



## Teaching Guide

| Teaching Guide      |                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                                                                                                                                                                       |           |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Identifying Data    |                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                                                                                                                                                                       | 2019/20   |
| Subject (*)         | Traballo Fin de Grao (plan 2016)                                                                                                                                                                                                                                                                                                                     |        | Code                                                                                                                                                                                                                                  | 632G02141 |
| Study programme     | Grao en Tecnoloxía da Enxeñaría Civil                                                                                                                                                                                                                                                                                                                |        |                                                                                                                                                                                                                                       |           |
| Descriptors         |                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                                                                                                                                                                       |           |
| Cycle               | Period                                                                                                                                                                                                                                                                                                                                               | Year   | Type                                                                                                                                                                                                                                  | Credits   |
| Graduate            | 2nd four-month period                                                                                                                                                                                                                                                                                                                                | Fourth | Obligatory                                                                                                                                                                                                                            | 12        |
| Language            | SpanishGalician                                                                                                                                                                                                                                                                                                                                      |        |                                                                                                                                                                                                                                       |           |
| Teaching method     | Face-to-face                                                                                                                                                                                                                                                                                                                                         |        |                                                                                                                                                                                                                                       |           |
| Prerequisites       |                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                                                                                                                                                                       |           |
| Department          | Enxeñaría Civil                                                                                                                                                                                                                                                                                                                                      |        |                                                                                                                                                                                                                                       |           |
| Coordinador         | Anton Casado, Arturo                                                                                                                                                                                                                                                                                                                                 | E-mail | arturo.anton@udc.es                                                                                                                                                                                                                   |           |
| Lecturers           | Anton Casado, Arturo<br>Fernandez de Mesa Diaz del Rio, Jose Ramon<br>González Mejjide, José Antonio<br>López Rúa, David<br>Maciñeira Alonso, Enrique<br>Mosqueira Martinez, Gonzalo<br>Rodríguez Pardo, Juan Antonio<br>Toba Blanco, Eduardo<br>Valladares Lopez, Leticia                                                                           | E-mail | arturo.anton@udc.es<br>jose.fernandezdemesa@udc.es<br>antonio.mejjide@udc.es<br>david.lopez.rua@udc.es<br>enrique.macineira@udc.es<br>gonzalo.mosqueira.martinez@udc.es<br>juan.antonio.rodriguez@udc.es<br>leticia.valladares@udc.es |           |
| Web                 | http://caminos.udc.es/info/asignaturas/obras_publicas/309/index.html                                                                                                                                                                                                                                                                                 |        |                                                                                                                                                                                                                                       |           |
| General description | Realización, presentación e defensa, unha vez obtidos todos os créditos do plan de estudos, dun exercicio orixinal defendido individualmente ante un tribunal universitario, consistente nun proxecto integral de enxeñaría civil de natureza profesional no que se sintetizan as competencias adquiridas no ensino na especialidade correspondente. |        |                                                                                                                                                                                                                                       |           |

## Study programme competences

| Code | Study programme competences |
|------|-----------------------------|
|------|-----------------------------|

## Learning outcomes

| Learning outcomes                                                                                                                                                                                                                       | Study programme competences |     |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----|-----|
| Capacidade para a redacción e presentación dun Proxecto orixinal que quede englobado en calquera dos campos que abarca a correspondente especialidade de construcións civís dentro da profesión do Enxeñeiro Técnico de Obras Públicas. | A1                          | B1  | C3  |
|                                                                                                                                                                                                                                         | A2                          | B2  | C4  |
|                                                                                                                                                                                                                                         | A3                          | B3  | C5  |
|                                                                                                                                                                                                                                         |                             | B4  | C6  |
|                                                                                                                                                                                                                                         |                             | B5  | C9  |
|                                                                                                                                                                                                                                         |                             | B6  | C11 |
|                                                                                                                                                                                                                                         |                             | B7  | C12 |
|                                                                                                                                                                                                                                         |                             | B8  | C13 |
|                                                                                                                                                                                                                                         |                             | B11 | C14 |
|                                                                                                                                                                                                                                         |                             | B12 | C15 |
|                                                                                                                                                                                                                                         |                             | B13 | C16 |
|                                                                                                                                                                                                                                         |                             | B14 | C17 |
|                                                                                                                                                                                                                                         |                             | B16 | C18 |
|                                                                                                                                                                                                                                         |                             | B17 | C19 |

