MATRIX

of existing Master course

(Technical University of Moldova Faculty of Urbanism and Architecture)

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| Name of compulsory chair | Year | Semester | Number of ECTS | Number of elective chairs | List of available elective chairs | short description | relation between the contents and RETHINK’s theme |
| Architecture | | | | | | | |
| Architectural styles and decor | 1st year | 1 semester | 4 | not available | not available | Evolution of development of architecture on the examples of monuments of different countries and different periods of construction. Theoretical basics of architecture and architectural analysis of structures. Conditions of formation and main characteristic traits of the architectural styles of different epochs. The role and place of the decor in the architectural design. |  |
| Management | 4 | Definition of Management. Management processes. Organization of design and research in construction. Construction enterprise management: types, organizational structures, the organization of production. Human Resources Management. Organization of manager activity. Project of organization and execution of works in construction. Current organization of the building. Construction planning calendar. |  |
| Architectural Design - I | 8 | 1. Urban project –   “Residential area for 18 000 inhabitants”;   1. Project of Public building -   “Business center”. |  |
| Interior Architecture - I | 4 | History of the development of interior architecture. The general basis and definitions of interior. Psychology of the human interior assimilation. Interiors of social structures. Residential buildings interior and equipment. |  |
| Landscape Architecture - I | 3 | Place of Landscape Architecture in the family of fine arts. The evolution of Landscape Architecture. The Landscape Architecture in cultural context – socially. Typology of gardens. Social and political significance. |  |
| Transport, traffic and urban traffic | 4 | Basic notions: roads and urban roads. Urban streets system. Influence of traffic on street design. Elements of urban street plan. Design of longitudinal and transverse profiles of the street. Location of technical networks. Streets, intersections, squares, parking on urban streets. Methods of analysis of city plan and transport system. |  |
| Architectural Restoration - I | 3 | Conservation and restoration of monuments as part of Architecture and Urban Planning. History and theory of conservation and restoration of monuments.  Types and stages of monuments restoration. Theory and practice of restoration work in Romania and Moldova. |  |
| Total 1 sem. |  |  | 30 |  |  |  |  |
| Architectural Restoration -II | 1st year | 2 semester | 4 | not available | not available | Restoration as a scientific process.  Scientific research in the classification of monuments.  Legislation to protect the architectural heritage. Research work in the study of documentary sources. Archaeological research in the buffer zone. Fixing the research results. Measuring works. |  |
| Architectural Design - II | 8 | 1. Project of residential complex –   “Residential complex for 2000 inhabitants”   1. Project of hotel -   “Luxury hotel\*\*\*\*\* for 100 pers.” |  |
| Interior Architecture - II | 4 | Elements that characterize the interior. Shape, material and texture. Compositional principles of interior. Color theory "Years Times". Artificial Synthesis in interior. Iterior light and finishing materials. Design-project of interior. |  |
| Urban Theory - I | 3 | The objective of urban design (general concepts). Street - active urban element. Square as compositional element of urban structure. Urban advertisement. Urban design in the synthesis of fine arts. Urban furniture. Sculpture in the park. Urban Supergraphic. Green spaces in urban design context.  Squares, parks, gardens and recreation areas as part of the urban structure. Mirrors as active urban element. |  |
| Landscape Architecture - II | 4 | The urban green spaces. Design of green spaces, boulevards, pedestrian zones, squares and parks. Composition in Landscape Architecture. Artistic image of green space. Elements of harmonization of landscape composition. Parks degraded territories. Gardens patios and interior gardens. Landscape reconstruction of architectural monuments. Landscape scenario. Botanical classification of plants. |  |
| Information Technology in Architecture | 4 | Overview of MapInfo ® GIS Mapping Information System Corporation company. МаpInfo program interface. Tables. Maps in MapInfo. Graphical objects. MapInfo tables, adding and editing. Extracting evidence and calculations. Report. |  |
| Design Internship | 3 | Architectural and design practice is conducted in project organizations during which, students are involved in the real architectural design. |  |
| Total 2 sem. |  |  | 30 |  |  |  |  |
| Architectural Design - III | 2nd year | 3 semester | 12 | not available | not available | 1. Project of architectural and planning urban reconstruction -   “Reconstruction of historic area of ​​the city”   1. Draft project on the theme of graduation project -   “Pre-project analysis and sketch project” |  |
| Organization of design process | 4 | Methods of building design with various functional programs. Types of projects. Stages of project implementation. Draft project. Expertise of project. Construction authorization. |  |
| Computer aided Videographiics | 4 | Theory of visual presentation of the architectural environment and urban spaces. Features of image of architecture. Terms of visual representations of the urban environment. Determining of visual perception entropy of buildings. |  |
| Urban Theory II | 4 | Town-planning composition as the sum of the principles of the organization of urban space The mechanism and philosophy of the formation of town-planning composition. Morphology and problems of formation of urban environment. |  |
| Architectural Aesthetics | 2 | Definition of architecture and aesthetics. Architecture as a process. Objects of aesthetic relations. Basic principles of aesthetic categories. The notion of aesthetic architectural environment. Architectural form and function. Form and content of architectural image. |  |
| Doctrines in architecture and urbanism | 4 | The study, systematization and analysis of the most important and interesting contemporary architectural and urban projects around the world.  Social and demographic problems of urban planning. Continuous development of the territory. Modern urban policies - international experience. |  |
| Total 3 sem. |  |  | 30 |  |  |  |  |
| Training in Documentation (four weeks: 4x30) | 2nd year | 4 semester | 4 | not available | not available | Graduation Practice gives students the opportunity to work in design workshops, archives, libraries, private design organizations, and to investigate territory. During this period of time, student accumulate information on the theme of project. |  |
| Design of graduation project  (14 weeks: 14x45) | 21 | Elaboration of Degree project |  |
| State exam on basic discipline | 2 | “The history of architecture” or “Urban history” |  |
| State exam on specialty discipline | 2 | “Klauzura” - sketch project |  |
| Defense of graduation project | 1 | Presentation of degree project |  |
| Total 4 sem. |  |  | 30 |  |  |  |  |
| Total for Master course: | 2 years | 4 semesters | 120 |  |  |  |  |

