WTiICh

Faculty of Chemical Technology and Engineering
Major: **Chemical Engineering**
Fields of science: **engineering and technology**
Disciplines of science: **chemical engineering (100%)**
Educational profile: **general academic**
Mode of study: **stationary**
Level of studies: **first cycle**
Specialisation:
Symbol: **ChIn_1s_I_2020_2021_2**

Zachodniopomorski Uniwersytet Technologiczny w Szczecinie

Academic year 2021/2022
Valid from 2021-10-01
Annex 1 to the Senat Resolution No.72 of April 26, 2021

Curriculum	Obligatory/optional	Group of professional subjects	Basic/Core/Other	Modules / subject system	Hours of lectures	Hours of exercises	Hours of laboratory classes	Hours of project classes	Hours of seminar classes	Hours of other classes	Hours of practical classes	Hours of lectures with E-learning	Hours of exercises with E-learning	Hours of laboratory classes with E-learning	Hours of project classes with E-learning	Hours of seminar classes with E-learning	Hours of other classes with E-learning	Hours of practical classes with E-learning	Hours of self-study	Hours of contact classes	ECTS
First year 1st semester																					
Studies Subjects in general education				Basic Foreign Language I	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	60	2
Studies Subjects in general education				Basic Foreign Language II	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	60	2
Studies Subjects in general education				Mathematics I	0	45	15	0	0	0	0	0	0	0	0	0	0	0	0	60	2
Studies Subjects in general education				Physical Education	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Studies Subjects in general education				Intellectual Property	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0
Studies Subjects in general education				Informatics and Other	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in general education				Safe Training	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Studies Subjects in general education				Foreign Languages	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in general education				Foreign Language I	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in general education				Basics of Modern Economics	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0
Studies Subjects in general education				Safety Lab Analysis	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in general education				Technology, Law and Archiving Documentation	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in general education				Mathematics	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	60	2
Studies Subjects in general education				Total	0	435	30	0	0	0	0	0	0	0	0	0	0	0	0	465	15
Studies Subjects in core education				Mathematics I	0	90	30	0	0	0	0	0	0	0	0	0	0	0	0	120	4
Studies Subjects in core education				Mathematics II	0	90	30	0	0	0	0	0	0	0	0	0	0	0	0	120	4
Studies Subjects in core education				Physics	0	120	30	0	0	0	0	0	0	0	0	0	0	0	0	150	5
Studies Subjects in core education				Chemistry	0	120	30	0	0	0	0	0	0	0	0	0	0	0	0	150	5
Studies Subjects in core education				Total	0	420	120	0	0	0	0	0	0	0	0	0	0	0	0	540	18
Studies Subjects in other education				Mathematics III	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	60	2
Studies Subjects in major education				Engineering Drawing	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in major education				Basic Informatics	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Analysis and Appropriate Informatics	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Intellectual Informatics	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Engineering Relationships and Technologies	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Analysis and Analysis etc. of Chemical Materials	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Mathematics V	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Mathematics VI	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Chemical Engineering Thermodynamics	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Chemical Technology, Introduction with Laboratory Analysis	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Chemical Kinetics and Catalysis	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Chemical Machinery and Chemical Devices	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in other education				Mathematics VII	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in other education				Chemistry II	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in other education				Mathematics VIII	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in major education				Chemical Engineering	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Chemical Technology	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Introduction to Metal Corrosion and Electrochemical Analysis	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Colloid and Interface Chemistry	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Chemical Machinery and Chemical Devices	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in other education				Mathematics X	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in other education				Water Technology and Wastewater	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in other education				Mathematics XI	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in major education				Chemical Engineering	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Mathematics XII	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in other education				Mathematics XIII	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in other education				Total	0	1080	195	0	0	0	0	0	0	0	0	0	0	0	0	1275	42
Studies Subjects in major education				Metrology	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in major education				Safety Training	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Electives. Institutes Subjects				Chemical Engineering Projects (selective)	0	240	0	0	0	0	0	240	0	0	0	0	0	0	0	240	8
Electives. Institutes Subjects				Chemical Technology Projects (selective)	0	240	0	0	0	0	0	240	0	0	0	0	0	0	0	240	8
Electives. Institutes Subjects				Introduction to Chemical Technology	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Introduction to Chemical Technology	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Introduction to Modeling, Simulation and Optimization Methods Applied in Industry	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Introduction to Modeling, Simulation and Optimization Methods Applied in Industry	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Introduction to Experimental Chemical Engineering	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Introduction to Experimental Chemical Technology	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Introduction to Bioprocessing	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Introduction to Pharmaceutical Engineering	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Computer Aided Engineering Calculations	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Additional Practical Laboratory	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Language Practical Engineering	0	240	30	0	0	0	0	0	0	0	0	0	0	0	0	270	9
Electives. Institutes Subjects				Advanced Chemical Technology	0	240	30	0	0	0	0	0	0	0	0	0	0	0	0	270	9
Electives. Institutes Subjects				Case Studies in Chemical Engineering	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Electives. Institutes Subjects				Case Studies in Chemical Technology	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Electives. Institutes Subjects				Management in Engineering	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Electives. Institutes Subjects				Computer Vision	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Electives. Institutes Subjects				Mathematics in Industry	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Electives. Institutes Subjects				Language for Biologs	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Electives. Institutes Subjects				Selected Images in Chemical Engineering	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
				Selected Images in Chemical Technology	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Internship				Internship	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Internship				Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diploma subjects				Art of Diploma Seeking	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diploma subjects				Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Humanistic-social subjects				Introduction to Sociology	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Humanistic-social subjects				Total	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
