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Minimizing the influence of coronavirus in a built environment

(MICROBE)

IO1/A5. Development of the MICROBE personalized MOOCs
content and teaching materials

Project No: 2020-1-LT01-KA203-078100

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University of Granada and FIU: Construction Management MOOC course

Course title in Spanish

Como la estructura de las ciudades y hogares afecta a nuestro estado mental

Course title in English

How the structure of cities and homes affects our state of mind

ECTS credits

6.0

Assessment form

Examination

Teaching semester

Winter

Course aims

Considering that the mental state of people can lead to the development of confinement-related illnesses, it's fundamental on the one hand redistributing spaces in the public and private spaces, emphasising green areas, on the other hand give the chance to the citizens to safely socialising, living and taking back the public spaces, by enabling them to host safe cultural events. Thus redesign of public and private spaces will make society feel better mentally.

To give an overview of the management of cities, especially in terms of the housing distribution, and of the design of indoor and outdoor public spaces as location hosting safe and usable cultural events and exhibitions.

Moreover the course aims at:

- making visible and meeting the need for public space and green areas, also in private housing
- describing the meaning of green spaces and how green spaces affect people's state of mind
- explaining how people's moods suffered during the pandemic affect us.

The courses also encourages a "bounce forward" approach and designing safe cultural events and making public spaces (both indoor and outdoor) usable for citizens, students, and tourists in a post-pandemic era.

This approach relies on a more sustainable pathway from an economic, social and environmental point of view.

Besides students, possible targets of this course are represented by architects, urban planners, health & safety managers and cultural events designers.

Learning outcomes in the course

The student will be able to:

- Understand the importance of green spaces and their benefits to society.
- Understand the impact of mental illnesses generated by household distributions. Examples of illnesses are anxiety, depression, and generation of illnesses due to the decrease of white blood cells.
- Discuss and propose a vision for cities on the future of the anti-virus built environment.
- Analyse possible solutions with an interdisciplinary approach: building technology, digital transformation, psychology, medicine, history, chemical engineering, materials engineering, computer science.
- understand spatial aspects to be taken into consideration when designing public indoor and outdoor spaces devoted to cultural events, according to the tangible and intangible values and role of the different services they can offer
- Analyse new needs concerning gathering together to enjoy cultural initiatives
- Devise innovative ways for a more efficient and effective use of cultural spaces
- Identify strategies to involve stakeholders
- Experiment a participatory processes training
- Detect the emotions of the people enjoying the built spaces



Brief description of the course

This course aims to show the importance of having green spaces in housing and cities and of enabling people to attend safely cultural events both in indoor and outdoor spaces.

These green spaces improve people's mood because living in much urbanised spaces causes people's mood to decrease and in extreme cases, generate health problems. Green spaces not only improve people's mood, but also improve the environment, mainly because plants absorb CO2 and give off oxygen. This plus generated by green spaces allows citizens to improve their state of health, as the air they breathe is of better quality than if there are no green areas. On the other hand, green spaces in cities and homes should be understood as spaces to improve people's quality of life and not as plots of land where meters are lost in order to build buildings.

Pandemic has also emphasized the importance of safely socialising, enjoying public spaces and attending cultural events, thus becomes very important to understand the Impact of Covid-19 pandemic on the design and organization of the indoor and outdoor public spaces.

Strategies to cope with information and communication actions concerning public spaces events.

Study literature

Domingo Santos, J., & Moreno Álvarez, C. Paisaje y memoria en el desarrollo de la ciudad contemporánea.

Daytime study: weekly hours

4.0

lectures

3.0

exercises

1.0

Session-based study workload (in a semester): lectures

1.0

Structural unit teaching the course

Department of Architecture and Department of Psychology

Grading methods	Oral exam			
Grading criteria	0	Has not obtained basic knowledge.		
	1	Has not obtained sufficient basic knowledge.		
	2	<table border="1"> <tr> <td>Basic criteria</td> <td> <ul style="list-style-type: none"> • Knowledge of basic environmental • Knowledge of basic building concepts • Awareness of the importance of creating green spaces in cities and homes </td> </tr> </table>	Basic criteria	<ul style="list-style-type: none"> • Knowledge of basic environmental • Knowledge of basic building concepts • Awareness of the importance of creating green spaces in cities and homes
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3	<table border="1"> <tr> <td>Additionally to previous</td> <td>Carry out the exercises proposed to the students in class.</td> </tr> </table>	Additionally to previous	Carry out the exercises proposed to the students in class.	
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	4	Additionally to previous	Correctly argue the questions asked by the teacher.
	5	Additionally to previous	Analyse and read literature related to the course
Allowance to grading	Homeworks have been defended and presented		
Forming the final grade	Homework can be used during the exam; in the exam, the student has to do a study and the professor has to answer the professor's questions.		