



**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 (autumn/winter semester)	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 (spring/summer semester)	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 (autumn/winter semester)	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 + 2Pc) 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 Preparation (1Lc)</i>	15	2
<i>Material Science and Theory of Machines (1P)</i>	15	2

Semester 4 (spring/summer semester)	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>Design of Centrifugal Collector (1P)</i>	15	2
<i>Design of a Sedimentation Tank (1P)</i>	15	2
Chemometrics and Elements of Statistics (1C + 2Pc)	45	4
Solid State Chemistry (2C + 2Pc) E	60	5

Semester 5 (autumn/winter semester)	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 IV (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 (spring/summer semester)	Number of hours	ECTS points
Fundamentals of Electrochemical Technology (2C + 2Lc) E	60	5
Elements of Electrical Engineering and Electronics (2Lc)	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 + 1Pc) E	30	2
Technological Project (2P)	30	2
<i>Eligible Subject V (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 VI (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 (one out of two)</i>	15	1
<i>Microcontrollers for chemists (1L)</i>	15	1
<i>Imaging methods in chemistry (1L)</i>	15	1
Internship - 6 weeks		5
Information Skills (once)	2	0

Semester 7 (autumn/winter semester)	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 (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 (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

