized attention                                                                                                          |              | 0                    |                               | 0           |
| (*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |              |                      |                               |             |

| Methodologies                  |             |
|--------------------------------|-------------|
| Methodologies                  | Description |
| Seminar                        |             |
| Guest lecture / keynote speech |             |

| Personalized attention |             |
|------------------------|-------------|
| Methodologies          | Description |
| Seminar                |             |

| Assessment                     |              |                                                               |               |
|--------------------------------|--------------|---------------------------------------------------------------|---------------|
| Methodologies                  | Competencies | Description                                                   | Qualification |
| Seminar                        | A35          | Desarrollo de trabajos prácticos                              | 70            |
| Guest lecture / keynote speech | A35          | Material teórico necesario para el desarrollo de los trabajos | 30            |

| Assessment comments |
|---------------------|
|                     |

| Sources of information |  |
|------------------------|--|
| Basic                  |  |
| Complementary          |  |

| Recommendations                                          |
|----------------------------------------------------------|
| Subjects that it is recommended to have taken before     |
|                                                          |
| Subjects that are recommended to be taken simultaneously |
|                                                          |
| Subjects that continue the syllabus                      |
|                                                          |
| Other comments                                           |
|                                                          |



(\*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.