

UNIVERSIDAD DE CASTILLA - LA MANCHA GUÍA DOCENTE

1. General information

Course: MANAGEMENT AND URBAN DESIGN OF FORMS

Type: ELECTIVE

2343 - MASTERS DEGREE PROGRAMME IN ENGINEERING OF ROADS,

CANALS AND PORTS

Center: 603 - E.T.S. CIVIL ENGINEERS OF CR

Year: 2

Main language: English
Use of additional

languages: Web site: Academic year: 2023-24
Group(s): 20

ECTS credits: 4.5

Duration: First semester

Code: 310819

Second language: Spanish

English Friendly: N

Bilingual: N

| Lecturer: MARIA AMPARO MOYANO ENRIQUEZ DE SALAMANCA - Group(s): 20 | | | | | | | | | |
|--|---|--------------|------------------------|---|--|--|--|--|--|
| Building/Office | Department | Phone number | Email | Office hours | | | | | |
| | INGENIERÍA CIVIL Y DE LA EDIFICACIÓN | 926051930 | lAmparo Movano@uclm es | Wed and Thu: 11:30 to 14:30. In any case, the student should ask for an appointment by email. | | | | | |

2. Pre-Requisites

Not established

3. Justification in the curriculum, relation to other subjects and to the profession

The course belongs to the Master "Ing. de Caminos" (Civil engineering) urban and transport intensification. For that reason, it is linked to the "Trabajo Proyectual" (PBL; project work) in the same topic, and gives theorical support and analysis tools to the learning process.

4. Degree competences achieved in this course

Course competences

Code Description

Knowledge of the history of civil engineering and ability to analyse and assess public works in particular and the construction industry

in general.

G14 Ability to undertake studies, spatial planning and urban development plans and projects.

ITUOT6 Knowledge of the influence of urban form on the efficiency of modes of urban transportation and the management of public services

and infrastructure.

ITUOT7 Capacity to analyse and diagnose the social, cultural, environmental and economic conditions of a neighbourhood, as well as to carry

out projects to improve urban quality

5. Objectives or Learning Outcomes

Course learning outcomes

Description

Students are familiar with the forms of physical and social rehabilitation of residential neighborhoods.

Students are familiar with the measures to preserve and promote the built heritage in the different areas of the city, especially in the historic districts.

Students are familiar with the most common problems of urban infrastructure and services in different urban forms.

Students know the problems and solutions that are usual for mobility in the different types of neighborhoods.

Students are familiar with the most modern techniques for introducing sustainable mobility into the various urban forms. Intermodal transportation hubs, bicycles, public transport.

Students understand the peculiarities of planning, designing and managing different urban forms.

6. Units / Contents

Unit 1: Identification of urban forms. Management and desing problems

Unit 1.1 Historic City centres

Unit 1.2 XIXth century urban expansions (Ensanches)

Unit 1.3 Modern movement residential neighbourhoods

Unit 1.4 Peripheral single family housing neighbourhoods

Unit 2: GIS analysis of urban forms

Unit 2.1 Data sources and repositories

Unit 2.2 Methods of urban forms' analysis and identification

Unit 2.3 Urban forms' analysis: urban parameters, land-use, streets characteristics, etc.

Unit 2.4 Network analysis and urban studies

| 7. Activities, Units/Modules and Methodology | | | | | | | |
|--|-------------|---|------|-------|----|-----|-------------|
| Training Activity | Methodology | Related Competences (only degrees before RD 822/2021) | ECTS | Hours | As | Com | Description |
| | | | | | | | |

| Class Attendance (theory) [ON-SITE] | Lectures | G04 G14 ITUOT6 ITUOT7 | 0.72 | 18 | N | - | | |
|---|---|-----------------------|---|-------|---|--|--|--|
| Computer room practice [ON-SITE] | Guided or supervised work | G04 G14 ITUOT6 ITUOT7 | 0.38 | 9.5 | Υ | N | | |
| Project or Topic Presentations [ON- SITE] | Debates | G04 G14 ITUOT6 ITUOT7 | 0.25 | 6.25 | Υ | Presentation and debates about urban forms manegement, N comparing the case study proposed for analysis and other international cases. | | |
| Practicum and practical activities report writing or preparation [OFF-SITE] | Individual presentation of projects and reports | G04 G14 ITUOT6 ITUOT7 | 0.8 | 20 | Υ | Reports and slides elaboration about urban forms' management, and GIS Y analysis and maps elaboration related to specific aspects of urban forms. Retrievable activity. | | |
| Writing of reports or projects [OFF-SITE] | project-based learning | G04 G14 ITUOT6 ITUOT7 | 2.35 | 58.75 | Υ | Final report including the analysis, identification and comparison of urban forms in the case study proposed, which could be a national or international city. Retrievable activity. | | |
| | Total: | | | | | | | |
| Total credits of in-class work: 1.35 | | | Total class time hours: 33.75 | | | | | |
| Total credits of out of class work: 3.15 | | | Total hours of out of class work: 78.75 | | | | | |

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

| 8. Evaluation criteria and Grading System | | | | | | | |
|---|-----------------------|-----------------------------------|--|--|--|--|--|
| Evaluation System | Continuous assessment | Non- continuous evaluation* | resentations and debates. IS analysis maps and reports/slides about urban forms' anagement. Minimum grade required in each one: 4.0 nal report of the course, including the identification of urban | | | | |
| Assessment of active participation | 20.00% | 10 00% | Class participation during computer room practices, presentations and debates. | | | | |
| Practicum and practical activities reports assessment | 30.00% | 130 00% | GIS analysis maps and reports/slides about urban forms' management. Minimum grade required in each one: 4.0 | | | | |
| Projects | 50.00% | | Final report of the course, including the identification of urban forms and good practices for management. Minimum grade required: 4.0 | | | | |
| Total: | 100.00% | 100.00% | | | | | |

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

Evaluation criteria for the final exam:

Continuous assessment:

The final grade of the course must be greater or equal to 5.0, and it will be obtained using the percentages assigned for the different activities included in the continuous evaluation system.

