



Course guide

480511 - DUT - Urban and Regional Development

Last modified: 12/06/2023

Unit in charge: Barcelona School of Civil Engineering

Teaching unit: 751 - DECA - Department of Civil and Environmental Engineering.

Degree: MASTER'S DEGREE IN TECHNOLOGY FOR HUMAN DEVELOPMENT AND COOPERATION (Syllabus 2012).
(Compulsory subject).

MASTER'S DEGREE IN SUSTAINABILITY SCIENCE AND TECHNOLOGY (Syllabus 2013). (Optional subject).

Academic year: 2023 **ECTS Credits:** 5.0 **Languages:** English

LECTURER

Coordinating lecturer: FRANCESC MAGRINYA TORNER

Others: MIGUEL YURI MAYORGA CARDENAS - JOSEP MERCADÉ ALOY - ROBERT VERGES FERNANDEZ

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

2. The ability to critically analyse and assess theories and perspectives on habitat and urban development in developing countries and the features of urban service networks and spontaneous habitats, and to propose and implement improvements in water supply and sanitation networks for development cooperation by applying appropriate technologies and social participation methods.

Transversal:

1. TEAMWORK: Being able to work in an interdisciplinary team, whether as a member or as a leader, with the aim of contributing to projects pragmatically and responsibly and making commitments in view of the resources that are available.



TEACHING METHODOLOGY

The following teaching methods will be used in the development of the course:

Lecture or conference (EXP): Sharing knowledge through lectures by professors or by external guest speakers.

Problem solving and case studies (RP): group decision exercises, debates and group dynamics, with the teacher and students in the classroom; class presentation of an activity carried out individually or in small groups.

Tutorials of practical or theoretical works (TD): to perform an activity in the classroom, or a theoretical or practical exercise, individually or in small groups, with the advice of the teacher.

Carry out a project, activity or work of reduced scope (PR): to carry out, individually or in a group, of a homework assignment of reduced complexity or scope, applying knowledge and presenting results.

Extensive project (PA): learning based in the design, planning and realisation in groups of a complex or extensive project or piece of work, applying and extending knowledge and writing a report on this approach and the results and conclusions.

Training activites:

The following training activities will be used in the development of the course:

Face-to-face

Theoretical classes and conferences (CTC): knowledge, understanding and synthesis of contents presented by the lecturer (professor) or by guest speakers.

Practical classes (CP): participation in group exercises, as well as discussions and group dynamics, with the teacher and other students in the classroom.

Presentations (PS): class presentations of an activity carried out individually or in small groups.

Theoretical/practical work tutorials (TD): carry out in the class an activity or exercise, theoretical or practical in nature, individually or in small groups, with the advice of the professor.

Remote

Carry out a project, activity or work of reduced scope (PR): to carry out, individually or in a group, of a homework assignment of reduced complexity or scope, applying knowledge and presenting results.

Carry out an extensive project or piece of work (PA): design, plan and conduct individually or in groups, a complex orextensive project or piece of work, applying and extending knowledge and writing a report on this approach and the results and conclusions.

Autonomous study (EA): study or development of the subject individually or in groups, understanding, assimilating, analysing and synthesising knowledge.

LEARNING OBJECTIVES OF THE SUBJECT

At the end of this module, the student will:

Knows and understands theories and approaches about urbanization in the 21st century. Learn to characterize the urban revolutions and the different capitalist waves, to establish the characteristics of globalization, the knowledge society, the urban ecology of metropolises, the differentiation between the spaces of production and the spaces of reproduction proper to a reading of feminist ecology, the spaces of connecting networks and proximity spaces characteristic of network urbanism, the impacts of the energy transition on urbanization, and an introduction to network governance and governance of proximity.

It also learns to locate data and indicators to analyze metropolis and metropolitan neighborhoods in order to characterize the quality of the urban environment of metropolis.

STUDY LOAD

Type	Hours	Percentage
Hours small group	9,0	7.20
Hours large group	24,0	19.20
Hours medium group	12,0	9.60
Self study	80,0	64.00



Total learning time: 125 h

CONTENTS

1. The elements of urbanization over time. Capitalist waves and their effects on the construction of the city and the metropolises

Description:

Understand that there is an evolutionary reading of urbanization that is the result of different capitalist waves: The railway business and the construction of Paris (1850-1870), the business of Marshall credits after the Second World War and the construction of the suburbs Americans (1945-1970), Netcom Businesses and Border Cities (1990-2020)

Full-or-part-time: 1h

Theory classes: 1h

2. The characterization of urban revolutions. The phenomenon of globalization and the characterization of urbanization in the 21st century: post-metropolis and metapolis

Description:

The four urban revolutions will be described according to Edward Soja and the characteristics of urbanization in the 21st century: the process of individualization and its link with the relationships that generate urbanization; the acceleration of time; the precariousness of work; the risk society.

