

Course title: English for biotechnology												
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30E, 4ECTS												
Available in semester: S –spring only A – autumn only Y - both	Language taught	ISCED2013-F code	ISCED2013-F field of study	Level: 1 – BSc (EQF-6) 2-MSc (EQF 7) 3 – PhD (EQF 8)	ECTS	Lecture (hours)	Exercises (hours)	Laboratory	Seminar (hours)	e-learning (hours)	Project (hours)	Examination: EO – exam oral EW – exam written, A-assignment
A	EN	0521	Environmental sciences	2	4	-	30	-	-	-	-	A

SYLLABUS

COURSE OBJECTIVES

C.1. Acquiring the ability to use specialized English in the field of biotechnology

PRELIMINARY COURSE REQUIREMENTS FOR KNOWLEDGE, SKILLS AND OTHER COMPETENCES

1. Knowledge covering the basics of vocabulary and concepts in the field of English (General English) at the B1-B2 level
2. Students are expected to have ability to work in a team

LEARNING OUTCOMES

EU 1 - Student has the ability to use specialist English in speech and writing in the field of biotechnology

COURSE CONTENT

Form of classes - exercises	Hours
Selected issues of use of biotechnological methods in industry and for the environment	10
Biotechnological methods in wastewater treatment	6
Biotechnological methods in water treatment	6
Biotechnology in waste treatment	6
Course summary	2

COURSE STUDY METHODS

1. blackboard

2. multimedia presentation
3. e-learning platform e.g. Moodle
3. discussion in groups
4. study visits to biotechnological installations

METHODS OF ASSESMENT (F - formative; S - summative)

F1. – activity in classes
F2. – evaluation of the team work
S1. - evaluation of multimedia presentations
S2. – evaluation of reports

PRIMARY AND SUPPLEMENTARY TEXTBOOKS

Actual scientific literature (research papers) concerning various aspects of biotechnological methods use in industry and environmental protection
Popenda A, Włodarczyk-Makuła M., Hazard from sediments contaminated with persistent
Popenda A., M. Włodarczyk-Makuła The application of biosurfactants into removal of selected micropollutants from soils and sediments, Desalination and Water Treatment, Volume 57, Issue 3, 2016, 1255-1261.DOI:10.1080/19443994.2014.996007

OTHER USEFUL INFORMATION

1. All the information on the class schedule is posted on the student information board and online at: www.is.pcz.pl
2. The information about the consultation hours is provided to students on the first class meeting and posted online at the Faculty of Infrastructure and Environment Website
3. The information on course completion and grade is provided to students on the first class meeting.