

CHART OF THE STUDY PROGRAM

Name of the education program (major): ARCHITECTURE

Faculty name: FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE

Education program	resolution of the Faculty Board dated	24.04.2019
	valid from the academic year	2019/2020
Level of study (I degree/II degree/ uniform master study)		Second degree
Profile of studies (general academic / practical)		General academic
Date and number of the resolution of the Senate adopting the major-related learning outcomes		25.04.2018 r., Resolution no. 220
Form of study (full-time study/part-time study)		full-time studies
Assignment to the field or fields of science		field of engineering and technical sciences
Indication of the discipline (science or art) or disciplines (in the case of few disciplines please indicate – or emphasize - the leading discipline to which a minimum of 50% of learning outcomes applies)		<u>architecture and urban planning</u> civil engineering
Duration (in semesters)		3
Number of ECTS points		90
Professional title received by the graduate		MSc. Eng. Arch.
ISCED classification		architecture and urban planning 0731
Relationship with the University's mission and its development strategy		Education in the field of Architecture is in line with the mission of the Opole University of Technology as a pro-innovative center of education, science and knowledge transfer and the university development strategy until 2020 adopted by the Senate of the Opole University of Technology in 2013.
Learning objectives and employment opportunities and continuation of studies		- equipping a graduate of the second degree with knowledge and skills in architectural, urban planning and conservation as well as spatial planning, including history and theory of

	<p>architecture, urban planning theory, fine arts, technical sciences and humanities;</p> <ul style="list-style-type: none"> - equipping a graduate of the second degree with knowledge and skills in the use of procedures for the design of architectural objects considering social factors; - equipping a graduate of the second degree with knowledge and skills in the field of functional, utility, construction, engineering and engineering and technological problems to a degree that ensures safety and comfort of use of the facilities; - equipping a graduate of the second degree with knowledge and skills in the application of technical and construction rules and procedures, design economics and implementation and the use of architectural object and organization of the investment process and integration of plans with planning projects in the country and in European Union countries; - the completion of the second-cycle studies graduate is ready to undertake employment in: architectural and urban design studios, local government and state administration units, research institutes and for independent business activity; - preparing a graduate to undertake employment in: architectural and urban design studios, local government and state administration units, research institutes and advisory units; - preparing a graduate to undertake third degree studies and research work.
<p>Prerequisites - expected competences of the candidate (especially in the case of second-degree studies)</p>	<p>A candidate applying for admission to full-time second-cycle studies in the field of Architecture, specialization Architecture and Urban Planning must have qualifications at the level of 6 PRK and professional title of architectural engineer (diploma of the 1st degree studies in architecture)</p>
<p>Recruitment rules (in accordance with the recruitment resolution)</p>	<p>Applicants applying for the admission to second-cycle degree in Architecture are required to adhere to interview with the faculty qualification commission for second-cycle studies appointed by the Faculty's dean, during which they show a portfolio covering the project achievements from</p>

	<p>the first-cycle studies. The prerequisite for admission to the second cycle degree (architecture) is to obtain a portfolio score of at least 2 points. (Annex to Resolution No. 117 of the Senate of the Opole University of Technology of 31/05/2017 "Conditions, procedure and date of starting and completing recruitment for studies at the Opole University of Technology for the academic year 2018/2019." Detailed conditions and recruitment procedure at the Opole University of Technology are available at http://www.po.opole.pl in the Recruitment tab and in the reference book for candidates for a given academic year.</p>	
<p>Differences in relation to other programs with similarly defined goals and learning outcomes conducted at the Opole University of Technology</p>	<p>The program of second-cycle studies in the field of Architecture is characterized by a training program aimed at acquiring skills in shaping architectural and urban space, shaping the human environment, considering the relationships between people and architectural objects and the surrounding space. Courses taught within the framework of studies are based on news from disciplines from the field of technical sciences: leading discipline -architecture and urban planning and civil engineering as well as fine arts and art history. Teaching in the field of Architecture is specific for the education of artistic skills and spatial imagination, historical knowledge in the development of architectural and urban thought. Defined objectives and learning outcomes of the graduates of Architecture are significantly different from other fields of study at the Opole University of Technology.</p>	
<p>Means of verification intended learning outcomes</p>	<p><u>knowledge and skills</u> - primarily through design projects, including drawing and writing, and multimedia presentations, including material developed as part of an independent work, <u>social competences</u> - through team work, observation and assessment of attitudes during the didactic discussion and practical classes, <u>form and terms of passing the subject</u> - based on measurable criteria for getting a course credit.</p>	
<p>Summary indicators characterizing the study program,</p>	<p>the total number of ECTS points that a student must obtain in the courses requiring direct participation of academic teachers</p>	<p>67,3</p>

	the total number of ECTS points that a student must obtain as part of the fundamental science to which the learning outcomes apply for a specific study program, the level and profile of study	9
	for the practical profile, the total number of ECTS points assigned to classes related to practical vocational preparation for the general academic profile, the total number of ECTS points assigned to courses related to scientific research in the field of science or art related to the field of study	51
	the number of ECTS points that a student must obtain as part of courses in the humanities or social sciences	5
	in the case of full-time or uniform master studies, the number of hours of physical education classes	-
	percentage share of the number of ECTS credits for the discipline of science (or art) "and" in the total number of ECTS credits - necessary to determine for each discipline, in the case of a study program associated with more than one discipline of science (or art)	<u>90%</u> 10%