Full-or-part-time: 1h

Theory classes: 1h

3. The characteristics of the knowledge society. Industrial Districts. The production and consumption system in a globalization environment. The phenomena of creative destruction and shrinking cities

Description:

Industrial districts will be characterized. The case of the 50 industrial districts of the USA will be analyzed. A comparative analysis of the cases of Pittsburgh and Detroit as antagonistic models in the face of the phenomena of creative destruction will be carried out. Planning strategies for shrinking cities will be presented.

Full-or-part-time: 1h

Theory classes: 1h

4. The relationship of the metropolis and its environment. The management of the metropolitan metabolism. Dematerialization and decrease

Description:

Introduction to urban ecology and urban sustainability. Analysis of the urban environment and the measurement of the system-environment relationship: ecological footprint, resilience.

Full-or-part-time: 1h

Theory classes: 1h



5. For a feminist ecology. Production and reproduction spaces. Social sustainability. Equity as a benchmark

Description:

The distinction between production spaces and reproduction spaces will be raised, and the crisis of reproduction from a perspective of feminist ecology. The key elements of urban planning that can preserve reproduction spaces and ensure equity and inclusiveness as benchmarks will be analyzed.

Full-or-part-time: 1h

Theory classes: 1h

6. Metropolis and Urbanism of the networks. The effects of dependency and fracture of networks

Description:

The reading of the three levels of networks characteristic of the reading of network urban planning in the metropolises will be developed. The phenomena of dependency on mobility and the phenomena of fracture in the communications generated by the transport and telecommunications networks will be described.

Full-or-part-time: 1h

Theory classes: 1h

7. Proximity spaces. The city of 15 min and the definition of proximity facilities

Description:

The phenomena of inaccessibility due to a poor condition of the public transport offers and the active mobility spaces (on foot and bicycle) will be analyzed. The supply of proximity equipment that ensures social reproduction spaces will be evaluated.

Full-or-part-time: 1h

Theory classes: 1h

8. Evaluation of the quality of the proximity space. Definition of urban quality indicators and the objectives of the 2030 urban Agenda

Description:

The objectives of the Urban Agenda 2030 and the associated indicators will be defined. The urban quality indicators for an agglomeration and for the metropolitan neighborhoods will be described and the quality of information available from a metropolis will be evaluated.

Full-or-part-time: 1h

Theory classes: 1h

9. Metropolises facing climate change: the energy transition, food sovereignty and the preservation of biodiversity

Description:

Metropolitan resilience strategies will be defined in the face of the energy transition, food sovereignty and the preservation of biodiversity

Full-or-part-time: 1h

Theory classes: 1h



10. Metropolises and governance: Connection governance and the fight against the dispossession of financial capitalism

Description:

The offers of urban network operators and the quality of metropolitan governance that ensures good living will be evaluated.

Full-or-part-time: 1h

Theory classes: 1h

11. The governance of proximity. The right to the city in proximity. The third space as an instrument of governance

Description:

The instruments and mechanisms of proximity governance will be analyzed. The right to the city will be evaluated as explicit and the instrument of the third space will be introduced as a method of evaluating urban quality.

Full-or-part-time: 1h

Theory classes: 1h

ACTIVITIES

A1 Presentation and discussion of readings. 1. The elements of urbanization over time. Capitalist waves and their effects on the construction of the city and the metropolises

Description:

Based on the readings, two questions will be asked that will be linked to a personal experience in the city of reference of each student.

Full-or-part-time: 1h

Theory classes: 1h

A2. Presentation of work 1

Description:

Presentation of the contents of the cumulative course work.

Full-or-part-time: 1h

Theory classes: 1h

A3. Presentation and discussion of readings. 2. The characterization of urban revolutions. The phenomenon of globalization and the characterization of urbanization in the 21st century: post-metropolis

Description:

Based on the readings, two questions will be asked that will be linked to a personal experience in the city of reference of each student.

Delivery:

A two-page brief will be delivered answering the questions

Full-or-part-time: 1h

Theory classes: 1h



A4. Presentation and discussion of readings 3. The characteristics of the knowledge society. Industrial Districts. The production and consumption system in a globalization environment.

Description:

Based on the readings, two questions will be asked that will be linked to a personal experience in the city of reference of each student.

Delivery:

A two-page brief will be delivered answering the questions

Full-or-part-time: 1h

Theory classes: 1h

A5. Presentation and discussion of readings 4. The relationship of the metropolis and its environment. The management of the metropolitan metabolism. Dematerialization and decrease

Description:

Based on the readings, two questions will be asked that will be linked to a personal experience in the city of reference of each student.

