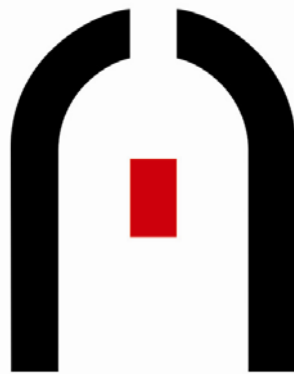


FACULTY OF ARCHITECTURE



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RESEARCH CENTRE IN ARCHITECTURE AND URBAN DESIGN

GENERAL PRESENTATION

The concept of sustainable urban development is nowadays a new dimension of the urban design. It involves in an integrated way different levels of the society in the planning of the new urban areas in connection with the historical protected zones. This tendency is part of the specific contemporary answers to the globalization challenges. The relation between the built heritage and the development of the cities make necessary a good knowledge of the urban history, of the society evolution and of all tendencies in the contemporary urban development.

Architectural form is another research topic considering the basic fundamentals of today's man made environment in relation with nature. The possibilities to adapt already existing tendencies to contemporary phenomena related to technology and digital techniques, but also with ecology, are known as sustainable (self sustained) development. In this kind of approach form is both a generating source and final result, dominating architectural design.

OBJECTIVES

The main objective of the research is to find the characteristics of the urban development and the particularities of the city zones and ensembles. Based on the analysis, another preoccupation is to propose viable solutions for the urban planning in the same time with the integration and the rehabilitation of the built heritage.

The study of the characteristics of the contemporary architecture and its development tendencies in order to propose suitable solutions for the design of the built environment is another main objective of the researchers.

There is also important to find how the contemporary architecture may be inserted in the existing natural and built sites and how could it to transform them in the benefit of their quality.

MAIN RESEARCH FIELDS

- History of urbanism and its applications in contemporary design.

Keywords: urban design, urbanism, settlement, city, evolution

- Urban analysis and planning. Urban studies for sustainable development.

Keywords: urban areas, territory, sustainable development, urban network

- Integrated protection of the historical zones in a sustainable urban development.

Keywords: built urban areas, historical zones, sites and zones, rehabilitation

- Historical and critical evaluation of modern architecture.

Keywords: space, functionalism, modular, environment, typology

- Characteristics of the Architecture in the second half of the 20th century

Keywords: modernism, geometric shape, international style, rationalism.

- Forms, symbols and representation methods.

Keywords: symbol, architectural form, geometry, art, alternative form

Researches in URBANISM AND TERRITORIAL PLANNING

FIELD DESCRIPTION

Researches of the urban structures and analysis of the human settlements in order to create new built zones and to propose their extension or transformation.

Studies to establish objectives and principles in urban planning.

Studies to detect the relation between the human needs and behaviour and the setting development.

Researches in urban evolution of cities, villages and territory.

ACTIVITIES

Researches to give solutions for the complex needs of the urban system in order to propose the territorial urbanization respecting the ecological criteria.

Solutions to find new directions of acting at the urban level.

Realization of studies of territorial urbanization and different categories of urban plans.

RESEARCH TEAM

Prof.dr.arh. Teodor Octavian Gheorghiu

Prof. dr. arh. Smaranda Bica

Assoc. prof.dr.arh. Radu Radoslav

Arh. Radu Botis

RESULTS**PUBLISHED PAPERS**

1. Radoslav, R., *Timisoara 2030 – A Metropolitan Area of European Interest*, in „Scientific Bulletin of the „Politehnica” University–Civil Engineering and Architecture”, 52 (66), nr. 1, Timisoara, 2008, ISSN 1224-6042, pp. 59-69.
2. Radoslav, R., *The Necessity to Establish Objective Criteria in Urban Planning*, in „Scientific Bulletin of the „Politehnica” University – Civil Engineering and Architecture”, 53 (67), nr. 2, Timisoara, 2008, ISSN 1224-6042, pp. 15-25.
3. Radoslav, R., *The Territorial Urbanization of Metropolitan Area respecting the Ecological Balance*, in „Scientific Bulletin of the „Politehnica” University – Civil Engineering and Architecture”, 52 (66), nr. 1, Timisoara, 2008, ISSN 1224-6042, pp. 53-58.
4. Bica, S., Rosiu, L., *The Dramatic Increase of Car Traffic in and Around Romanian Cities after 1990 – The Case of Timisoara*, The CEU Congress, Climate Change and Urban Design, 14-16 sept., Oslo, 2008, Selected Conference Papers, pp.394-398.

