



University
of Bielsko-Biala

Environmental Sciences, Material Sciences

Faculty of Materials, Civil and Environmental Engineering

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Code	Course Title	Study Level	ECTS	Semester	Faculty	Course requirements	Language
1/I_21/ L/S /W2	Chemistry for Civil Engineering	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Written exam	English
2/I_21/ L/S /W2	Polymer Physics	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Seminar paper	English
3/I_21/ L/S /W2	X-ray Scattering Methods in Material Science	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Seminar paper	English
4/I_21/ L/S /W2	Clothing Technology	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Written exam and multimedia presentation	English
5/I_21/ L/S /W2	Special Clothing	BSc/BA/MA	2	W/S	Faculty of Materials, Civil and Environmental Engineering	Written exam	English
6/I_21/ P /W2	Project of the Special Clothing	BSc/BA/MA	1	W/S	Faculty of Materials, Civil and Environmental Engineering	Evaluation of documentation realized in the writing form and as a multimedia presentation	English

7/I_21/ L/S /W2	Fibre science (lecture)	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Test	English
8/I_21/ L/E /W2	Fibre science (laboratory)	BSc/BA/MA	2	W/S	Faculty of Materials, Civil and Environmental Engineering	Test	English
9/I_21/ L/S /W2	High-performance fibres	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Exam	English
10/I_21/ L/S /W2	Biomimetic	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Basic knowledge of chemistry	English
11/I_21/ L/S /W2	Ceramic processes (lecture)	BSc/BA/MA	2	W/S	Faculty of Materials, Civil and Environmental Engineering	Basic knowledge of chemistry, Basic of ceramic materials	English
12/I_21/ L/E /W2	Ceramic processes	BSc/BA/MA	3	S	Faculty of Materials, Civil and Environmental Engineering	Basic knowledge of chemistry, Basic of ceramic materials, Own protective glasses and apron	English
13/I_21/ L/S /W2	Polymers (lecture)	BSc/BA/MA	2	S	Faculty of Materials, Civil and Environmental Engineering	Polymers, polymer processing, organic chemistry	English
14/I_21/ P /W2	Polymers (project)	BSc/BA/MA	3	S	Faculty of Materials, Civil and Environmental Engineering	Polymers, polymer processing, organic chemistry	English
15/I_21/ L/E /W2	Organic Chemistry (laboratory)	BSc/BA	2	W/S	Faculty of Materials, Civil and Environmental Engineering	General chemistry	English
16/I_21/L/S/P/W2	Design thinking	BSc/BA	5	W	Faculty of Materials, Civil and Environmental Engineering	English level B2	English
17/I_22/ L/S /W2	Water and Wastewater Technology (lecture)	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Exam	English
18/I_22/ L/E /W2	Water and Wastewater Technology (laboratory classes)	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Laboratories: attendance, written reports based on knowledge (connected with particular experiments) and performed experiments	English

19/I_22/ P /W2	Water and Wastewater Technology (project)	BSc/BA/MA	2	W/S	Faculty of Materials, Civil and Environmental Engineering	Project: attendance, final report (based on calculations)	English
20/I_22/ L/S /W2	Biomass and Bioenergy Technologies	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance, seminar with discussion	English
21/I_22/ L/S /W2	Solid Wastes Management	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance, seminar with discussion	English
22/I_22/ L/S /W2	Environmental Chemistry (lecture)	BSc/BA/MA	2	W/S	Faculty of Materials, Civil and Environmental Engineering	Basic general chemistry and physics	English
23/I_22/ L/E /W2	Environmental Chemistry (laboratory)	BSc/BA/MA	2	S	Faculty of Materials, Civil and Environmental Engineering	Basic general chemistry and physics	English
24/I_22/ L/S /W2	Organic Chemistry (lecture)	BSc/BA	2	S	Faculty of Materials, Civil and Environmental Engineering	Basic general chemistry	English
25/I_22/ L/E /W2	Hydrobiology and water chemistry	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance of the course, discussion with students, the evaluation the exercise reports given by students, the estimation of qualification of conduction and evaluation the biological water analysis, by students	English
26/I_22/ L/S /W2	Devices and technologies for treatment of biogas	BSc/BA/MA	3	S	Faculty of Materials, Civil and Environmental Engineering	Lecture: exam, presentation	English
27/I_22/ P /W2	Hydrology	BSc/BA/MA	3	S	Faculty of Materials, Civil and Environmental Engineering	Credit with grade on the basis of assessment with the projects. On the assessment is also affected by systematic work, activity and attendance	English