Delivery:

A two-page brief will be delivered answering the questions

Full-or-part-time: 1h

Theory classes: 1h

A6. Presentation and discussion of readings 5. For a feminist ecology. Production and reproduction spaces. Social sustainability. Equity as a benchmark

Description:

Based on the readings, two questions will be asked that will be linked to a personal experience in the city of reference of each student.

Delivery:

A two-page brief will be delivered answering the questions

Full-or-part-time: 1h

Theory classes: 1h

A7. Presentation and discussion of readings 6. Metapolis and Urbanism of the networks. The effects of dependency and fracture of networks

Description:

Based on the readings, two questions will be asked that will be linked to a personal experience in the city of reference of each student.

Delivery:

A two-page brief will be delivered answering the questions

Full-or-part-time: 1h

Theory classes: 1h



A8. Presentation and discussion of readings 7. Proximity spaces. The city of 15 min and the definition of proximity facilities

Description:

Based on the readings, two questions will be asked that will be linked to a personal experience in the city of reference of each student.

Delivery:

A two-page brief will be delivered answering the questions

Full-or-part-time: 1h

Theory classes: 1h

A9. Working monitoring 1

Description:

Presentation of the contents of the cumulative course work.

Full-or-part-time: 1h

Theory classes: 1h

A10. Presentation and discussion of readings 8. Evaluation of the quality of the proximity space. Definition of urban quality indicators and the objectives of the 2030 urban Agenda

Description:

Based on the readings, two questions will be asked that will be linked to a personal experience in the city of reference of each student.

Delivery:

A two-page brief will be delivered answering the questions

Full-or-part-time: 1h

Theory classes: 1h

A11. Presentation and discussion of readings 9. Metropolises facing climate change: the energy transition, food sovereignty and the preservation of biodiversity

Description:

Based on the readings, two questions will be asked that will be linked to a personal experience in the city of reference of each student.

Delivery:

A two-page brief will be delivered answering the questions

Full-or-part-time: 1h

Theory classes: 1h



A12. Presentation and discussion of readings 10. Metropolises and governance: Connection governance and the fight against the dispossession of financial capitalism

Description:

Based on the readings, two questions will be asked that will be linked to a personal experience in the city of reference of each student.

Delivery:

A two-page brief will be delivered answering the questions

Full-or-part-time: 1h

Theory classes: 1h

A13. Follow-up work 1

Description:

Presentation of the contents of the cumulative course work.

Full-or-part-time: 1h

Theory classes: 1h

A14. Presentation and discussion of readings 11. The governance of proximity. The right to the city in proximity. The third space as an instrument of governance

Description:

Based on the readings, two questions will be asked that will be linked to a personal experience in the city of reference of each student.

Delivery:

A two-page brief will be delivered answering the questions

Full-or-part-time: 1h

Theory classes: 1h

A15. Evaluation of work (1)

Description:

Presentation of the contents of the cumulative course work

Delivery:

Presentation of a report of 15-30 pages

Full-or-part-time: 2h

Self study: 2h

A16. Evaluation of work (1)

Description:

Presentation of the contents of the cumulative course work.

Delivery:

Presentation of a report of 15-30 pages

Full-or-part-time: 2h

Self study: 2h



GRADING SYSTEM

EV1: Written test (PE). 30%

EV2: Oral test (PO). 50%

EV3: Individual or group coursework (TR). This includes results and reports and their oral presentation. 20%

EV4: Class and laboratory attendance and participation (AP).

EV5: Performance and quality of group work (TG).

EV6: Presentation and defence of the master's thesis.

BIBLIOGRAPHY

Basic:

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- Harvey, David. "El derecho a la ciudad". *New Left Review* [on line]. núm. 53, 2008, págs. 23-39 [Consultation: 07/07/2020]. Available on: <https://newleftreview.es/issues/53/articles/david-harvey-el-derecho-a-la-ciudad.pdf>.- Rueda, S. *Ecología urbana : Barcelona i la seva regió metropolitana com a referents*. Barcelona: Beta, 1995. ISBN 8470913573.
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- Cuchi, A. [et al.]. *Parámetros de sostenibilidad*. Barcelona: ITEC, Institut de Tecnología de la Construcción de Catalunya, 2003. ISBN 8478534611.
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Complementary:

- Canals, R.M. [et al.]. *Mitigació i adaptació local al canvi climàtic: catàleg de propostes* [on line]. Barcelona: Diputació de Barcelona, 2008 [Consultation: 15/01/2021]. Available on: http://www1.diba.cat/llibreria/Pre_1stDetail_Publicacions.asp?Opener=Diputacio&ID=40574. ISBN 9788498032888.



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RESOURCES

Hyperlink:

- <http://www.rtve.es/alacarta/videos/tres14/tres14-francesc-magrinya/733416/>-
<http://issuu.com/ciudadidea/docs/laciudadidea100503-mr>