

"LUCIAN BLAGA" UNIVERSITY OF SIBIU

FACULTY OF AGRICULTURAL SCIENCES, FOOD INDUSTRY AND ENVIRONMENT PROTECTION

DOMAIN OF ACADEMIC LICENSE STUDIES: ENVIRONMENTAL ENGINEERING

SPECIALIZATION: **ENGINEERING AND ENVIRONMENTAL PROTECTION IN AGRICULTURE**

LEVEL OF ACADEMIC QUALIFICATION: ENGINEER

DURATION OF STUDIES: 4 YEARS

EDUCATION FORM: FULL TIME

APPROVED BY THE RECTOR,

Prof. Ioan BONDREA, Ph.D.

CURRICULUM

Ist YEAR

No.	Compulsory subjects	Code	Ist Semester						IInd Semester					
			C	S	L	P	Verif. form	No. of credits	C	S	L	P	Verif. form	No. of credits
1	Mathematical statistics	39.08.08.F.01.O.01	2	2	-	-	E	5	-	-	-	-	-	-
2	Mathematical analysis	39.08.08.F.02.O.02	-	-	-	-	-	-	2	2	-	-	E	5
3	Applied Informatics	39.08.08.F.01.O.03	2	-	2	-	E	5	-	-	-	-	-	-
4	Chemistry	39.08.08.F.01.O.04	2	-	2	-	E	5	-	-	-	-	-	-
5	Botany	39.08.08.F.01.O.05	2	-	2	-	C	4	-	-	-	-	-	-
6	Biochemistry	39.08.08.F.02.O.06	-	-	-	-	-	-	2	-	2	-	E	5
7	Agrochemistry	39.08.08.PD.02.O.07	-	-	-	-	-	-	2	-	2	-	C	4
8	Energy basis	39.08.08.PD.02.O.08	-	-	-	-	-	-	2	-	2	-	E	5
9	Agrometeorology	39.08.08.PD.01.O.09	2	-	2	-	E	5	-	-	-	-	-	-
10	Topography	39.08.08.PD.02.O.10	-	-	-	-	-	-	2	-	2	-	E	5
11	Ecology and protection of agricultural environment	39.08.08.PD.01.O.11	2	-	2	-	C	4	-	-	-	-	-	-
12	Microbiology	39.08.08.PD.02.O.12	-	-	-	-	-	-	2	-	2	-	C	4
13	Foreign language for speciality	39.08.08.C.01.O.13 39.08.08.C.02.O.13	1	1	-	-	C	2	1	1	-	-	C	2
14	Physical education	39.08.08.C.01.O.14 39.08.08.C.02.O.14	-	2	-	-	A/R	-	-	2	-	-	A/R	-
Total compulsory hours per week			13	5	10	-	4E 3C 1A/R	30	13	5	10		4E 4C 1A/R	30
			28						28					

No	Discipline facultative	Code	Ist Semester						IInd Semester					
			C	S	L	P	Verif. form	No. of credits	C	S	L	P	Verif. form	No. of credits
15	Education psychology		2	2	-	-	PV	4	-	-	-	-	-	-
16	Pedagogy		-	-	-	-	-	-	2	2	-	-	PV	4

DEAN
Prof. Ovidiu TIȚA, Ph.D.

HEAD OF DEPARTMENT
Prof. Camelia SAVA, Ph.D

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IInd YEAR

No.	Compulsory subjects	Code	IIIrd Semester						IVth Semester					
			C	S	L	P	Verif. form	No. of credits	C	S	L	P	Verif. form	No. of credits
17	Physics	39.08.08.F.01.O.15	2	-	2		E	4						
18	Descriptive geometry and drawing	39.08.08.F.01.O.16 39.08.08.F.02.O.16	2	-	2	-	C	4	2	-	2	-	E	4
19	Fluid Mechanics	39.08.08.S.02.O.17	-	-	-	-	-	-	2	-	2	-	E	4
20	Sources, processes and pollution products	39.08.08.S.01.O.18	2	2	-	-	C	4	-	-	-	-	-	-
21	Instrumental methods of analysis in environmental protection	39.08.08.PD.02.O.19	-	-	-	-	-	-	2	-	2	-	C	4
22	Monitoring of environmental factors	39.08.08.PD.01.O.20	-	-	-	-	-	-	2	2	-	-	E	4
23	Ecopedological	39.08.08.PD.01.O.21	2	-	2	-	E	4	-	-	-	-	-	-
24	Land reclamation and control of soil erosion	39.08.08.PD.02.O.22	-	-	-	-	-	-	2	-	2	-	C	4
25	Remediation of polluted soils	39.08.08.PD.02.O.23	2	-	2	-	E	4	-	-	-	-	-	-
26	Ecophysiology	39.08.08.PD.01.O.24 39.08.08.PD.02.O.24	2	-	2	-	E	4	2	-	2	-	E	4
27	Practice	39.08.08.PD.01.O.25 39.08.08.PD.02.O.25	-	-	2,14	-	C	4	-	-	2,14	-	C	4
			2 weeks x 5 days/ week x 6 hrs/day						2 weeks x 5 days/ week x 6 hrs/day					
28	Foreign language for speciality	39.08.08.C.01.O.13 39.08.08.C.02.O.13	1	1	-	-	C	2	1	1	-	-	C	2
29	Physical education	39.08.08.C.01.O.14 39.08.08.C.02.O.14	-	2	-	-	A/R	-	-	2	-	-	A/R	-
	Total compulsory hours per week		13	5	10	-	4 E	30	13	5	12	-	4E	30
			28				4C		28				4C	

