FACULTY OF ARCHITECTURE

Traian Lalescu Street, Nr. 2A
300223 – Timişoara, Romania
Tel: +40-256-404021
Fax: +40-256-404020
E-mail: deparhitect@arh.upt.ro
Web: www.arh.upt.ro
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 fundaments 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 SUSTAINABLE TERRITORY DEVELOPMENT

FIELD DESCRIPTION

The laboratory proposes an integrated approach on urban development through integrated urban development programs for the city as a whole and to define realistic development goals for the urban area and a vision for the treatment of the city. These principles integrate the three main converging directions of research: spatial development, territorial planning and sustainable development which permit a holistic approach, needing knowledge from the architectural, planning, constructions and construction materials, energetic and telecommunication, restoration, natural and constructed patrimony conservation, transportation, social mobility, economic development, hydromechanics, natural environment protection domain, etc.

This research field is important to create and provide high quality public spaces, to modernise the infrastructure network and to rise the energetic efficiency, to promote a cheap and efficient urban transportation system.
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.
Urban plans used by the local administration for the development of settlements and territory.
Territorial development plans (PATN, PATJ, PATZI), general development plans (PUG), area development plans (PUZ), area rehabilitation, restoration and re-functioning.
Consultant and technical expertise in territorial development.
Projects of landscape design.
RESEARCH TEAM
Prof.dr.arh. Teodor Octavian Gheorghiu
Prof. Dr. arh. Smaranda Bica
Assoc. prof.dr.arh. Radu Radoslav
Ass. Arh. Bogdan Demetrescu
Arh. Ana Branea
Arh. Marius Gaman

RESULTS
BOOKS
1. Radoslav, R., Student Trends, nr 2, 2008-2009
2. Gheorghiu, T.O., Guideline Local Urbanism Regulation for Berzasca, Ed. Altip, 2010,

PUBLISHED PAPERS
1. Gheorghiu, T.O., The Rural Urbanism in the Banat District of the 18th and 19th Centuries,
2. Gheorghiu, T., From the Danube to the Black Sea – an Adventure of the Administrative Void,
   in „Urbanismul” – New Serie, 5-6, 2010, ISSN 1844-802X, pp. 51-57.
3. Bica, S., Rosiu, L., Bocan, Traffic Calming Street Layout Proposal for the City Centre of
   Timisoara, BENA Conference „Global and Regional Environmental Protection”, vol II, Timisoara,

CONTRACTS
   Value: 20,00 RON

INTERNATIONAL PROGRAMMES
1. COST: TU 0701, project: Improving the quality of suburban buildin stock.
   Beneficiary: EU RTD FRAMEWORK PROGRAMME
   Partners: Faculty of Architecture - University of Ferrara, Ministry of Environment - Finلندا, Porto
   University - Portugal, The Council of Timisoara
   CONTACT PERSON
   Assoc. prof. dr. arh. Radu Radoslav
   Faculty of Architecture
   Str. Traian Lalescu 2A
   Tel: +40-256-404023
   Fax: +40-256-404020
   E-mail: raduradoslav@gmail.com

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.
Studies to establish the main 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.
Researches in architectural and urban history of the evolution of cities and villages in the western side of Romania.
Researches to detect the characteristics of the architecture in the western part of Romania during the three last centuries.

ACTIVITIES
Archives investigations, research in the teritory, analytical studies.
Inventory of the valuable architecture in Banat in order to propose methods of their integration in the contemporary life.
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
Prof. dr. arh. Smaranda Bica
Ass. arh. Catalina Bocan
Ass. arh. Mirela Szitar
Ass.arh. Cristian Blidariu
RESULTS

BOOKS

PUBLISHED PAPERS

CONTRACTS
Beneficiary: The Council of Berzasca

CONTACT PERSON
Prof.dr.arh. Teodor Octavian Gheorghiu
Faculty of Architecture
Str. Traian Lalescu, nr.2A
Timișoara, Romania
Tel: +40-256-404025
Fax: +40-256-404020
E-mail: teodor.gheorghiu@arh.upt.ro

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.
Collaboration with institutions and organisations involved in the protection of the built heritage.
Study of civil, industrial and vernacular buildings with high architectural and historical value.

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.
Historical studies for the Territorial development plans (PATN, PATJ, PATZI,), general development plans (PUG), area development plans (PUZ) which contain protected areas.
Expertise of different types of damages asked in restoration projects, projects of restoration and conservation.

RESEARCH TEAM
Prof.dr.arh. Smaranda Bica
Assoc.prof.dr.arh. Liliana Roşiu
Ass.arh. Alfred Schwalie
Ass. Arh. Mihai Donici
Ass. Arh. Romeo Szorad
Arh. Doina Antoniuc

RESULTS

PUBLISHED PAPERS


**CONTACT PERSON**

Assoc. prof. dr. arh. Liliana Roșiu  
Faculty of Architecture  
Str. Traian Lalescu 2A  
Tel: +40-256-404023  
Fax: +40-256-404020  
E-mail: liliana.rosiu@arh.upt.ro

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

**FIELD DESCRIPTION**

Study of the sources of modern architecture in relationship with a critical overview of the contemporary urban planing.  
Search of the characteristics and qualities of the contemporary architecture and its development tendencies and its relation with the built environment.  
Study of the contemporary tendencies of the urban architecture.  
Stability studies for steel structures in special conditions.

**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  
Lect. dr. ing. Ioan Mircea Cristiți  
Assistant. Arch. Marius Miciiță  
Assistant. Arh. Erica Dudas  
Assistant. Arch. Marius Harta  
Ass. Arh. Toma Claudiu

**RESULTS**

**BOOKS**


**PUBLISHED PAPERS**


CONTRACTS
1. Contract TE_38, CNCSIS-TE The Stability of Metallic Frames with Elements with Variable Section
Value: 741.06 RON
Beneficiary: CNCSIS - UEFISCSU

CONTACT PERSON
Assoc. prof. dr. arch. Vlad Gaivoronschi
Faculty of Architecture Timișoara, Romania
Str. Traian Lalescu nr. 2A
Tel: +40-256-40421
Fax: +40-256-40420
E-mail: vlad.gaivoronschi@arh.upt.ro