URBAN MANAGEMENT

Bachelor in Architectural Studies BAS SEP-2023 UM-AS.4.M.A

Area Architecture and Design
Number of sessions: 15
Academic year: 23-24
Degree course: FOURTH
Number of credits: 3.0
Semester: 1º
Category: COMPULSORY
Language: English

Professor: **CEM KAYATEKIN**

E-mail: ckayatekin@faculty.ie.edu

Cem S. Kayatekin holds a Bachelor of Architecture from Auburn University, a Master of Architecture from Cornell University, and a Ph.D. in Architecture from the University of Oregon, completed under the tutelage of Howard Davis. He is the co-founder of Blue Dot Studio and runs the Urban Ecology Initiative. His teaching and research interests are focused on the overlaps of inclusivity, ecology, and sustainable development in the city.

cem.kayatekin@ie.edu

SUBJECT DESCRIPTION

This course offers an in-depth view into some of the challenges and pressures faced by contemporary cities, specifically focusing on the following topics:

1. Urban morphology
2. The 15-minute city
3. The contemporary housing crisis
4. Land-use zoning
5. Building Codes and Urban Planning Regulations
6. Blue-green infrastructure
7. Net-zero energy districts/cities
8. Positive energy districts
9. Low-carbon districts/cities
10. Smart cities
11. Regenerative urbanism

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Through this course, students will not only gain a deep understanding of the legal, socioeconomic, physical, ecological, political, etc., relationships at play within the complexities of the urban fabric, within urban policy, and within urban administration; they will also begin to form a practical and intellectual framework for attempting to navigate these various dominions of urban influence.

LEARNING OBJECTIVES

(Per Ministerial Decree EDU/2075/2010, 29 of July; and the official accreditation request for the Bachelor in Architectural Studies, July 2015; see BOCYL, 14 March 2018: p. 10477-10481)

2.1. BASIC AND GENERAL OBJECTIVES

The general objectives and skills that students will develop as a result of the learning process of this specific course are:

- CB1: Students have demonstrated knowledge and an understanding of a given area of study, building upon the foundation of secondary education, supported by advanced texts, and including aspects that engage the latest advances in their area of study.
- CB2: Students know how to apply their knowledge professionally to their work or vocation and possess the competencies that are often demonstrated through elaboration and defense of arguments and the resolution of problems within their area of study.
- CB3: Students can gather and interpret relevant facts (usually within their area of study) in order to make judgments that include reflection on relevant social, scientific, and ethical topics.
- CB4: Students can transmit information, ideas, problems, and solutions to both specialized and non-specialized audiences.
- CB5: Students have developed the necessary learning skills to continue their studies with a high degree of autonomy.
- CG6: Knowledge of the industries, organizations, regulations, and procedures needed in order to transform projects into buildings, and to integrate drawings into the planning process.
- CG7: An understanding of the relationship between people and buildings, and between buildings and their contexts, as well as the need to relate buildings and adjacent spaces to needs and to the human scale.

2.2. SPECIFIC COMPETENCIES

The specific objectives and skills that students will develop as a result of the learning process of this specific course are:

- CE36: Ability to categorize built and urban heritage and plan conservation efforts.
- CE40: Ability to develop functional programming for buildings and urban spaces.
- CE45: Ability to design and execute urban projects as well as those for urbanization, gardens, and landscape.
- CE46: Ability to apply urban planning regulations and ordinances.
- CE47: Ability to develop environmental and landscape studies, and environmental impact reports.
- CE55: Adequate knowledge of the relationship between cultural patterns and the social responsibilities of the architect.
- CE57: Adequate knowledge of sociology, theory, economics, and urban history.

- CE58: Adequate knowledge of the methodological foundations of urban, territorial, and metropolitan planning.
- CE59: Knowledge of civil, administrative, urbanistic, building and industry regulations relating to professional activities.
- CE62: Knowledge of the mechanisms of preparing and developing urban plans at all scales.

2.3. TRANSVERSE COMPETENCIES OF THE UNIVERSITY

The transverse objectives and skills that students will develop as a result of the learning process of this specific course are:

- CT2: Ability to exercise professional behavior in accordance with constitutional principles and ethical values of the respective profession.
- CT3: Manage unforeseen situations with the capacity to respond to changes within organizations.
- CT4: Use disciplinary knowledge to analyze and evaluate current situations.
- CT5: Integrate oneself into interdisciplinary and multicultural teams to achieve common goals in a context of diversity.
- CT6: Work actively at in an international context.

TEACHING METHODOLOGY

IE University teaching method is defined by its collaborative, active, and applied nature. Students actively participate in the whole process to build their knowledge and sharpen their skills. Professor's main role is to lead and guide students to achieve the learning objectives of the course. This is done by engaging in a diverse range of teaching techniques and different types of learning activities such as the following:

Learning Activity	Weighting	Estimated time a student should dedicate to prepare for and participate in
Lectures	20.0 %	15.0 hours
Discussions	10.67 %	8.0 hours
Exercises in class, Asynchronous sessions, Field Work	0.0 %	0.0 hours
Group work	13.33 %	10.0 hours
Individual studying	56.0 %	42.0 hours
TOTAL	100.0 %	75.0 hours

PROGRAM

SESSIONS 1 - 2 (LIVE IN-PERSON)

Discussion partially structured around the following lecture (please watch before class):

Discussion based around the concept of Urban Morphology and urban diversity. Not mandatory, but feel free to read the attached article as an introduction to some of the overarching concepts.

