Bialystok University of Technology				
Field of study	**Architecture**		**Degree level and programme type**	Engineer's / Master degree Erasmus + Program
Specialization / diploma path	---		**Study profile**	academic
Course name	Architectural Design - Housing design II		**Course code**	**IS-FA-00058S**
			Course type	electiv

Forms and number of hours of tuition	L	C	LC	P	SW	FW	S	**Semester**	---
				75				**No. of ECTS credits**	**12**

Entry requirements	---
Course objectives	Obtaining basic knowledge in the field of theory, practical issues and legal regulations concerning the shaping of a sustainable housing environment in cities. Acquiring the skills of program, functional and spatial shaping of areas and housing complexes in various urban scales, taking into account the social and communication infrastructure and the principles of urban composition. Acquiring the skills of program, functional and spatial shaping of multi-family residential buildings, taking into account basic construction and material issues.
Course content	Theoretical materials in the form of an English-language digital textbook for independent analysis - introduce the theory and practical issues of shaping a sustainable multifamily housing environment. They present the ideological, program-spatial and structural shaping of multi-family residential buildings of various types. They provide practical knowledge on taking into account different housing standards and utility programs of apartments.
	Practical project consists of two parts: (1) An urban design of a multi-family housing complex, taking into account technical, communication and social infrastructure, a variety of building types, sun exposure, access to recreational areas and services, while maintaining a clear division of the complex's space into public, semi-public and private. (2) Architectural design of a multi-family residential building selected from the complex, taking into account the variety of apartment types, parking lots or underground garages, storage rooms, technical rooms, utility rooms, and the commercial part - when this function results from the urban concept. Flats designed in accordance with the principle of zoning for the living and night areas.
Teaching methods	Design classes, self-presentation, discussion,
Assessment method	Assessment based on the final design evaluation (60%), 3 small design tasks (20%), self-presentation (10%) and mid-term evaluation (10%).

Symbol of learning outcome	**Methods of assessing the learning outcomes**	**Type of tuition during which the outcome is assessed**
EU1	the student has theoretical knowledge of the main trends and ideas that have influenced contemporary housing planning, the principles of shaping housing complexes, typologies of urban layouts of housing development	A1_W02, A1_W05, A1_W09
EU2	is aware of contemporary design trends, knows the typology of apartments and residential buildings as well as the zoning of residential functions	A1_W02, A1_W06, A1_W09
EU3	knows the rules of programming and shaping the functional and spatial structure of residential areas, the division into private, semi-private and public space	A1_W02, A1_W05, A1_W06, A1_W09, A1_U11
EU4	is able to design residential complexes with communication and social infrastructure, green areas, recreation and user integration,	A1_W05, A1_W06, A1_W07, A1_W11, A1_W12, A1_U01,
EU5	can design low and medium-high multi-family residential buildings with garages / underground car parks	A1_W06, A1_W11, A1_W12, A1_U02, A1_U05, A1_U07

Symbol of learning outcome	Methods of assessing the learning outcomes	Type of tuition during which the outcome is assessed
EU6	is able to design apartments with a different functional program, taking into account different surface standards and needs residents,	A1_W05, A1_W06, A1_W11, A1_W12, A1_U02, A1_U05
EU7	understands the complexity of the issues of shaping the housing environment, the impact of the project on the quality of life of residents and the designer's responsibility for its quality,	A1_W12, A1_W15, A1_U01, A1_U05, A1_K01
EU8	is able to work in a team, shows responsibility for taken design decisions	A1_K01

Symbol of learning outcome	Methods of assessing the learning outcomes	Type of tuition during which the outcome is assessed
EU1	evaluation of small introductory design tasks,	P
EU2	assessment of design solutions in the mid-term and final project	P
EU3	documentation and presentation of the final project	P
EU4	discussion	P

Student workload (in hours)		No. of hours
Calculation	participation in design classes	75
	own work on the project (homework)	35
	preparation of the final study (boards + mockup + description)	25
	participation in final presentation	5
	-	-
	-	-
TOTAL:		140

Quantitative indicators	HOURS	No. of ECTS credits
Student workload – activities that require direct teacher participation	80	6,8
Student workload – practical activities	140	12

Basic references	1. French H., Key urban housing of the twentieth century : plans, sections and elevations, Laurence King Publishing, London 2008. 2. Förster W., Housing in the 20th and 21st centuries , Prestel, München 2006. 3. Levitt D., Bernstein L., The Housing Design Handbook. A guide to good practice,Routledge, Taylor a. Francis Group, New York 2010. 4. Larco N., Kelsey K., West A., Site Design for Multifamily Housing: Creating Livable, Connected Neighborhoods, Island Press 2014.
Supplementary references	1. The architecture of affordable housing, University of California Press, Berkeley 1997. 2. Crosbie M.J., Multi-Family Housing: The Art of Sharing, The Images Publishing Group 2003 3. Jenkins H., Multifamily Housing: Creating a Community, Images Publishing Group, 2017

Organisational unit conducting the course	Department of Housing Architecture	Date of issuing the programme
Author of the programme	PhD, Eng. Arch. Monika Magdziak	**Feb. 18, 2022**

L – lecture, C – classes, LC – laboratory classes, P – project, SW –specialization workshop, FW – field work,S – seminar