

WYDZIAŁ TECHNOLOGII CHEMICZNEJ

Dziekanat

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**Plan studiów i punkty ECTS dla kierunku CHEMICAL TECHNOLOGY,
studia stacjonarne I stopnia
zatwierdzone 25.02.2020
obowiązujące od roku akademickiego 2020/2021**

Semester 1	Number of hours	ECTS points
Mathematics (2C + 2Pc) E	60	5
Physics (3C + 1Pc) E	60	5
General and inorganic chemistry (3C + 2Pc) E	75	7
Engineering graphics (2P)	30	3
Information technology (1C + 1P)	30	2
<i>Eligible humanistic subject (one out of three)</i>		3
<i>Psychology (2C)</i>	30	3
<i>Philosophy (2C)</i>	30	3
<i>Social psychology (2C)</i>	30	3
<i>Foreign language (4Pc)</i>	60	5
Physical education (2Pc)	30	0
Working safety (once)	4	0
Library services (e-learning)	2	0

Semester 2	Number of hours	ECTS points
Mathematics (2C + 2Pc) E	60	5
Physics (3Lc)	45	3
General and inorganic chemistry (4Lc)	60	5
Analytical chemistry (2C + 3Lc) E	75	5
<i>Foreign language (4Pc) E</i>	60	5
<i>Eligible humanistic subject (one out of two)</i>		3
<i>Marketing and management (2C)</i>	30	3
<i>Management and entrepreneurship (2C)</i>	30	3
<i>Eligible Subject I (two out of three)</i>		4
<i>Information technology (1P)</i>	15	2
<i>General and inorganic chemistry (1C)</i>	15	2
<i>Engineering graphics (1P)</i>	15	2
Physical Education (2Pc)	30	0

Semester 3	Number of hours	ECTS points
Organic chemistry (2C + 2Pc) E	60	5
Organic chemistry – laboratory (2Lc)	30	3
Chemical and process thermodynamics (2C + 2Lc) E	60	6
Chemical and process thermodynamics (2Pc)	30	2
Instrumental analysis (2C + 2Lc) E	60	4
Material science and theory of machines (2C + 1P) E	45	3
<i>Eligible subject in general and inorganic chemistry (one out of two)</i>		3
<i>Practical applications of inorganic compounds reactions (2Lc)</i>	30	3

<i>Elements of inorganic preparation (2Lc)</i>	30	3
<i>Eligible Subject II (one out of two)</i>		2
<i>Analytical chemistry - gravimetric analysis (1Lc)</i>	15	2
<i>Analytical chemistry - titrants and acid–base standardization (1Lc)</i>	15	2
<i>Eligible Subject III (one out of two)</i>		2
<i>Instrumental analysis with elements of samples preparation (1Lc)</i>	15	2
<i>Material science and theory of machines (1P)</i>	15	2

Semester 4	Number of hours	ECTS points
Organic chemistry (2C + 2Pc) E	60	4
<i>Organic chemistry – eligible subject (one out of two)</i>		3
<i>Oxygen-based organic compounds (2Lc)</i>	30	3
<i>Nitrogen-based organic compounds (2Lc)</i>	30	3
Physical chemistry (2C + 2Pc + 2Lc) E	90	5
<i>Physical chemistry – eligible subjects (one out of two)</i>		2
<i>Chemical kinetics and electrochemistry II (1Lc)</i>	15	2
<i>Influence of electromagnetic radiation on matter (1Lc)</i>	15	2
Chemical industry equipment (2C + 2P) E	60	5
<i>Chemical industry equipment – eligible subject (one out of two)</i>		2
<i>Chemical industry equipment - design of centrifugal collector (1P)</i>	15	2
<i>Chemical industry equipment - design of a sedimentation tank (1P)</i>	15	2
Chemometrics and elements of statistics (1C + 2Pc)	45	4
Solid state chemistry (2C + 2Lc) E	60	5

Semester 5	Number of hours	ECTS points
Chemical engineering (2C + 4Lc) E	90	6
Chemical engineering (2P)	30	2
Fundamentals of chemical technology (2C + 2Lc) E	60	5
Fundamentals of chemical technology (1Pc)	15	1
Inorganic chemical technology (2C + 2Lc) E	60	5
Inorganic chemical technology (1Pc)	15	1
Technology of polymeric materials (2C + 2Lc) E	60	5
Technology of polymeric materials (1Pc)	15	1
<i>Eligible Project (two out of three)</i>		4
<i>Fundamentals of chemical technology (1P)</i>	15	2
<i>Inorganic chemical technology (1P)</i>	15	2
<i>Technology of polymeric materials (1P)</i>	15	2

Semester 6	Number of hours	ECTS points
Fundamentals of electrochemical technology (2C + 2Lc) E	60	5
Elements of electrical engineering and electronics (2C)	30	2
Organic chemical technology (2C + 1Pc + 2Lc) E	75	6
Methods of organic compounds analysis (1C + 1Pc + 1Lc)	45	4
Elements of automation and measurements in chemical technology (1C + 1P) E	30	2
Technological project (2P)	30	2
<i>Eligible subject IV (one out of two)</i>		2
<i>Advanced methods of organic compounds analysis (1C + 1Lc)</i>	30	2
<i>Chemical engineering (1C + 1Lc)</i>	30	2

<i>Eligible subject V (one out of three)</i>		1
<i>Computer aided design (1P)</i>	15	1
<i>Organic chemical technology (1P)</i>	15	1
<i>Fundamentals of electrochemical technology (1Lc)</i>	15	1
<i>Eligible lecture I (one out of two)</i>	15	1
<i>Microcontrollers for chemists (1C)</i>	15	1
<i>Imaging methods in chemistry (1C)</i>	15	1
Intership - 6 weeks		5
Information skills (once)	2	0

Semester 7	Number of hours	ECTS points
Technology of special purpose materials and nanomaterials (1C)	15	2
Exploitation and process safety (1C)	15	2
Methods of technological process control (1C + 1Lc)	30	3
<i>Eligible subject VI (a total of 6 ECTS)</i>		6
<i>Fundamentals of product engineering and quality management (1C + 1P)</i>	30	4
<i>Technology of special purpose materials and nanomaterials (1C)</i>	15	2
<i>Exploitation and process safety (1C)</i>	15	2
<i>Methods of technological process control (1C)</i>	15	2
<i>Protection of intellectual property, safety and work ergonomics (1C)</i>	15	2
<i>Eligible Lecture II (one out of two)</i>		2
<i>Water purification and wastewater treatment technologies (1C)</i>	15	2
<i>Corrosion prevention technologies (1C)</i>	15	2

<i>Diploma seminar (1P)</i>	15	2
Preparation and submission of the thesis	120	13


C – Classes (Lecture)

Pc - practical classes

P – Project

Lc – Laboratory course

E - exam

DZIEKAN
Wydziału Technologii Chemicznej GP

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