1. PROGRAM FACTS

Study Level: Postgraduate  
Study Mode: Full Time  
Course Profile: Academic  
Course Domain: Technological Sciences combined with Fine Arts  
Course Length: 4 semesters  
Number of ECTS Credits Required for Graduation: 120  
Areas of Academic Study and Academic Disciplines Evaluated by Learning Outcomes:  
- Area of Academic Study: Technological Sciences  
  - Academic Discipline: Technology  
  - Field of Study: Architecture and Urban Sciences  
and  
- Area of Academic Study: The Arts  
  - Academic Discipline: Fine Art  
  - Field of Study: Fine Art  
Degree Awarded upon Completion: Master of Architecture (M. Arch)

2. FURTHER EDUCATION AND CAREER OPPORTUNITIES

Students who complete our program are qualified to work in architectural and urban design firms, local and national government agencies, science and research institutes, research and development centers, and consulting firms. Students may also progress to PhD studies.

3. PROGRAM OVERVIEW AND OBJECTIVES

Students demonstrate knowledge and skills in the following capacities:  
- architectural design, urban design, conservation, and spatial design;  
- history and theory of architecture, urban theories, fine arts, engineering, and humanities;  
- shaping our environment, with a particular emphasis on relations between people, architectural objects and surrounding spaces;  
- obeying procedures for designing architectural objects, which involves taking into account a number of pertinent social factors;  
- solving a range of problems (functional, practical, construction, structural, engineering and technological), at a level that guarantees safety and comfort of people who will use a given architectural object, including the disabled;  
- obeying technical and construction regulations and procedures, economics of design, realization and use of architectural objects;  
- organizing investment processes as well as integrating plans with planning designs both in Poland and the EU countries.

Upon graduating from the program, students have an understanding of the social role of the architect and their impact on the quality of the environment. They should follow the ethical code of conduct.
Our graduates are prepared to:
- launch their own practice in the field of architectural and urban design;
- acquire professional qualifications required by law;
- perform independent functions in the building sector (having acquired right qualifications), design and manage construction works in the field of architecture, coordinate multidisciplinary project teams, manage architectural and urban planning firms, set up own businesses, or undertake research work.

4. LEARNING OUTCOMES

On completion of the M.Arch Architecture and Urban Studies program, students should be able to demonstrate the following subject knowledge, practical subject skills and social competencies:

SUBJECT KNOWLEDGE

- Students demonstrate an extensive and deep knowledge of architectural design, comprising the following issues:
  - knowledge of advanced theories,
  - knowledge of principles of architectural design,
  - thorough knowledge of CAD technologies for architectural design.
- Students demonstrate an extensive and deep knowledge of urban design, comprising the following issues:
  - knowledge of advanced theories,
  - knowledge of principles of urban design,
  - thorough knowledge of CAD technologies for urban design.
- Students demonstrate knowledge of spatial planning and regional development, comprising the following issues:
  - knowledge of general problem issues in spatial planning,
  - knowledge of general problem issues in regional development,
  - knowledge of principles of local and national land management policies.
- Students demonstrate knowledge of conservation and revitalization of heritage sites, comprising the following issues:
  - conservation of architectural historic objects,
  - conservation of historic urban complexes,
  - conservation of cultural landscape.

PRACTICAL SUBJECT SKILLS

- In the area of architectural design, students are able to:
  - gather starting materials for design,
  - create functional utility programs of designed objects
  - create architectural designs and land-use plans, planning for architecture surrounding designed buildings, in line with technical, functional, aesthetic and cultural requirements;
  - solve functional, practical, construction, structural and technological problems, at a level that guarantees safety and comfort of people who will use a given architectural object, including the disabled.
- In the area of urban design, students are able to:
  - carry out preliminary research into starting materials,
  - analyze building conditions, synthesize facts and formulate interdisciplinary conclusions,
  - design urban complexes,
- shape our environment, taking into account the relations between people, architectural objects and surrounding space.

- In the area of spatial planning and regional development, students are able to:
  - collect interdisciplinary data,
  - formulate problem issues relevant to a given spatial policy,
  - create land-use plans,
  - integrate plans with planning designs across the country.

- In the area of conservation and revitalization of historic sites, students are able to:
  - define features and value of historic objects,
  - carry our historic research,
  - formulate conservation conclusions,
  - prepare design and adaptation documentation for historic architectural objects and historic buildings.

