ONLINE EDUCATION: TEACHING IN A TIME OF CHANGE

• Paper / Proposal Title:

The architectural design process from reflexive – critical thinking. A methodological model for Undergraduate Research Project

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• Abstract (300 words):

From the middle XX century, design theory has studied and recognized the interdependence between theoretical research and practical research in projectual design (Ariza, 2020). Hereupon, today’s professional world needs appropriate, efficient, creative, and innovative outcomes as a response to the diversity of societal issues. This means education needs to be based in encouraging reflexive and critical skills in future professionals. These skills are acquired through inquiry-based learning, where research becomes the core element for that purpose. However, Architectural design workshops of diverse faculties of architecture have based their teaching strategies in an intuitive creative process, without promoting a reflexive – critical thinking. This situation has raised the production of decontextualized repetitive and erroneous responses to specific social phenomena.

It is in this regard that the proposed methodology has the objective to introduce the undergraduate students to the reflexive – critical thinking, which will allow them to address the urban architectonic design project from and through research,
acknowledging the nature of the problem, as well as the role and scope of architecture regarding to the identified problem.

Approaching a teaching methodology based on “the creative chaos with Theoretical and scientific database”, the architectural project is developed from a rationale design process, whose outcomes are: a personalized database obtained from the efficient management of scientific information, the construction of a collective database for each research line posed in the state of art, the design of a consistency matrix as a guiding instrument for the urban architectonic design project, and finally, a colloquium where the projects developed in each research line were presented to the faculty and to experts.

• Author(s) Biography (200 words each):

**Cinthya Lady Butrón Revilla**

Graduated from the Autonomous University of Barcelona (UAB) of the Master in interdisciplinary studies of environmental, economic and social sustainability - Industrial and Urban Ecology specialty. Architect graduated from the National University of San Agustín, Arequipa-Perú. At present Professor at the National University of San Agustín and Co-researcher in the research groups: "Smartcity - Arequipa" and "Emergency Urbanism in the Colca Valley". With experience and knowledge in Environmental Sustainability, Urban Mobility, Urban Planning, Risk Assessment, Architectural Design in Urban - rural spaces. I am part of the technical team of: “GEMOTT - Group of Mobility, Transport and Territory Studies in Barcelona- Spain” and of the “Elaboration of the Urban Planning Schemes for the Reconstruction of the Ichupampa and Achoma Population Centers of the Colca Valley - Peru.". Founding Member of" Collective Urbanism Cities "and" Estudio 11 Arquitectura "

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Master in Territorial Planning and Environmental Management from Universitat de Barcelona (UB), Spain. Architect graduated from the Universidad Nacional de San Agustín de Arequipa (UNSA). Currently Professor at the Faculty of Architecture and Urbanism at UNSA and Universidad Continental (UC). With professional performance in public local governments, design consulting, construction and investment projects as architect and as intern at TECHO (NGO) in Neuquén and Río Negro region, Argentina. She researches topics around housing rights, urban land policy and the collective production of public space with a gender perspective. In addition, she works as general coordinator and co-founder of CIUDADES urbanismo colectivo, a citizen initiative for social innovation and research.
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Edith Gabriela Manchego Huaquipaco

Master’s Degree in Transportation, Land and Urban Development from the Polytechnic University of Valencia(UPV), Spain. Architect graduated from the National University of San Agustín de Arequipa(UNSA), with the proposed “Rural Residential College in the Colca Valley”. Actually, she is professor at the Faculty of Architecture and Urbanism at the UNSA in the academic sections of urbanism and basic level architectural design. In addition she is advisor of undergraduate research projects, related to Urban Mobility and Informal Commerce. In addition, she is co-researcher in the research group "Emergency Urbanism in the Colca Valley". On the other hand, she is co-founder of CIUDADES urbanismo colectivo, a citizen initiative for social innovation and research.