



| Teaching Guide         |                                                                                                                                                                                                                                                                                                                                                                                                     |                    |          |           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|-----------|
| Identifying Data       |                                                                                                                                                                                                                                                                                                                                                                                                     |                    |          | 2021/22   |
| Subject (*)            | Métodos Numéricos Avanzados                                                                                                                                                                                                                                                                                                                                                                         |                    | Code     | 632011617 |
| Study programme        | Enxeñeiro de Camiños, Canais e Portos                                                                                                                                                                                                                                                                                                                                                               |                    |          |           |
| Descriptors            |                                                                                                                                                                                                                                                                                                                                                                                                     |                    |          |           |
| Cycle                  | Period                                                                                                                                                                                                                                                                                                                                                                                              | Year               | Type     | Credits   |
| First and Second Cycle | 2nd four-month period                                                                                                                                                                                                                                                                                                                                                                               | Third Fourth Fifth | Optional | 4         |
| Language               | SpanishEnglish                                                                                                                                                                                                                                                                                                                                                                                      |                    |          |           |
| Teaching method        | Face-to-face                                                                                                                                                                                                                                                                                                                                                                                        |                    |          |           |
| Prerequisites          |                                                                                                                                                                                                                                                                                                                                                                                                     |                    |          |           |
| Department             | Matemáticas                                                                                                                                                                                                                                                                                                                                                                                         |                    |          |           |
| Coordinador            |                                                                                                                                                                                                                                                                                                                                                                                                     | E-mail             |          |           |
| Lecturers              |                                                                                                                                                                                                                                                                                                                                                                                                     | E-mail             |          |           |
| Web                    | <a href="http://caminos.udc.es/info/asignaturas/mna/">http://caminos.udc.es/info/asignaturas/mna/</a>                                                                                                                                                                                                                                                                                               |                    |          |           |
| General description    | Ver página web de la asignatura: <a href="http://caminos.udc.es/info/asignaturas/mna/">http://caminos.udc.es/info/asignaturas/mna/</a>                                                                                                                                                                                                                                                              |                    |          |           |
| Contingency plan       | <div>1. Modifications to the contents</div> <div>2. Methodologies</div> <div>*Teaching methodologies that are maintained</div> <div>*Teaching methodologies that are modified</div> <div>3. Mechanisms for personalized attention to students</div> <div>4. Modifications in the evaluation</div> <div>*Evaluation observations:</div> <div>5. Modifications to the bibliography or webgraphy</div> |                    |          |           |

| Study programme competences / results |                                       |
|---------------------------------------|---------------------------------------|
| Code                                  | Study programme competences / results |

| Learning outcomes |                                       |
|-------------------|---------------------------------------|
| Learning outcomes | Study programme competences / results |

| Contents                                                                                                                                  |                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Topic                                                                                                                                     | Sub-topic                                                                                                                              |
| Ver página web de la asignatura:<br><a href="http://caminos.udc.es/info/asignaturas/mna/">http://caminos.udc.es/info/asignaturas/mna/</a> | Ver página web de la asignatura: <a href="http://caminos.udc.es/info/asignaturas/mna/">http://caminos.udc.es/info/asignaturas/mna/</a> |

| Planning                       |                        |                                      |                               |             |
|--------------------------------|------------------------|--------------------------------------|-------------------------------|-------------|
| Methodologies / tests          | Competencies / Results | Teaching hours (in-person & virtual) | Student?s personal work hours | Total hours |
| Guest lecture / keynote speech |                        | 30                                   | 30                            | 60          |
| Laboratory practice            |                        | 30                                   | 60                            | 90          |
| 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                                                                                                                            |
| Guest lecture / keynote speech | Ver página web de la asignatura: <a href="http://caminos.udc.es/info/asignaturas/mna/">http://caminos.udc.es/info/asignaturas/mna/</a> |
| Laboratory practice            | Ver página web de la asignatura: <a href="http://caminos.udc.es/info/asignaturas/mna/">http://caminos.udc.es/info/asignaturas/mna/</a> |

| Personalized attention         |                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------|
| Methodologies                  | Description                                                                                           |
| Guest lecture / keynote speech | Ver página web de la asignatura:                                                                      |
| Laboratory practice            | <a href="http://caminos.udc.es/info/asignaturas/mna/">http://caminos.udc.es/info/asignaturas/mna/</a> |

| Assessment                     |                        |                                                                                                                                           |               |
|--------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Methodologies                  | Competencies / Results | Description                                                                                                                               | Qualification |
| Guest lecture / keynote speech |                        | Ver página web de la asignatura:<br><a href="http://caminos.udc.es/info/asignaturas/mna/">http://caminos.udc.es/info/asignaturas/mna/</a> | 20            |
| Laboratory practice            |                        | Ver página web de la asignatura:<br><a href="http://caminos.udc.es/info/asignaturas/mna/">http://caminos.udc.es/info/asignaturas/mna/</a> | 80            |
| Others                         |                        |                                                                                                                                           |               |

| Assessment comments                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Ver página web de la asignatura: <a href="http://caminos.udc.es/info/asignaturas/mna/">http://caminos.udc.es/info/asignaturas/mna/</a> </p> |

| Sources of information |                                                                                                                                                                                                                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic                  | - Ver página web de la asignatura: <a href="http://caminos.udc.es/info/asignaturas/mna/">http://caminos.udc.es/info/asignaturas/mna/</a> (). .<br>- Ver página web de la asignatura: <a href="http://caminos.udc.es/info/asignaturas/mna/">http://caminos.udc.es/info/asignaturas/mna/</a> (). . |
| Complementary          |                                                                                                                                                                                                                                                                                                  |

| Recommendations                                          |
|----------------------------------------------------------|
| Subjects that it is recommended to have taken before     |
| Cálculo Numérico/632011301                               |
| Subjects that are recommended to be taken simultaneously |
| Linguaxe C/632011615                                     |
| 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.