- In the area of landscape design, students are able to:
  - generate and execute their own design concepts,
  - use a range of tools, techniques and technologies to realize their projects,
  - carefully select means of artistic expression,
  - find ways to express form, function and ideology.

- In the area of theory of architecture, students are able to:
  - ascribe specific architectural solutions to relevant theories,
  - analyze solutions in terms of their function, as parts of systems theory,
  - determine the role of theory in solving specific problems and obtaining specific results.

- In the area of psychology of architecture, students are able to:
  - determine the relations between behavioral patterns and space forms,
  - define space forms and their impact on conscious perception.

- In the area of architectural detail, students area able to:
  - define, illustrate and design forms of details, on the basis of historic and traditional solutions,
  - design contemporary architectural details, taking into account contemporary trends, style, functional requirements and ergonomics,
  - ensure that designed solutions are in line with safety requirements.

- In the area of interior design, students are able to:
  - formulate ideas and compare them against practical and functional requirements,
  - prioritize space and arrange it according to the principles of creating harmony, comfort, balance, scale, etc.
  - distinguish and apply materials for what they are intended,
  - record project information.

- In the area of modern technologies and specialist structures in buildings, students are able to:
  - define sources of information and collect information about specialist solutions,
  - define parameters, conditions as well as technical and economical possibilities for implementing specialist solutions.

- In the area of urban spaces infrastructure, students are able to:
  - define and specify parameters for transportation services,
  - define and specify parameters for technical infrastructure and examine the possibilities for their implementation,
  - ensure interbranch coordination.

- In the area of legal aspects of design work, students are able to:
  - obey regulations, technical and building procedures, and the economics of design,
  - take into consideration only certified and approved solutions and materials,
  - gather initial data and design directives.
In the area of copyright laws and professional ethics, students are able to:
- draw on their legal knowledge to determine the scope of operations necessary for project execution.

In the area of marketing, self-presentation and portfolio, students are able to:
- employ a range of tools and communication strategies (documentary and artistic)
- use their potential, imagination, intuition and emotionality to create their image and promote accomplishments,
- deliver a presentation or speech to an audience.

In the area of drawing:
- Students demonstrate practical skills needed to describe and define ideas as well as illustrate solutions in the domain of architectural objects and space.

Students demonstrate a mature artistic personality, allowing them to create, execute and express their own creative concepts.

Students are able to execute their own creative concepts in the field of architecture and urban design.

Students make independent decisions concerning the design and execution of their projects.

Students know how to design specific aesthetic, social and legal outcomes.

Students collaborate with others while working on team projects and are prepared to lead project teams.

Students develop a range of practical skills, which allows them to execute their own concepts, expanding their creative and expressive repertoire in the field of architecture and urban design.

Students know how to apply existing patterns while creating their projects, which allows them to express their concepts easily and independently, in the field of architecture and urban design.

Students are able to write elaborate papers concerning specialist problems relevant to architecture and urban design, drawing on major theories and various sources.

Students are able to deliver elaborate talks concerning specialist problems relevant to architecture and urban design, drawing on major theories and various sources.

Students demonstrate linguistic skills relevant to their chosen disciplines at a minimum of CEFR level B2+.

Students act responsibly while making public presentations of their projects.

Students are able to define areas for further development; they pursue continuous education in the field of architecture and urban design.

Students are able to formulate and test hypotheses concerning engineering problems and simple research questions relevant to architecture and urban design.

Students are able to assess the usefulness of tools and methods of solving engineering problems, relevant to architecture and urban design; they are able to notice possible limitations of those tools and methods.

Students are able to solve complex engineering problems (also employing innovative solutions) relevant to their chosen disciplines, including atypical problems or problems involving research.

SOCIAL COMPETENCIES

In the area of architectural design:
- students understand the social role of architects and the impact of architecture on the quality of the environment,
- students are able to undertake creative projects in the field of architectural design,
- students effectively carry out their projects,
- students are able to analyze and assess architectural objects (both designed and constructed) from the perspective of form, function, and practical application; they are able to draw right conclusions.

In the area of urban design:
- students understand the architectural profession and the impact of urban planning on shaping urban environment,
− students are able to undertake creative projects in the field of urban design,
− students are able to analyze and assess urban complexes (both designed and constructed); they are able to express opinions and draw conclusions concerning possible improvements of designed urban complexes or modifications of existing ones.