Study program approved by the faculty student self-government body.

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Signature of the representative of the
faculty student self-government body

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date, signature, stamp of Dean

Table of major-related learning outcomes

Education program (field of study): ARCHITECTURE	
The level of education: SECOND DEGREE STUDIES	
educational profile: GENERAL ACADEMIC	
symbol of major-related learning outcomes	Learning outcomes After completing the second-cycle studies, the graduate:
Knowledge	
K2_W01	Has in-depth knowledge of theories and principles of architectural design and about the relationship between the object and the environment. Can characterize specialist technical, aesthetic and functional requirements.
K2_W02	In-depth level of knowledge in the field of the principles of ecological design of structures, including advanced and innovative construction technologies.
K2_W03	Knows the theory and systematics of project management.
K2_W04	Knows and understands the architectural protection of historic buildings and historical urban complexes.
K2_W05	Understands the issues of cultural landscape protection and can identify the subject of revitalization of degraded areas.
K2_W06	Has structured knowledge in the field of shaping and implementation of the spatial policy of the state and the spatial planning system in Poland compared to other European countries.
K2_W07	Can formulate the basic issues of spatial and regional planning and spatial policy in Poland in a deepened degree.
K2_W08	Has advanced knowledge of urban planning theory. Can characterize the principles of shaping the city space.
K2_W09	Has in-depth knowledge of the humanities, history and theory of architecture, urban planning and fine arts to the extent necessary to understand the relationship between these sciences and trends in art, architecture and urban planning.
K2_W10	Has knowledge of scientific methodology.
K2_W11	Knows and understands the basic economic mechanisms and forms of individual entrepreneurship.
K2_W12	Knows and understands the theory and terminology in the field of a foreign language that allows the use of a foreign language at the B2 + level of the European System of Language Description.
Skills	
K2_U01	Is able to develop a complex architectural and construction documentation taking into account technical, utilitarian, aesthetic and cultural requirements, with the use of computer aided design tools.
K2_U02	Is able to solve construction, engineering and technological problems to the extent that ensures safety and comfort of use of objects.
K2_U03	Is able to manage the design process taking into account technical and construction rules and procedures, design economics and professional ethics.
K2_U04	Can design an urban project. Is able to interpret the determinants and spatial consequences of local planning documents and to draw up a local spatial development plan.

K2_U05	Can use procedures that enable the design of architectural objects and public spaces, considering social factors.
K2_U06	Can interpret spatial planning issues in the context of national planning documents and European countries.
K2_U07	Can conduct historical research and formulate conservation proposals.
K2_U08	Can prepare a design and adaptation study of historical architectural objects and a limited plan to revitalize urban complexes.
K2_U09	Understands the problems of spatial planning on a regional scale. He can interpret legal provisions regarding planning procedures.
K2_U10	Is prepared to search for and apply appropriate research methods in the undertaken scientific studies.
K2_U11	Can use a foreign language at the B2 + level of the European System of Language Description. Has knowledge of technical language in the field of architecture, urban planning and construction.
Social competences	
K2_K01	Can critically assess his knowledge. Understands the need for continuous training in the field of raising professional, personal and social competences. Is determined to acquire the professional qualifications required by law.
K2_K02	Is aware of the importance and consequences of shaping the human environment, considering the relationships between people and architectural objects and the surrounding space.
K2_K03	Is aware of the need for continuity and continuity of historical forms and for nurturing their values. He is aware of the architect's responsibility for maintaining spatial order, environmental protection and cultural heritage.
K2_K04	Is a responsible participant in planning processes and initiator of participatory activities.
K2_K05	Can design and manage construction works in architectural specialty.
K2_K06	Can effectively use knowledge and artistic skills in his professional work. Is aware of the social dimension of architecture and the impact of visual culture on the quality of the human environment.
K2_K07	Actively plans and organizes its activities in the field related to the field of study and thought and operates in an entrepreneurial manner.
K2_K08	Is aware of the role of the architect profession in society and its impact on the quality of the environment. He acts in a professional manner and in accordance with the principles of professional ethics.
K2_K09	Is responsible for his own work, he is competent in working in a team and coordinating work in multi-discipline project teams.
K2_K10	Can undertake research work and is aware of the need for reliability in undertaking scientific work.
K2_K11	Can run a business independently.

