

ROMANIA

‘VASILE ALECSANDRI’ UNIVERSITY OF BACAU

Faculty of Engineering

Calea Mărășești, Nr. 157, Bacău, 600115, Tel./Fax +40

234 580170

<http://inginerie.ub.ro>; e-mail: decaning@ub.ro



Field of study: Environmental engineering
Study programme: Industrial environment engineering and protection

2022-2023 academic year

CURRICULUM

1st year of study

No	Subject	Number of ECTS credits	Examination form	Semester
1.	Mathematical analysis	4	WO	1
2.	Linear algebra, analytic and differential geometry	4	WO	1
3.	Descriptive geometry	5	O	1
4.	Chemistry	4	W	1
5.	Computer programming and programming languages 1	5	W	1
6.	Communication ethics	2	O	1
7.	Materials science and engineering	3	O	1
8.	Physical education and sports 1	1	P/F	1
9.	English for engineering 1/French for engineering 1	2	O	1
10.	Special mathematics	4	WO	2
11.	Physics	4	WO	2
12.	Technical drawing and Infographics 1	3	O	2
13.	Computer programming and programming languages 2	3	O	2
14.	Ecology	4	W	2
15.	Coastal engineering	4	W	2
16.	Physical education and sports 2	1	P/F	2
17.	English for engineering 2/French for engineering 2	2	O	2
18.	Soil science	3	W	2
19.	General economics	2	O	2

W- written exam

O – oral exam

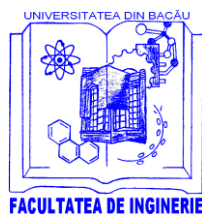
WO- written and oral exam

P/F- pass/fail

Dean,
Assoc. Prof. Ph.D. Eng.
Mirela Panainte-Leh duș

Programme coordinator,
Prof. Ph.D. Eng. V. Nedeff

Head of Department
Senior lect. Ph.D. Eng.E. Moșneguțu



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2nd year of study

No	Subject	Number of ECTS credits	Examination form	Semester
1.	General mechanics technology	4	O	1
2.	Topography	4	WO	1
3.	Environmental protection in industry	4	O	1
4.	Thermotechnics	4	W	1
5.	Transport phenomena and unit operations	5	W	1
6.	English for engineering 3/French for engineering 3	2	O	1
7.	Physical education and sports 2	1	P/F	1
8.	Water demand and water resources quality	3	WO	1
9.	Natural resources	3	O	1
10.	Technical drawing and Infographics 2	4	O	2
11.	Analysis and synthesis of industrial processes	4	WO	2
12.	Fluid mechanics	3	W	2
13.	Air quality	5	W	2
14.	English for engineering 4/French for engineering 4	2	O	2
15.	Non-conventional materials and technologies	5	W	2
16.	Hydraulic structures and constructions	3	WO	2
17.	Specialized training (3 weeks x 30 hours)	4	O	2

W- written exam

O – oral exam

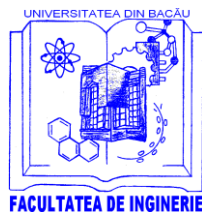
WO- written and oral exam

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3rd year of study

No	Subject	Number of ECTS credits	Examination form	Semester
1.	Air quality analysis	4	WO	1
2.	Electrotechnics and electronics	4	W	1
3.	Environmental management audit	5	W	1
4.	Occupational safety and health	4	O	1
5.	Water quality analysis	5	WO	1
6.	Lifting and transporting equipment	4	O	1
7.	Noise protection	4	O	1
8.	Industrial project management	3	O	2
9.	Procedures and techniques for environmental protection 1	5	WO	2
10.	Environmental impact assessment	4	W	2
11.	Environmental low impact technologies	3	O	2
12.	Integrated waste management	4	WO	2
13.	Civil engineering	4	W	2
14.	Environmental law	3	W	2
15.	Annual training (3 weeks x 30 hours)	4	O	2

W- written exam

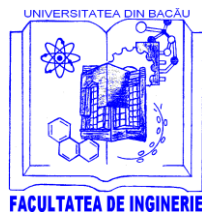
O – oral exam

WO- written and oral exam

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CURRICULUM 4th year of study

No	Subject	Number of ECTS credits	Examination form	Semester
1.	Waste management	3	WO	1
2.	Aesthetics and Industrial design	3	W	1
3.	Environmental monitoring	3	WO	1
4.	Computer-assisted design of environmental protection equipment	4	O	1
5.	Technical creativity	2	O	1
6.	Procedures and techniques for environmental protection 2	5	W	1
7.	Sewage systems	3	W	1
8.	Design and optimization of environmental protection processes	3	O	1
9.	Road traffic engineering	4	O	1
10.	Rehabilitation of industrial sites	2	O	2
11.	Sustainable development	4	W	2
12.	Entrepreneurship	3	O	2
13.	Environmental complex planning	4	W	2
14.	Ergonomics	4	W	2
15.	Risks and industrial safety	3	W	2
16.	Preparing and writing the Bachelor final project	4	O	2
17.	Training for preparing and writing the Bachelor final project (2 weeks x 30 hours)	6	O	2

W- written exam

O – oral exam

WO- written and oral exam

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