

The list of supervisors at the Faculty of Architecture

dr hab. arch. inż. arch. Magdalena Belof magdalena.belof@pwr.edu.pl

- **Planning Theory and Practice:**
 - a. Theoretical issues related to history and theory of planning in socio-economic perspective.
 - b. Comparative studies (including international perspective) related to planning system, methods and approaches.
 - c. International planning cooperation.
- **Urban Planning and Design**
 - d. Contemporary and innovative approaches to urban planning and design.
 - e. Studies on urban structure elements and urban transformation.
 - f. Human dimension of urban planning.
 - g. Lower Silesia in planning and urban design perspective.

dr hab. arch. Roman Tarczewski roman.tarczewski@pwr.edu.pl

- **Contemporary Architecture:**
 - a. Biomimetic in architectural design and analysis of structural systems.
 - b. Shaping of structural systems in contemporary architecture.
 - c. Design of unique architectural forms.
 - d. Design by research.

prof. dr hab. inż. arch. Marzanna Jagiello, dr inż. arch. Tomasz Głowacki
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- **Contemporary Architecture:**
 - a. Theory of architectural composition.
 - b. Pro-ecological housing architecture.
- **Landscape design**
- **Theory and history of architecture and art**
 - a. Connections of architecture with fine arts.

prof. dr hab. inż. arch. Rafał Czerner, dr inż. arch. Barbara Widera
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- **Theory and history of architecture and art:**
 - a. Architectural theories of 20th and 21st century.
 - b. Correlations between architecture and fine arts including fashion and costume design.
 - c. Relations between nature and architecture.
- **Contemporary architecture**
 - a. Contemporary architecture and its creators.
 - b. Sustainable development in architectural practice.

- c. Bioclimatic architecture.
- d. Pro-ecological design.
- e. Biological architecture.
- f. Biomimetics and bioinspiration in architecture.
- **Regional architecture**
 - a. Lessons from vernacular architecture in contemporary building.
 - b. Natural ventilation / cooling / heating techniques in regional architecture.
- **Landscape design**
 - a. Blue and green areas in correlation with the built environment.

dr hab. inż. arch. Jacek Kościuk jacek.kosciuk@pwr.edu.pl

- **Theory and history of architecture and arts.**
 - a. History of ancient and early medieval architecture in the eastern part of the Mediterranean Basin.
 - b. History of pre-Columbian architecture in South America.
 - c. Ancient buildings technologies and materials.
- **Research, conservation and revalorisation of architectural monuments.**
 - a. Non-invasive methods in research and reconstruction of historic buildings.
 - b. Terrestrial and aerial 3D laser scanning.
 - c. Terrestrial and aerial RGB and multispectral photogrammetry.
 - d. Virtual Reflectance Transformation Imaging and Polynomial Texture Mapping in rock art.
 - e. Virtual 3D reconstruction and 3D printing in research and reconstruction of historic buildings.
 - f. Metrological studies on ancient architecture.
 - g. Conservation and protection of archaeological sites and ancient or early medieval architecture in the eastern part of the Mediterranean Basin.
 - h. Conservation and protection of historical buildings and archaeological sites in South America.
- **Design methods**
 - a. Parametric design.

dr hab. inż. arch. Krystyna Kirschke, dr inż arch. Andrzej Legendziewicz
krystyna.kirschke@pwr.edu.pl; andrzej.legendziewicz@pwr.edu.pl

- **Theory and history of architecture and arts.**
 - a. Medieval, renaissance and baroque residences in Lower Silesia.
 - b. Medieval sacred architecture in Lower Silesia.
 - c. Modern window and door woodwork (from the 16th to the beginning of the 20th century).
- **Research, conservation and revalorisation of architectural monuments**
 - a. Restoration of Old Town urban complexes in Lower Silesia and Poland after 1989.
 - b. Methods of exposition of the underground relics of monuments buildings.
 - c. Ways of exposure of historical stratifying and details on facades and interiors.

dr hab. inż. Arch. Marcin Brzezicki marcin.brzezicki@pwr.edu.pl

- **Contemporary architecture**
 - a. factory of the future, Industrie 4.0, vertical farms, robotics, modularization, industrial architecture, spatial and functional analysis, lightweight cladding design, analysis of factors influencing the evolution of industrial buildings;
 - b. prefabrication, standardization, high-tech prefabrication (standardization of the production process resulting in a unique product), 3d print on an architectural scale;
 - c. architecture for the automotive industry; car dealership, automobile repair shops, automatic parking (architectural aspects);
 - d. bionics and biomimetics in architectural design, natural patterns in architectural design, architecture inspired by nature;
 - e. application of glass in architecture, double glazed façade, double leaf façade, greenhouse glazing, state-of-the-art coating technologies, transparency in architecture, adaptive façades (façade which adapt to environmental conditions).

prof. dr hab. inż. arch. Ewa Łuzyniecka ewa.luzyniecka@pwr.edu.pl

- **Interdisciplinary research on historic architecture using modern analytical methods**

dr hab. inż. arch. Wojciech Brzezowski, em. prof. nadzw. PWr.

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- **Research, conservation and revalorisation of architectural monuments**
- **Theory and history of architecture and art**
 - a. History of gardens
- **Research, conservation and revalorisation of architecture**
 - a. Greenery in the historic space