28/I_22/ P /W2	Water Management	BSc/BA/MA	3	S	Faculty of Materials, Civil and Environmental Engineering	Credit with grade on the basis of assessment with the project. On the assessment is also affected by systematic work, activity and attendance	English
29/I_22/ L/S /W2	Basic ecology	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance of the course, seminar with discussion	English
30/I_22/L/S/E/W2	Community ecology	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance of course, written reports based on fieldwork and laboratory analysis	English
31/I_22/ L/S /W2	Biological conservation	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance of the course and student's presentation	English
32/I_22/ L/S /W2	Land reclamation and restoration using biological methods	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance of the course and presentation for specified topic concerning the topic of lecture	English
33/I_22/ L/S /W2	Biological invasions	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance of the course and presentation for specified topic concerning IAS	English
34/I_22/L/S/E/W2	Geobotanical cartography	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance of the course, student's presentation based on work during laboratories	English
35/I_22/L/S/E/W2	Numerical ecology	BSc/BA/MA	4	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance of the course	English
36/I_22/ L/E /W2	Data analysis and visualization in R	BSc/BA/MA	4	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance, written reports based on performed analyses	English
37/I_22/ L/S/E /W2	Applied ecology	BSc/BA	4	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance and presentation prepared by students based on their calculations	English

38/I_22/ L/S /W2	Fiber plants	BSc/BA	4	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance and presentation prepared by students	English
39/I_22/ L/S /W2	Anthropology and human ecology	BSc/BA	4	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance and presentation prepared by students	English
40/I_22/ L/S /W2	Ecological ethics	BSc/BA	2	W/S	Faculty of Materials, Civil and Environmental Engineering	-	English
41/I_22/ L/S /W2	Biology	BSc/BA	2	S	Faculty of Materials, Civil and Environmental Engineering	Attendance of the course, exam	English
42/I_22/ L/E /W2	Biology	BSc/BA	3	S	Faculty of Materials, Civil and Environmental Engineering	Attendance of the course, the evaluation the exercise reports given by students, work with microscope, work in groups	English
43/I_22/ L/S /W2	The basics of sustainability	BSc/BA	2	S	Faculty of Materials, Civil and Environmental Engineering	Attendance of the course, exam	English
44/I_22/ L/E /W2	The basics of sustainability	BSc/BA	2	S	Faculty of Materials, Civil and Environmental Engineering	Attendance of the course, the evaluation the exercise reports given by students	English
45/I_22/ L/S /W2	Civilizations and Inventions	BSc/BA/MA	2	W/S	Faculty of Materials, Civil and Environmental Engineering	No requirements	English
46/I_22/ L/S /W2	Green infrastructure	BSc/BA	4	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance and presentation prepared by students	English
47/I_22/ L/S /W2	Nanotechnology in Environmental Engineering	BSc/BA/MA	4	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance, project work, final exam	English
48/I_22/L/S/P/W2	Migration of pollutants in the environment	BSc/BA/MA	4	W/S	Faculty of Materials, Civil and Environmental Engineering	Attendance, project work, final exam	English
49/I_24/ L/S /W2	Highway Engineering (lecture)	BSc/BA	1	W	Faculty of Materials, Civil and Environmental Engineering	Geotechnics, Building materials, Hydrology	English
50/I_24/ L/E /W2	Highway Engineering (exercises)	BSc/BA	1	W	Faculty of Materials, Civil and Environmental Engineering	Traffic engineering	English

51/I_24/ L/S /W2	Foundations (Lectures)	BSc/BA	2	S	Faculty of Materials, Civil and Environmental Engineering	Final written exam	English
52/I_24/ L/S /W2	Soil Mechanics (Lectures)	BSc/BA	2	W	Faculty of Materials, Civil and Environmental Engineering	Final written exam	English
53/I_24/ L/E /W2	Soil Mechanics (Laboratory exercises)	BSc/BA	2	W	Faculty of Materials, Civil and Environmental Engineering	Class attendance and test from carried out practical exercises	English
54/I_24/ L/S /W2	Introduction of Quality	BSc	2	S	Faculty of Materials, Civil and Environmental Engineering	Written exam and multimedia presentation	English
55/I_24/ P /W2	Project of The Introduction of Quality	BSc/BA	1	S	Faculty of Materials, Civil and Environmental Engineering	Attendance and made the final report	English
56/I_24/ L/S /W2	European Union environmental law and management	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Exam	English
57/I_24/ L/E /W2	European Union environmental law and management	BSc/BA/MA	3	W/S	Faculty of Materials, Civil and Environmental Engineering	Seminar paper	English