Explanations

Description component code stand for:

- letter K – discriminator of major-related effects,
- number 1 – first-cycle studies,
- _sign (underscore),
- letters: W, U and K – designation of effects categories (W – knowledge, U – skills, K – social competences),

- 01, ... - effect number within a given category, written in the form of two digits (numbers 1-9 should be preceded by the number 0).

PLANY I PROGRAMY STUDIÓW
STUDY PLANS AND PROGRAMS

KIERUNEK STUDIÓW - *FIELD OF STUDY*****

- ARCHITECTURE

- ***ARCHITECTURE***

***Studia stacjonarne
drugiego stopnia
- wg specjalności***

Second Cycle Programme - Full-Time Studies

CHARAKTERYSTYKA OGÓLNA

kierunek studiów: ARCHITECTURE

specjalność: ARCHITECTURE AND URBAN PLANNING

profil: OGÓLNOAKADEMICKI

nazwa wydziału: WYDZIAŁ BUDOWNICTWA I ARCHITEKTURY

plan studiów	uchwała Rady Wydziału z dnia	24.04.2019
	obowiązuje od roku akademickiego	2019/2020
forma studiów (stacjonarne / niestacjonarne)	stacjonarne	
poziom studiów (I stopnia / II stopnia)	II-go stopnia	
czas trwania (w sem.)	3	
tytuł zawodowy otrzymywany przez absolwenta	magister inżynier	
liczba punktów ECTS	90	

PLAN STUDIÓW – STUDY PLAN

POLITECHNIKA OPOLSKA WYDZIAŁ BUDOWNICTWA I ARCHITEKTURY	OPOLE UNIVERSITY OF TECHNOLOGY FACULTY OF CIVIL ENGINEERING
Kierunek studiów: ARCHITECTURE	Field of study: ARCHITECTURE
STUDIA STACJONARNE DRUGIEGO STOPNIA – MAGISTERSKIE	
SECOND CYCLE PROGRAMME - FULL-TIME STUDIES (Master of Science degree)	

SPECJALNOŚĆ – SPECIALIZATION:
ARCHITECTURE AND URBAN PLANNING - ARCHITECTURE AND URBAN PLANNING

SEMESTR: 1 (1 st Semester)		Liczba godzin zajęć w semestrze; E – egzamin Working time (hours) a semester; E – Exam					ECTS	TYP
Nr	Przedmiot Subject unit – semester curricular	W (Lecture)	C (Practical classes)	L (Laboratory classes)	P (Project)	S (Seminar)		
1.1	Architectural project management Zarządzanie projektem architektonicznym	15	-	-	-	-	1	P
1.2	Sustainable general construction of buildings Budownictwo zrównoważone	15	-	-	30	-	3	P
1.3	Structural systems in architecture Ustroje konstrukcyjne w architekturze	30E	-	-	30	-	4	P
1.4	Designing complex architectural objects 1 Projektowanie złożonych obiektów architektonicznych 1	15E	-	-	60	-	6	K
1.5	Landscape Architecture Architektura krajobrazu	15	-	-	30	-	3	K
1.6	Design in Historical Buildings and Complexes Projektowanie w obiektach i zespołach zabytkowych	15E	-	-	45	-	5	K
1.7	History of Town Planning Historia budowy miast	15	-	-	-	-	1	K
1.8	Inventory in architecture Inwentaryzacja architektoniczna	15	-	-	30	-	3	S
1.9	Modern building materials in architecture Nowoczesne materiały budowlane w architekturze	15	-	-	-	-	1	S
Przedmioty obieralne – wymagana liczba p. ECTS w semestrze (Optional units – compulsory ECTS in a semester)							3	
1.10	Humanistic classes elective - Aesthetic dimension of construction Przedmiot humanistyczny obieralny - Estetyczny wymiar budownictwa	30	-	-	-	-	(3)	Ob
	Humanistic classes elective - History of science and technology Przedmiot humanistyczny obieralny - Historia nauki i techniki	30	-	-	-	-	(3)	Ob
Liczba godzin w semestrze (Number of hours in a semester)		180	225				30	
Razem godzin/ECTS w semestrze (Total hours/ECTS in a semester)		405						

SEMESTR: 2 (2 nd Semester)		Liczba godzin zajęć w semestrze; E – egzamin Working time (hours) a semester; E – Exam					ECTS	TYP
Nr	Przedmiot Subject unit – semester curricular	W (Lecture)	C (Practical classes)	L (Laboratory classes)	P (Project)	S (Seminar)		