CONTRACTS

1. Contract nr.07198/2008 BC, *The Territory Plan of the Hunedoara District*.
Value: 80,00 RON
Beneficiary: SC QUANTUM LEAP SA for the District Council of Hunedoara

INTERNATIONAL PROGRAMMES

1. Leonardo da Vinci - ESUA project: *The European School of Urbanism and Architecture*

Director: Folkeuniversitetet Norway

Partners: Technische Universitat Berlin, Stadt Gladbeck, KTH Royal Institute of Technology, INTBAU Venice

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Researches in HISTORY OF URBANISM AND ITS APPLICATIONS IN CONTEMPORARY DESIGN**FIELD DESCRIPTION**

Historical researches of human settlements in order to detect the rules of urban development.
Studies of urban structures, typologic and morphologic elements, particularities of the urban evolution.
Researches in architectural and urban history of the evolution of cities and villages in the western side of Romania.
Inventory of the valuable architecture in Banat in order to propose methods of their integration in the contemporary life.

ACTIVITIES

Archives investigations, research in the territory, analytical studies.
Solutions to increase the quality of urban projects.
Studies for an inventory of protected areas.
Historical urban studies for the projects of urban planning.

RESEARCH TEAM

Prof.dr.arh. Teodor Octavian Gheorghiu
Ass.arh.Catalina Bocan
Ass.arh. Cristian Blidariu
Arh. Valentin Capotescu

RESULTS**BOOKS**

Gheorghiu, T.O., *The Rural Settlement in the Zone of Banat-Crisana*, Eurobit, Timisoara, 2008, ISBN 978-973-620-375-6.

PUBLISHED PAPERS

1. Gheorghiu, T.O., *Buzau - Short Urban and Architectural Diagnosis*, in „Arhitext Design” 41-42, Bucuresti, 2008, ISSN 1224-886X, pp.26-31.
2. Gheorghiu, T.O., *A Diagnosis of the Historical Substance of the Buzau Town* in „Transsylvania Nostra” nr. 1-2, Cluj, 2008, ISSN 1842-5631, pp. 53-61.
3. Gheorghiu, T.O., *The Medieval Town in Moldavia and Vallachia, Space of Innovation for the Religious Architecture until the XIXth Century*, at CIOR Conference „The Town and the Church”, 26-28 sept., Oradea, 2008.

CONTRACTS

1. Contract nr. 149/2008, *Historical and Urban Study of the Town of Ciacova in order to Delimitate and Define the Historical Centre*

Value: 29,750 RON
Beneficiary: The Council of Ciacova

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**Researches in HISTORICAL MONUMENTS
 AND PROTECTION OF THE BUILT
 HERITAGE**

FIELD DESCRIPTION

Study of the buildings and urban zones with a high architectural and historical value.

Detect the best forms and possibilities of protection. Search for historical monuments and sites in the county of Banat.

Colaboration with institutions and organisations involved in the protection of the built heritage.

ACTIVITIES

Archives of information about the buildings and zones of architectural interest – Inventory of historical monuments

Analyse of the damages produced by different causes to historical monuments and sites.

Proposals of rehabilitation and prevention.

Projects of restoration and conservation.