				Total	0	2160	345	0	0	0	0	0	0	0	0	0	0	0	0	2505	83
First year 2nd semester																					
Studies Subjects in general education				Basic Foreign Language I	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	60	2
Studies Subjects in general education				Basic Foreign Language II	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	60	2
Studies Subjects in general education				Mathematics I	0	45	15	0	0	0	0	0	0	0	0	0	0	0	0	60	2
Studies Subjects in general education				Physical Education	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Studies Subjects in general education				Informatics and Other	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in general education				Safe Training	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Studies Subjects in general education				Foreign Languages	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in general education				Foreign Language I	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in general education				Basics of Modern Economics	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0
Studies Subjects in general education				Safety Lab Analysis	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in general education				Technology, Law and Archiving Documentation	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in general education				Mathematics	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	60	2
Studies Subjects in general education				Total	0	435	30	0	0	0	0	0	0	0	0	0	0	0	0	465	15
Studies Subjects in core education				Mathematics I	0	90	30	0	0	0	0	0	0	0	0	0	0	0	0	120	4
Studies Subjects in core education				Mathematics II	0	90	30	0	0	0	0	0	0	0	0	0	0	0	0	120	4
Studies Subjects in core education				Physics	0	120	30	0	0	0	0	0	0	0	0	0	0	0	0	150	5
Studies Subjects in core education				Chemistry	0	120	30	0	0	0	0	0	0	0	0	0	0	0	0	150	5
Studies Subjects in core education				Total	0	420	120	0	0	0	0	0	0	0	0	0	0	0	0	540	18
Studies Subjects in other education				Mathematics III	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	60	2
Studies Subjects in major education				Engineering Drawing	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in major education				Basic Informatics	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Analysis and Appropriate Informatics	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Intellectual Informatics	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Engineering Relationships and Technologies	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Analysis and Analysis etc. of Chemical Materials	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in other education				Mathematics V	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in other education				Mathematics VI	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in major education				Chemical Engineering Thermodynamics	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Chemical Technology, Introduction with Laboratory Analysis	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Chemical Kinetics and Catalysis	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Chemical Machinery and Chemical Devices	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in other education				Mathematics X	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in other education				Water Technology and Wastewater	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in other education				Mathematics XI	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in major education				Chemical Engineering	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in major education				Mathematics XII	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in other education				Mathematics XIII	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in other education				Total	0	1080	195	0	0	0	0	0	0	0	0	0	0	0	0	1275	42
Studies Subjects in major education				Metrology	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in major education				Safety Training	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Electives. Institutes Subjects				Chemical Engineering Projects (selective)	0	240	0	0	0	0	0	240	0	0	0	0	0	0	0	240	8
Electives. Institutes Subjects				Chemical Technology Projects (selective)	0	240	0	0	0	0	0	240	0	0	0	0	0	0	0	240	8
Electives. Institutes Subjects				Introduction to Chemical Technology	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Introduction to Chemical Technology	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Introduction to Modeling, Simulation and Optimization Methods Applied in Industry	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Introduction to Modeling, Simulation and Optimization Methods Applied in Industry	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Introduction to Experimental Chemical Engineering	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Introduction to Experimental Chemical Technology	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Introduction to Bioprocessing	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Introduction to Pharmaceutical Engineering	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Computer Aided Engineering Calculations	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Additional Practical Laboratory	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Electives. Institutes Subjects				Language Practical Engineering	0	240	30	0	0	0	0	0	0	0	0	0	0	0	0	270	9
Electives. Institutes Subjects				Advanced Chemical Technology	0	240	30	0	0	0	0	0	0	0	0	0	0	0	0	270	9
Electives. Institutes Subjects				Case Studies in Chemical Engineering	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Electives. Institutes Subjects				Case Studies in Chemical Technology	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Electives. Institutes Subjects				Management in Engineering	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Electives. Institutes Subjects				Computer Vision	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Electives. Institutes Subjects				Mathematics in Industry	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Electives. Institutes Subjects				Language for Biologs	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Electives. Institutes Subjects				Selected Images in Chemical Engineering	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
				Selected Images in Chemical Technology	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Internship				Internship	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Internship				Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diploma subjects				Art of Diploma Seeking	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diploma subjects				Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Humanistic-social subjects				Introduction to Sociology	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Humanistic-social subjects				Total	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
				Total	0	2160	345	0	0	0	0	0	0	0	0	0	0	0	0	2505	83
Second year 3rd semester																					
Studies Subjects in general education				Basic Foreign Language I	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	60	2
Studies Subjects in general education				Basic Foreign Language II	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	60	2
Studies Subjects in general education				Mathematics I	0	45	15	0	0	0	0	0	0	0	0	0	0	0	0	60	2
Studies Subjects in general education				Physical Education	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Studies Subjects in general education				Informatics and Other	0	30	15	0	0	0	0	0	0	0	0	0	0	0	0	45	2
Studies Subjects in general education				Safe Training	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Studies Subjects in general education				Foreign Languages	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in general education				Foreign Language I	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in general education				Basics of Modern Economics	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0
Studies Subjects in general education				Safety Lab Analysis	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in general education				Technology, Law and Archiving Documentation	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1
Studies Subjects in general education				Mathematics	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	60	2
Studies Subjects in general education				Total	0	435	30	0	0	0	0	0	0	0	0	0	0	0	0	465	15
Studies Subjects in core education				Mathematics I	0	90	30	0	0	0	0	0	0	0	0	0	0	0	0	120	4
Studies Subjects in core education				Mathematics II	0	90	30	0	0	0	0	0	0	0	0	0	0	0	0	120	4
Studies Subjects in core education				Physics	0	120	30	0	0	0	0	0	0	0	0