



УНИВЕРЗИТЕТ У БАЊОЈ ЛУЦИ
UNIVERSITY OF BANJA LUKA
ПРИРОДНО-МАТЕМАТИЧКИ ФАКУЛТЕТ
FACULTY OF NATURAL SCIENCES AND MATHEMATICS



CHEMISTRY DEPARTMENT

FIRST CYCLE OF STUDY

Chemistry

Course name	Industrial Chemistry 1			
Course code	Course status	Semester	Hours of instruction	ECTS
1C16HOS1124	required	V	3+3	7
Teacher(s)	Prof. Dragica Lazić PhD			

Prerequisite course(s)	Entry requirements
Inorganic Chemistry, Analytical Chemistry 2 and Physical Chemistry 2	Attended classes

Course goals
Introducing chemistry students to basic technological operations in order to facilitate the mastery of technologies, management and control of the process of the inorganic chemical industry and the application of chemistry in that industry.

Learning outcomes
The student will be able to organize the control of a specific technological process on the basis of knowledge from technological operations and inorganic chemical technology, i.e. control of input raw materials, intermediate products and products, and the end result is to help manage the technological process in order to obtain a quality product.

Course content
Basic physical-mechanical operations. Separation of materials from each other. Separation of solid materials from gases. Thermal separation methods. Industrial furnaces. Extraction, adsorption and absorption. Transport of solid materials, liquids and gases. Water technology, Fuel technology. Building materials, mortar binders and cements. Acids, Alkalis, Salts. Metallurgy.

Teaching methods
Lectures, laboratory exercises, seminar work, presentations

Books and other learning materials
1. Dragomir Vitorović, Chemical Technology (in Serbian), Belgrade, 1990 2. Ljiljana Kostić-Gvozdrenović, Rozalija Ninković, Inorganic Chemical Technology (in Serbian), Belgrade, 1997 3. Jovan Đuković, Branko Đukić, Dragica Lazić, Milivoje Marsenić, Water Technology (in Serbian), Belgrade, 2000, 4. Vladimir Rakelić, Olga Vitorović, Analytical tests in technological production (in Serbian), TMF, Belgrade, 1988 5. Sokolov Rostislav Sergeevich, Chemical Technology (in Russian), Moscow, 2003

Course activities and grading method
Colloquia. Tests. Oral exam

Tests and activity	40	Final exam	60
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Additional course notes
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Name of the teacher who prepared this form	Dragica Lazić
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