

Field: Environmental Engineering
Study programme: Industrial Environment Engineering and Protection

2023-2024 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	4	O	1
4.	Chemistry	4	W	1
5.	Computer programming and programming languages 1	6	W	1
6.	Communication	2	O	1
7.	Materials science and engineering	3	W	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

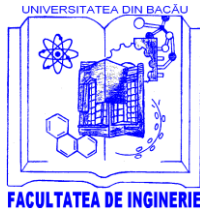
W- written exam;

O – oral exam;

WO- written and oral exam;

P/F- pass/fail;

Dean, Programme Coordinator, Head of Department,
Assoc. Prof. Ph.D. Eng. Mirela Panainte-Lehadus Prof. Ph.D. Eng. Valentin Nedeff Assoc. Prof. Ph.D. Eng. Claudia Tomozei



"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: Environmental Engineering
Study programme: Industrial Environment Engineering and Protection

2023-2024 academic year

CURRICULUM

2nd year of study

No	Subject	Number of ECTS credits	Examination form	Semester
1	Mechanical engineering	4	O	1
2.	Topography	4	WO	1
3.	Prevention and integrated control pollution	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 3	1	P/F	1
8.	Groundwater engineering	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.	Engineering of wind	4	W	2
14.	English for engineering 4 /French for engineering 4	2	O	2
15.	Environmental low impact technologies I	5	W	2
16.	Hydro-technical planning and construction	4	WO	2
17.	Training on domain (3 weeks x 30 hours)	4	O	2

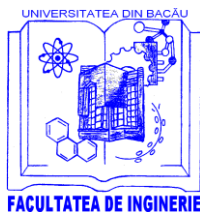
W- written exam;

O – oral exam;

WO- written and oral exam;

P/F- pass/fail;

Dean, Programme Coordinator, Head of Department,
 Assoc. Prof. Ph.D. Eng. Mirela Panainte-Lehadus Prof. Ph.D. Eng. Valentin Nedeff Assoc. Prof. Ph.D. Eng. Claudia Tomozei



”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: Environmental Engineering

Study programme: Industrial Environment Engineering and Protection

2023-2024 academic year

CURRICULUM

3rd year of study

No	Subject	Number of ECTS credits	Examination form	Semester
1	Investigation of environmental factor (air)	4	WO	1
2.	Electrotechnics and electronics	4	W	1
3.	Environmental low impact technologies II	5	O	1
4.	Occupational safety and health	3	O	1
5.	Investigation of environmental factor (water)	5	WO	1
6.	Environmental engineering specific equipment	4	O	1
7.	Vibrations and noise pollution	5	O	1
8.	Raw materials in process industries	4	O	1
9.	Environmental project management	3	O	2
10.	Procedures and techniques for environmental protection 1	3	WO	2
11.	Environmental impact assessment	4	W	2
12.	Environmental management audit	4	W	2
13.	Integrated waste management	4	WO	2
14.	Thermal efficiency of buildings and industrial processes	5	W	2
15.	Environmental law	3	W	2
16.	Specialized training (3 weeks x 30 hours)	4	O	2

W- written exam;

O – oral exam;

WO- written and oral exam;

P/F- pass/fail;

Dean,

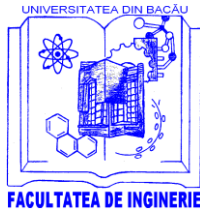
Assoc. Prof. Ph.D. Eng. Mirela Panainte-Lehadus

Programme Coordinator,

Prof. Ph.D. Eng. Valentin Nedeff

Head of Department,

Assoc. Prof. Ph.D. Eng. Claudia Tomozei



”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: Environmental Engineering
Study programme: Industrial Environment Engineering and Protection

2023-2024 academic year

CURRICULUM

4th year of study

No	Subject	Number of ECTS credits	Examination form	Semester
1	Waste management	4	WO	1
2.	Eco-design elements	3	W	1
3.	Environmental monitoring	4	W	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	7	W	1
7.	Sewage collection and transportation systems	3	W	1
8.	Conceptual design for environmental engineering	3	O	1
9.	Rehabilitation of industrial sites	2	O	2
10.	Sustainable development	4	W	2
11.	Entrepreneurship	2	O	2
12.	User safety and protection in the digital environment	1	O	2
13.	Environmental complex planning	4	W	2
14.	Ergonomics	4	O	2
15.	Smart clean technologies	3	W	2
16.	Preparing the Bachelor final project	4	O	2
17.	Training for Bachelor final project (2 weeks x 30 hours)	6	O	2

W- written exam;

O – oral exam;

WO- written and oral exam;

P/F- pass/fail;

Dean, Programme Coordinator, Head of Department,
 Assoc. Prof. Ph.D. Eng. Mirela Panainte-Lehadus Prof. Ph.D. Eng. Valentin Nedeff Assoc. Prof. Ph.D. Eng. Claudia Tomozei