2.1	Foreign language	-	-	30	-	-	2	O
	Język obcy							
2.2	Designing complex architectural objects 2	15E	-	-	60	-	6	K
	Projektowanie złożonych obiektów architektonicznych 2							
2.3	Design of complex urban systems	15E	-	-	60	-	6	K
	Projektowanie złożonych układów urbanistycznych							
2.4	Spatial and Regional Planning	15	-	-	45	-	4	K
	Planowanie przestrzenne i regionalne							
2.5	Detail in architecture	15	-	-	30	-	3	K
	Detal w architekturze							
2.6	Contemporary Architecture and Urban Planning	15	-	-	-	-	1	S
	Architektura i urbanistyka współczesna							
2.7	Spatial information systems	15	-	-	-	-	1	S
	Systemy informacji przestrzennej							
2.8	Selected problems of building physics	15	-	-	15	-	2	S
	Wybrane zagadnienia fizyki budowli							
2.9	Building installations and infrastructure	30	-	-	15	-	3	S
	Instalacje i infrastruktura budynku							
Przedmioty obieralne – wymagana liczba p. ECTS w semestrze (Optional units – compulsory ECTS in a semester)							2	
2.10	Social classes elective - Social and economic aspects of renewable energy	30	-	-	-	-	(2)	Ob
	Przedmiot społeczny obieralny - Społeczne i ekonomiczne aspekty energii odnawialnej							
2.10	Social classes elective - The role of inventiveness in society	30	-	-	-	-	(2)	Ob
	Przedmiot społeczny obieralny - Rola wynalazczości w społeczeństwie							
Liczba godzin w semestrze (Number of hours in a semester)		165	255				30	
Razem godzin/ECTS w semestrze (Total hours/ECTS in a semester)		420						

SEMESTR: 3 (3 rd Semester)		Liczba godzin zajęć w semestrze; E – egzamin Working time (hours) a semester; E – Exam					ECTS	TYP
Nr	Przedmiot Subject unit – semester curricular	W (Lecture)	C (Practical classes)	L (Laboratory classes)	P (Project)	S (Seminar)		
3.1	Basics of entrepreneurship	15	-	-	-	-	1	P
	Podstawy przedsiębiorczości							
3.2	Revitalization and protection of the Cultural Landscape	15	-	-	15	-	2	K
	Rewitalizacja obszarów zdegradowanych i ochrona krajobrazu kulturowego							
3.3	Interior Design	-	-	-	30	-	3	K
	Projektowanie wnętrz							
3.4	Form and construction in the architecture of bridges	15	-	-	-	-	1	S
	Forma i konstrukcja w architekturze mostów							
3.5	Methodology of scientific research	15	-	-	-	-	1	S
	Metodologia badań naukowych							
3.6	Diploma seminar	-	-	-	-	15	1	Dyp
	Seminarium dyplomowe							
3.7	Diploma	godziny niekontaktowe (un-contact hours)					20	Dyp
	Praca dyplomowa							
Przedmioty obieralne – wymagana liczba p. ECTS w semestrze (Optional units – compulsory ECTS in a semester)							1	

3.8	Optional course related to the Diploma - Selected issues of architectural design	15	-	-	-	-	(1)	Ob
	Przedmiot obieralny związany z dyplomem - Wybrane zagadnienia projektowania architektonicznego							
	Optional course related to the Diploma - Selected issues of urban design	15	-	-	-	-	(1)	Ob
	Przedmiot obieralny związany z dyplomem - Wybrane zagadnienia projektowania urbanistycznego							
Liczba godzin w semestrze (Number of hours in a semester)		75	60				30	
Razem godzin/ECTS w semestrze (Total hours/ECTS in a semester)		135						

PLAN STUDIÓW RAZEM (TOTAL STUDY PLAN)		ECTS
Łącznie godzin kontaktowych/ECTS w planie studiów	960	90
Total contact hours/ECTS in study plan		

STATYSTYKA PROGRAMU KSZTAŁCENIA			
Typ	Przedmioty - p. ECTS razem	wg planu	udział
O	Ogólne	2	2.22 %
Ob	Obieralne	6	6.67 %
P	Podstawowe	9	10.00 %
K	Kierunkowe	39	43.33 %
S	Specjalnościowe	13	14.44 %
Dyp	Związane z dyplomem	21	23.33 %
Łącznie:		90	100.00 %

Program kształcenia dostosowany do wydziałowych efektów uczenia się dla kierunku studiów ARCHITECTURE (studia drugiego stopnia)
Plan i program studiów:
– uchwalony przez Radę Wydziału Budownictwa i Architektury w dniu 24.04.2019
– zaopiniowany przez wydziałowy organ samorządu studenckiego.

Politechnika Opolska
Wydział Budownictwa i Architektury
Opole 2019 r.