MATRIX

of existing PhD (Doctorate) course

(Technical University of Moldova Faculty of Urbanism and Architecture)

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| Name of compulsory chairs | Year | Semester | Number of ECTS | Number of elective chairs | List of available elective chairs | short description | relation between the contents and RETHINK’s theme |
| 651.02 Theory and history of architecture  212.01 Architecture of building | | | | | | | |
| - PhD Laboratory | 1st year | 1 semester | 30 |  |  | Realization of the research program according to the individual plan | Depending on the research program of the dissertation |
| Total 1 sem. |  |  | 30 |  |  |  |  |
| - Foreign language.  - Informatics  - PhD Laboratory | 1st year | 2 semester | 5  5  20 |  |  | Foreign language study by doctoral candidates and competitors is conceived as a activity-oriented knowledge deepening and strengthening the competences acquired above in academic studies. Improve oral and written communication skills regarding professional activity and scientific. Capacity for analysis and synthesis of information contained in a speech scientific. Upgrading of skills transfer (translation) of the foreign language into maternal and vice versa specialized texts.  Basic concepts in informatics. Personal computers and networks of computers. Operating Systems. Applicative programs. Databases. Computer Programming. High-level programming language. Informational systems and advanced information technology. Internet. www - Service. Informational systems and advanced information technology.  The intermediary results of the research program elaborated following the model of annual report are presented by the doctorate candidate for examination within the scientific conferences / seminars. |  |
| Total 2 sem. |  |  | 30 |  |  |  |  |
| -- PhD Laboratory | 2nd year | 3 semester | 30 |  |  | Realization of the research program according to the individual plan |  |
| Total 3 sem. |  |  | 30 |  |  |  |  |
| - History and methodology of the research domain  - PhD Laboratory | 2nd year | 4 semester | 5  25 |  |  | Philosophy of knowledge, epistemology. Philosophy of science. Epistemology. Logical and methodological aspects of science. Scientific methods. Forms of scientific knowledge and methodological elements of logical analysis. Methodology technical creativity. Methods for activation of thinking. Specific aspects of a research organization. Planning research. Documentation of scientific research. Presentation of research results. Specific issues concerning scientific research in the fields of engineering.  The intermediary results of the research program elaborated following the model of annual report are presented by the doctorate candidate for examination within the scientific conferences / seminars. |  |
| Total 4 sem. |  |  | 30 |  |  |  |  |
| - PhD Laboratory | 3rd year | 5 semester | 30 |  |  | Realization of the research program according to the individual plan |  |
| Total 5 sem. |  |  | 30 |  |  |  |  |
| - Dissertation | 3rd year | 6 semester | 30 |  |  | The doctorate studies end with the defending of the doctorate thesis. The doctorate thesis is defended within a public session; the procedure of its defending is established by NCAA. |  |
| Total 6 sem. |  |  | 30 |  |  |  |  |
| Total doctorate course | 3 years |  | 180 |  |  |  |  |