Multimedia Material: Inhabitable Infrastructures (Youtube)

Article: Urban Morphology and Design: Introduction (Built Environment (1978-), 37(4), 380–392. 2011) (CED))

SESSIONS 3 - 4 (LIVE IN-PERSON)

Sustainability Topics:

- Environment
- Governance
- Social Challenge
- Economic Development

Discussion based around the concept of the 15-minute city. Not mandatory, but feel free to read the attached article as an introduction to some of the overarching concepts.

Discussion based around the global housing crisis. Not mandatory, but feel free to read the attached article as an introduction to some of the overarching concepts.

Article: 15-Minute City: Decomposing the New Urban Planning Eutopia (Sustainability 13, no. 2: 928. 2021) (CED))

Article: The global urban housing affordability crisis (Urban Studies, 54(14), 3159–3177. 2017) (CED))

SESSIONS 5 - 6 (LIVE IN-PERSON)

Sustainability Topics:

- Governance
- Social Challenge

Discussion based around the concept of zoning (Euclidean, Form-Based, and Performance-Based). Not mandatory, but feel free to read the attached article as an introduction to some of the overarching concepts.

Discussion around the concept of Blue-Green Infrastructure. Not mandatory, but feel free to read the attached article as an introduction to some of the overarching concepts.

Article: Race, Ethnicity, and Discriminatory Zoning (American Economic Journal: Applied Economics, 8(3), 217–246. 2016) (CED))

Article: A comprehensive review of blue-green infrastructure concepts (International Journal of Environment and Sustainability, 6(1). 2017) (CED))

SESSIONS 7 - 8 (LIVE IN-PERSON)

Discussion around the concept of Building Codes and Urban Planning Regulations, specifically focusing on how diversities of uses and functions are supported or hindered.

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Discussion around the concept of Zero-Energy Districts. Not mandatory, but feel free to read the attached article as an introduction to some of the overarching concepts.

Article: The Zero-Energy Idea in Districts: Application of a Methodological Approach to a Case Study of Epinlieu (Mons) (Sustainability 11, no. 17: 4814. 2019) (CED))

SESSIONS 9 - 10 (LIVE IN-PERSON)

Sustainability Topics:

- Environment
- Economic Development

Discussion around the concept of Positive Energy Districts. Not mandatory, but feel free to read the attached article as an introduction to some of the overarching concepts.

Discussion based around the concept of Low Carbon Cities / Districts. Not mandatory, but feel free to read the attached article as an introduction to some of the overarching concepts.

Article: Positioning Positive Energy Districts in European Cities (Buildings 11, no. 1: 19. 2021) (CED))

Article: Low Carbon Urban Transitioning: From Local Experimentation to Urban Transformation? (Sustainability 7, no. 3: 2437-2453. 2015) (CED))

SESSIONS 11 - 12 (LIVE IN-PERSON)

Sustainability Topics:

- Governance

Discussion based around the concept of Smart Cities. Not mandatory, but feel free to read the attached article as an introduction to some of the overarching concepts.

Discussion around the concept of Regenerative Urbanism. Not mandatory, but feel free to read the attached article as an introduction to some of the overarching concepts.

Article: How do we understand smart cities? An evolutionary perspective (Cities, 67, 43-52. 2017) (CED))

Article: Urban fabrics and urban metabolism–from sustainable to regenerative cities (Resources, Conservation and Recycling, 132, 218-229. 2018) (CED))

SESSIONS 13 - 14 (LIVE IN-PERSON)

Discussion based around the following lecture (please watch before class):

Final review.

Multimedia Material: Food City (Youtube)

SESSION 15 (LIVE IN-PERSON)

Final Examination

EVALUATION CRITERIA

This course will involve the following evaluation methods:

- SE1: Attendance and Active Participation
- SE2: Submission and/or Presentation of Group Projects
- SE3: Submission and/or Presentation of Individual Projects
- SE4: Evaluation of Group Exercises
- SE5: Evaluation of Individual Exercises
- SE6: Exams

These are to be weighted as follows:

criteria	percentage	Learning Objectives	Comments
Final Exam	80 %		Final exam covering all course content, short answer format (3-4 lines at most!)
Attendance	10 %		Attendance
Group Presentation	10 %		Students (groups of 3-4) will prepare AI generated imagery, showing how Cuatro Torres could be reformulated / reshaped around some of the subjects discussed in class. This is due prior to Session 13. Student should prepare 10 images in total, tackling 5 different subjects.

RE-SIT / RE-TAKE POLICY

The second enrollment will take place at the summer date assigned by the course-planning department, and will be in person, as per university policy.

BEHAVIOR RULES

Please, check the University's Code of Conduct here. The Program Director may provide further indications.

Please note, laptops are not to be used during class. And, as per the IE Code of Conduct: IE University implements a "Phone-free Classroom" policy and, therefore, the use of phones, tablets, etc. is forbidden inside the classroom. Failing to abide by this rule entails expulsion from the room and will be counted as one absence.

ATTENDANCE POLICY

Please, check the University's Attendance Policy [here](). The Program Director may provide further indications.

ETHICAL POLICY

Please, check the University's Ethics Code [here](). The Program Director may provide further indications.