## Contents

| Topic | Sub-topic |
|-------|-----------|
|-------|-----------|



|                                           |                                                                                                                                                                                                         |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROXECTO FIN DE CARREIRA                  | DEFINICIÓ DE PROXECTO FIN DE CARREIRA<br>ELECCIÓN DO PROXECTO FIN DE CARREIRA<br>SEGUIMENTO DO PFC<br>ANALISE DE ALTERNATIVAS E ELECCION DA SOLUCIÓN A ADOPTAR<br>PRESENTACIÓN E EVALUACIÓN DO PROXECTO |
| CONTIDO XERAL DO PROXECTO FIN DE CARREIRA | MEMORIA<br>ANEXOS Á MEMORIA<br>PLANOS<br>PREGO DE PRESCRIPCIONS TÉCNICAS PARTICULARES<br>PRESUPOSTO                                                                                                     |

| Planning                                                                                                                        |                                                                                                      |                      |                               |             |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------|-------------------------------|-------------|
| Methodologies / tests                                                                                                           | Competencies                                                                                         | Ordinary class hours | Student?s personal work hours | Total hours |
| Introductory activities                                                                                                         | A2 C17 C18                                                                                           | 4                    | 4                             | 8           |
| Supervised projects                                                                                                             | A1 A3 B1 B2 B3 B4<br>B5 B6 B7 B8 B13 B14<br>B16 B17 C3 C4 C5<br>C6 C9 C11 C12 C13<br>C14 C15 C16 C19 | 60                   | 200                           | 260         |
| Speaking test                                                                                                                   | B11 B12 C18                                                                                          | 1                    | 16                            | 17          |
| Personalized attention                                                                                                          |                                                                                                      | 15                   | 0                             | 15          |
| (*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students. |                                                                                                      |                      |                               |             |

| Methodologies           |                                                                     |
|-------------------------|---------------------------------------------------------------------|
| Methodologies           | Description                                                         |
| Introductory activities | Presentación da asignatura e explicación do funcionamento da mesma. |
| Supervised projects     | Redacción dun Proxecto completo de Enxeñería Civil.                 |
| Speaking test           | Presentación pública do proxecto realizado fronte a un tribunal.    |

| Personalized attention |                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methodologies          | Description                                                                                                                                                                |
| Supervised projects    | Tutorías personalizadas para revisión e aprobación dos documentos que forman o Proxecto que redacta o alumno.<br><br>Coordinador: Arturo Antón Casado. arturo.anton@udc.es |

| Assessment          |                                                                                                      |                                                                                                                                 |               |
|---------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------|
| Methodologies       | Competencies                                                                                         | Description                                                                                                                     | Qualification |
| Speaking test       | B11 B12 C18                                                                                          | Avalación da capacidade do alumno de sintetizar o seu proxecto a responder ás cuestión plantexados polo tribunal sobre o mesmo. | 10            |
| Supervised projects | A1 A3 B1 B2 B3 B4<br>B5 B6 B7 B8 B13 B14<br>B16 B17 C3 C4 C5<br>C6 C9 C11 C12 C13<br>C14 C15 C16 C19 | Valoración da calidade documental do proxecto presentado e da adecuación da solución proposta ó problema plantexado.            | 90            |
| Others              |                                                                                                      |                                                                                                                                 |               |

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



## Sources of information

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic         | <ul style="list-style-type: none"><li>- Ignacio Morilla Abad (). Guía metodológica y práctica para la realización de Proyectos. . Servicio de Publicaciones del Colegio de Ingenieros de Caminos, Canales y Puertos. Madrid.</li><li>- Gonzalo de Fuentes Bescós. (). Valoración de obras en Ingeniería Civil.. Universidad Politécnica de Madrid.</li><li>- ETSECCP A Coruña (). Procedimiento para la realización del Proyecto Fin de Carrera.<br/><a href="https://docs.google.com/document/d/1_PW607gA2HuN8gP4FEeDHmjp-5_jcvnpT1try09lFEo/pub">https://docs.google.com/document/d/1_PW607gA2HuN8gP4FEeDHmjp-5_jcvnpT1try09lFEo/pub</a></li></ul> |
| 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.