No.	Discipline facultative	Code	IIIrd Semester						IVth Semester					
			C	S	L	P	Verif. form	No. of credits	C	S	L	P	Verif. form	No. of credits
30	Psychology		2	2	-	-	PV	4	-	-	-	-	-	-
31	Didactics		-	-	-	-	-	-	2	2	-	-	PV	4

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IIIrd YEAR

No	Compulsory subjects	Code	Vth Semester						VIth Semester					
			C	S	L	P	Verif. form	No. of credits	C	S	L	P	Verif. form	No. of credits
32	Managemnt of water resources	39.08.08.S.01.O.26	2	2	-	-	E	4	-	-	-	-	-	-
33	Modern methods for prevention and control of natural disasters	39.08.08.S.02.O.27	-	-	-	-	-	-	2	2	-	-	E	4
34	Practice	39.08.08.S.01.O.28 39.08.08.S.02.O.28	-	-	2,14	-	C	4	-	-	2,14	-	C	4
			2 weeks x 5 days/ week x 6 hrs/day						2 weeks x 5 days/ week x 6 hrs/day					
35	Biotechnologies used in protecting biodiversity	39.08.08.PD.01.O.29 39.08.08.PD.02.O.29	2	-	2	-	C	4	2	-	2	-	E	4
36	Ecological reconstruction	39.08.08.PD.02.O.30	2	2	-	-	C	4	-	-	-	-	-	-
37	Hydrochemistry and water quality analysis	39.08.08.PD.02.O.31	-	-	-	-	-	-	2	-	2	-	E	4
38	Ecotoxicology	39.08.08.PD.01.O.32	-	-	-	-	-	-	1	-	2	-	E	4
39	Ecological Animal Breeding	39.08.08.PD.01.O.33	2	-	2	-	E	4	-	-	-	-	-	-
40	Integrated plant protection	39.08.08.PD.01.O.34 39.08.08.PD.02.O.34	2	-	2	-	E	4	2	-	2	-	E	4
41	Environmental Economics	39.08.08.PD.01.O.35	2	2	-	-	E	4	-	-	-	-	-	-
42	Ecological Agriculture	39.08.08.PD.01.A.36	2	-	2	-	E	4	-	-	-	-	-	-
43	Precision agriculture	39.08.08.PD.01.A.37	2	1	-	-	E	4	-	-	-	-	-	-
44	Ecological horticulture	39.08.08.PD.02.A.38	-	-	-	-	-	-	2	-	2	-	E	4
45	Protected crops	39.08.08.PD.02.A.39	-	-	-	-	-	-	2	-	2	-	E	4
Total compulsory hours per week			14	6	8	-	4E	32	12	2	10	-	4E	28
			28						24					

No	Discipline facultative	Code	Vth Semester						VIth Semester					
			C	S	L	P	Verif. form	No. of credits	C	S	L	P	Verif. form	No. of credits
46	Pedagogical practice		2	2	-	-	PV	4	2	2	-	-	PV	4

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IVth YEAR

No.	Specialization Subject Matters	Code	VIIth Semester						VIIIth Semester					
			C	S	L	P	Verif. form	No. of credits	C	S	L	P	Verif. form	No. of credits
47	Management of solid waste	39.08.08.S.01.O.36	2	2	-	-	E	5	-	-	-	-	-	-
48	Impact studies and environmental assessment	39.08.08.S.02.O.37	-	-	-	-	-	-	2	2	-	-	E	5
49	Wastewater management	39.08.08.S.02.O.38	2	-	2	-	C	2	-	-	-	-	-	-
50	Use GPS in environmental monitoring	39.08.08.S.01.O.39 39.08.08.S.02.O.39	2	-	2	-	E	5	1	-	1	-	E	4
	Diploma project		-	-	-	-	-	-	-	-	-	-	Pr.	8
	Diploma exam		-	-	-	-	-	-	-	-	-	-	E	9
	Stagiu pentru elaborarea lucrării de licență								2 weeks x 5 days/ week x 6 hrs/day					
51	Practice	39.08.08.S.01.O.12	-	-	2,14	-	C	4	-	-	-	-	-	-
			2 weeks x 5 days/ week x 6 hrs/day											

No	Preparatory Subject Matters	Code	VIIth Semester						VIIIth Semester					
			C	S	L	P	Verif. form	No. of credits	C	S	L	P	Verif. form	No. of credits
52	Management of quality environmental	39.08.08.PD.01.O.40	2	2	-	-	E	5	-	-	-	-	-	-
53	Management of environmental projects	39.08.08.PD.01.O.41 39.08.08.PD.02.O.41	2	-	-	2	E	5	1	-	-	1	E	4
54	Management of resources of sustainable development	39.08.08.C.01.O.42 39.08.08.C.02.O.42	2	-	-	2	C	4	2	2	-	-	C	5
50	Environmental legislation	39.08.08.C.02.O.43	-	-	-	-	-	-	2	2	-	-	C	4

No	Discipline conform opțiunii universităților	Code	VIIth Semester						VIIIth Semester					
			C	S	L	P	Verif. form	No. of credits	C	S	L	P	Verif. form	No. of credits
56	Integrated control of pest populations	39.08.08.OU.01.O.44	-	-	-	-	-	-	2	-	2	-	E	4

No crt	Supplementary Subject Matters	Code	VIIth Semester						VIIIth Semester					
			C	S	L	P	Verif. form	No. of credits	C	S	L	P	Verif. form	No. of credits
57	Accounting	39.08.08.C.02.O.45	-	-	-	-	-	-	2	2	-	-	C	4
	Total compulsory hours per week		14	6	4	4	4 E	30	12	8	3	1	4E	30
			28				4C		24				4C	+ 17

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