• In the area of spatial planning and regional development:
  − students have qualifications in the field of planning procedures, as well as local and legal requirements that need to be met before launching a project,
  − students are able to assess plans and express opinions concerning the procedure of plan approval,
  − students are aware of the impact of spatial planning and regional development on space; they understand the complex nature of historical, economical, legal, social, environmental, cultural and technical contexts;
  − students understand the meaning and consequences of planning documentation as tools in establishing spatial policies developed by local governments.

• In the area of conservation and revitalization of historic sites:
  − students understand the importance of conservation and revitalization of historic objects for preservation of cultural heritage in order to maintain a multilayered shape of our contemporary architectural space and the entire anthropological environment,
  − students are aware of a unique nature of historic objects in terms of their formal, practical and technological features; they understand that historic objects are unique and their possible loss would be irretrievable,
  − students launch new projects, taking into account procedures, techniques, and knowledge.

• In the area of landscape design:
  − students research, analyze and interpret appropriate data and knowledge,
  − students are aware of the importance of quality landscape as a major ingredient of the anthropological environment,
  − students demonstrate organizational and negotiating skills.

• In the area of theory of architecture:
  − students understand the importance of models and theory of architecture for shaping architecture and the anthropological environment,
  − students understand the impact of theory on shaping spaces, their quality and application.

• In the area of psychology of architecture:
  − students understand the relations between psychology and architecture,
  − students understand the way in which psychology of architecture shapes spaces, their conditions, and quality of use.

• In the area of architectural detail:
  − students understand the importance of architectural detail, its aesthetic, practical and technical values for the standard of architectural objects and the standard of living,
  − students understand the importance of detail while realizing formal and practical effects of architectural objects,
  − students understand technical and technological requirements as well as financial possibilities of realizing details,
  − students are aware of the impact of detail on the complexity of a project and the construction of buildings.

• In the area of interior design:
  − students demonstrate spatial sensitivity,
  − students notice the relations between applied forms and conditions,
  − students are able to analyze projects and draw conclusions according to available resources,
  − students are creative and aware of a range of possible solutions,
  − students demonstrate artistic and technical skills needed to present the designs of interiors of their architectural objects.
• In the area of modern technologies and specialist structures in buildings:
  – students implement new solutions that raise the functional standard of objects and architectural spaces,
  – students are able to design innovative solutions and formulate the outcome of their application,
  – students are aware of the impact of modern technologies on the quality of natural environment.
• In the area of urban spaces infrastructure:
  – students are aware of the interrelations between the development of urban areas and the development of technical infrastructure,
  – students are able to evaluate the effects of spatial solutions and urban processes on economic efficiency, as well as transformations of natural environment.
• In the area of legal aspects of design work:
  – students are ready to acquire professional qualifications required by law,
  – students have professional qualifications within a given location and function, necessary to independently supervise construction works,
  – having acquired right qualifications, students are equipped with skills required to design and manage construction work within the scope of architecture,
  – students are aware of the importance of legal conditions on shape, function and practical application of objects and public spaces.
• In the area of copyright laws and professional ethics:
  – students respect copyright laws and follow the ethical code of conduct for architects and urban planners in order to maintain social relations and obey professional standards,
  – students are aware of key competencies in the field of designing and coordinating tasks while working on multidisciplinary projects,
  – students are aware of key competencies needed to manage architectural and urban planning firms.
• In the area of marketing, self-presentation and portfolio:
  – students understand the importance of effective communication to promote their image and accomplishments,
  – students are equipped with qualifications needed to run their own businesses.
• In the area of drawing:
  – students know how to present their concepts, ideas and solutions, and communicate effectively with other team members.
• Students understand the importance of lifelong learning; they are able to inspire and manage education contexts for others.
• Students are able to integrate their acquired knowledge and comprehensively undertake new projects, even with limited access to resources.
• Drawing on their experience, students consciously employ a range of psychological strategies to support their practice.
• Students are able to critically evaluate their own practice and that of other practitioners.
• Students communicate with confidence and are valuable members of the community through:
  – initiating collaborative projects,
  – leading teams, negotiating and organizing projects,
  – integrating with other people while participating in various cultural ventures,
  – presenting complex projects in an accessible manner.
• Students know and understand the basic principles of industrial property rights and copyright laws; they understand the importance of intellectual property rights management.