Unless stated otherwise, continuous evaluation criteria will be applied to all students.

Anyone choosing non-continuous assessment must follow the official process to inform about it. This option is only available if the student's participation in evaluation activities (from the continuous assessment) has not reached 50% of the total evaluation for the subject.

Non-continuous evaluation:

The final grade of the course must be greater or equal to 5.0, and it will be obtained using the percentages assigned for the different activities included in the non-continuous evaluation system.

In this case, the students must do the GIS analysis and reports in an autonomous way and present them in the final evaluation with the final report. In addition, they must include a section in the final report with the comparison with international case studies, as they probably do not attend the presentations and debates carried out during the course.

Specifications for the resit/retake exam:

Every student is evaluated in the same way than in the final exam assessment (for both continuous or non-continuous evaluation), considering the same weighting percentages for getting the final grade.

Specifications for the second resit / retake exam:

In this case, every student is evaluated using the same criteria and weighting percentages established in the non-continuous evaluation.

| 9. Assignments, course calendar and important dates | |
|--|-------|
| Not related to the syllabus/contents | |
| Hours | hours |
| Writing of reports or projects [AUTÓNOMA][project-based learning] | 18.75 |
| Unit 1 (de 2): Identification of urban forms. Management and desing problems | |
| Activities | Hours |
| Class Attendance (theory) [PRESENCIAL][Lectures] | 9 |
| Project or Topic Presentations [PRESENCIAL][Debates] | 4 |
| Practicum and practical activities report writing or preparation [AUTÓNOMA][Individual presentation of projects and reports] | 10 |
| Writing of reports or projects [AUTÓNOMA][project-based learning] | 20 |
| Unit 2 (de 2): GIS analysis of urban forms | |
| Activities | Hours |
| Class Attendance (theory) [PRESENCIAL][Lectures] | 9 |
| | |

| Computer room practice [PRESENCIAL][Guided or supervised work] | 9.5 | | |
|--|-------|--|--|
| Project or Topic Presentations [PRESENCIAL][Debates] | 2.25 | | |
| Practicum and practical activities report writing or preparation [AUTÓNOMA][Individual presentation of projects and reports] | 10 | | |
| Writing of reports or projects [AUTÓNOMA][project-based learning] | 20 | | |
| Global activity | | | |
| Activities | hours | | |
| Practicum and practical activities report writing or preparation [AUTÓNOMA][Individual presentation of projects and reports] | 20 | | |
| Writing of reports or projects [AUTÓNOMA][project-based learning] | 58.75 | | |
| Project or Topic Presentations [PRESENCIAL][Debates] | 6.25 | | |
| Class Attendance (theory) [PRESENCIAL][Lectures] | 18 | | |
| Computer room practice [PRESENCIAL][Guided or supervised work] | 9.5 | | |
| Total horas: 112.5 | | | |

| 10. Bibliography and Sources | | | | | | |
|---------------------------------|--|--|------------|-------------------|------|-------------|
| Author(s) | Title/Link | Publishing house | Citv | ISBN | Year | Description |
| Barrionuevo Ferrer, Antonio | Sevilla: las formas de crecimiento y construcción de la ciud | Universidad, Secretariado de Publicaciones | | 84-472-0796-X | 2003 | |
| Gutiérrez Puebla, Javier | SIG: Sistemas de Información Geográfica | Síntesis | | 84-7738-246-8 | 2008 | |
| Haupt, P., Berghauser Pont, M. | Spacemate | | | 978-90-407-2530-2 | 2005 | |
| | http://www.urban-knowledge.nl/3/sp | oacemate-spacen | natrix?_la | anguage=en | | |
| Kostof, Spiro | The city assembled: the elements of urban form through histo | Thames & Hudson | | 0-500-28172-6 | 1999 | |
| Kostof, Spiro | The city shaped: urban patterns and meanings through history | Bulfinch Press Book | | 0-8212-2016-0 | 1999 | |
| Panerai, Philippe R. | Formas urbanas: de la manzana al bloque | Gustavo Gili | | 84-252-1291-X | 1986 | |
| Panerai, Philippe R. | Urban forms : the death and life of the urban block / | Architectural Press, | | 978-0-7506-5607-8 | 2004 | |
| Rodríguez-Tarduchy, María José | Forma y ciudad : en los límites de la arquitectura y el urba | Cinter Divulgación Técnica, | | 978-84-939305-0-9 | 2011 | |
| Solà-Morales i Rubió, Manuel de | Las formas de crecimiento urbano | UPC | | 84-8301-197-2 | 2008 | |
| VALENZUELA RUBIO, Manuel | Cascos históricos y dinámicas territoriales: el caso de las | Colegio Universitario | | 84-600-5423-3 | 1988 | |
| | Las formas de crecimiento | | | | | |