

Title <b>Environmental Chemistry</b>	Code <b>1010134231010130399</b>
Field <b>Environmental Engineering Extramural First-cycle studies</b>	Year / Semester <b>2 / 3</b>
Specialty -	Course <b>core</b>
Hours Lectures: <b>2</b> Classes: -    Laboratory: <b>1</b> Projects / seminars: -	Number of credits <b>5</b>
	Language <b>polish</b>

**Lecturer:**

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**Status of the course in the study program:**

-Core course.

**Assumptions and objectives of the course:**

-The ability of understanding of processes, phenomenons and interactions in environment and in purification processes ; skill of forecasting and planning chemical processes in environment protection and purification.

**Contents of the course (course description):**

-Surface phenomena, adsorption, surfactants, suspension foams, ion exchange, emulsions; corrosion of metals. An introduction to organic chemistry: nature of organic substances: alkanes, alkenes, alkynes, dienes. Aromatic and polycyclic hydrocarbons, alcohols and phenols, ethers, aldehydes and ketones, acids, esters, halogen acids, hydroxyl acids, amino acids, proteins, enzymes, saccharides. Dyes and polymers.

**Introductory courses and the required pre-knowledge:**

-Chemistry of High School program  
-Program of Environmental Chemistry sem. II.

**Courses form and teaching methods:**

-Lectures and laboratory

**Form and terms of complete the course - requirements and assessment methods:**

-Examination - test at the end of semester and test from lab tutorials on the last week of semester.

**Basic Bibliography:**

**Additional Bibliography:**