RESEARCH TEAM

Prof.dr.arh. Smaranda Bica
 Assoc.prof.dr.arh. Liliana Roșiu
 Ass.arh. Alfred Schwalie
 Arh. Doina Antoniu
 Arh. Diana Belci

RESULTS**PUBLISHED PAPERS**

1. Roșiu, L., Bica, S., *Principles of Conservation or Imported Models in the Heritage Practice of Timisoara and Bucharest*, IXth International CICOP Conference „Rehabilitation of the Architectural Heritage”, Sevilla, 2008, Conference Papers, II, ISBN 978-84-612-3459-Z, pp. 327-332
2. Rosiu, L., *The Built Heritage of Baile Herculane, Degradation Forms and Tendencies of Intervention*, at The IV International workshop for Vilegiatura Architecture, 9-10 june, Baile Herculane, 2008
3. Roșiu, L., *Churches in Banat in the last three Centuries – Typology and Influences in the Urban Structure*, at CIOR Conference „The Town and the Church”, 26-28 sept., Oradea, 2008.

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**Researches in HISTORICAL AND CRITICAL
 EVALUATION OF MODERN ARCHITECTURE**

FIELD DESCRIPTION

Study of the sources of modern architecture in relationship with a critical overview of the contemporary tendencies.

ACTIVITIES

Theoretical contributions to the theory of architecture and in the analysis of the contemporary architectural development.

Projects of architecture.

RESEARCH TEAM

Assoc. prof. dr. arch. Vlad Gaivoronschi
 Assoc. prof. dr. arch. Ioan Andreescu
 Assist. Arch. Marius Miclăuș
 Assist. Arch. Marius Harta
 Assist. Arh. Romeo Szorad

RESULTS**BOOKS**

1. Andreescu, I., Gaivoronschi, V., *(Post)modern Discussions of Modern Architecture*, Arhitext Design Foundation, 2008, ISBN 978-973-85482-9-9

PUBLISHED PAPERS

2. Andreescu, I., Gaivoronschi, V., *Office of Architecture 2007*, Igloo nr.75, 2008, ISSN 1583-7688, pp. 36-51
3. Gaivoronschi, V., *City Business Centre*, „Igloo” nr. 75, 2008, ISSN 1583-7688, pp. 52-62
4. Gaivoronschi, V., *Dynamic Sistem*, „Arhitext Design” nr. 2, 2008, ISSN 1224-886X, pp. 108-119
5. Gaivoronschi, V., *City Business Centre*, in „Offices in Romania”, ISBN 978-973-88404-3-0, pp. 12-21
6. Andreescu, I., Gaivoronschi, V., *Andreescu & Gaivoronschi Office of Architecture* in „13 Offices of Architecture”, ISBN 978-973-88404-8-5, pp. 10-21
7. Gaivoronschi, V., *Structural Development – City Business Centre, Timisoara*, „Arhitectura” nr. 65, pp. 74-81

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Researches in FORMS, SYMBOLS AND REPRESENTATION METHODS**FIELD DESCRIPTION**

Study of the relationship between the architectural form and its structural and functional determination.

Search to detect the expressive qualities of the architectural form.

ACTIVITIES

Theoretical contributions in the design of urban environment. Application in architecture, urban and interior design.

RESEARCH TEAM

Prof. dr. arh. Cristian Dumitrescu
 Assist. Vlad Ardeleanu
 Assist.arh. Claudiu Silvășan
 Assist.arh. Erica Dudas
 Assist. dr. Bogdan Oprescu
 Assist. arh. Razvan Oprita

RESULTS**BOOKS**

1. Dumitrescu, C., *The Geometry of the Architectural Forms*, Ed. „Politehnica”, Timisoara, 2008, ISBN 978-973-625-745-2
2. Dumitrescu, C., *The Magic Cube, Exercices of Technical Design and Geometric Representations*, Ed. „Politehnica”, Timisoara, 2008, ISBN 978-973-625-063-6

PUBLISHED PAPERS

Bica, S., Oprescu, B., *The Architecture of Spaces Accomodating Dental Care Facilities*, International Conference: „Interdisciplinary Approach to Present Dental Medicine”, 28 june, 2008, in „Abstract Journal” I, Issn1844-4903, and „Medicine in Evolution” nr. 3, ISSN 1454-8224

INTERNATIONAL PROGRAMMES

Project CNMP – PNCDI 2 nr. 91/022/2007, *Ergoengineering of the work place – Applications in dental medecine*

Director: Faculty of Mechanical Engineering

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