

Study program N0712A330002 – Natural Resources and Environment (ENVIM)
MSc. full time course

Program guarantor: prof. Ing. Radka Kodešová, CSc.

1st year

| | Subject | ECTS | AS | SS |
|----------------------------------|---|--------|----------|---------------|
| AAA41E | Advanced Meteorology and Climatology | 5 | 2/2 E | |
| AMA09E | Agricultural and Environmental Microbiology | 5 | 2/2 E | |
| AEA17E | Agricultural Ecology | 5 | 2/1 E | |
| ACA06E | Environmental Analytical Chemistry | 5 | 2/2 E | |
| AGA47E | Experimental Design and Statistics | 5 | 2/2 E | |
| ZBX03E | Water Resources Management | 5 | 2/2 E | |
| | 1x Compulsory Optional Subject group 1 | min 5. | AS or SS | |
| APA03Z | Excursion – Soils and Water Resources of the Czech Republic | 3 | | 3 days C |
| AWA64Z | MSc. Thesis I | 5 | | 125 hours C |
| AUA59Z | Practical Diploma Training | 5 | | 125 hours C |
| APA19E | Soil and Chemical Relationship | 5 | | 2/2 E |
| AHA17E | Soil and Plant Relationship | 5 | | 2/2 E |
| AIA04E | Soil and Water Relationship | 5 | | 2/2 E |
| APA22E | Soil Taxonomy, Survey and GIS | 5 | | 2/0 20s 4tp E |
| 63 + optional subject (5) = 68 C | | | | |

2nd year

| | Subject | ECTS | AS | SS |
|--|---|---------|-------------|-------------|
| EEA16E | Environmental Economics | 5 | 2/1 E | |
| AIA05E | Hydrogeology | 5 | 2/2 E | |
| APA17E | Modeling in Soil Science | 5 | 2/2 E | |
| APA21E | Soil Conservation and Protection | 5 | 2/2 E | |
| | 2x Compulsory Optional Subject group 1 | min. 10 | AS or SS | |
| | 2x Compulsory Optional Subject group 2 | min. 10 | AS or SS | |
| AWA63Z | MSc. Thesis II | 6+6 | 150 hours C | 150 hours C |
| APA23E | Proximal and Remote Sensing in Soil Science | 4 | | 2/1 zk |
| 36 + optional subjects (20) = 56 C in total 99 + optional subjects (25) = 124 C | | | | |

List of optional subjects ENVIM – group 1

| | Compulsory optional subject | ECTS | AS | SS |
|--------|--|------|-------|-------|
| APA14E | Environmental Soil Science | 5 | 2/2 E | |
| ZBX27E | Water in Landscape | 5 | 2/2 E | |
| AIA13E | Crop and Irrigation Systems Management | 5 | 2/2 E | 2/2 E |
| AIA08E | Hydrology | 5 | 2/2 E | 2/2 E |
| AIA10E | Hydrometeorology | 5 | 2/2 E | 2/2 E |
| ZVX24E | Hydroinformatics | 5 | | 2/2 E |
| AIA12E | Survey for Soil and Water Relationship | 5 | | 2/2 E |

List of optional subjects ENVIM – group 2

| | Compulsory optional subject | ECTS | AS | SS |
|--------|---------------------------------------|------|-----------------------|-------|
| ACA12E | Biochemistry | 5 | 2/2 E | |
| AHA39E | Environment Pollution and Remediation | 5 | 2/2 E | |
| AOA28E | Fundamentals of Plant Protection | 5 | 2/2 E | |
| AOA29E | General Phytopathology | 5 | 2/2 E | |
| ATA17E | Management of Turf and Lawn | 5 | 2/0,83 4s 4tp 6e E | |
| ACA11E | Advanced Organic Chemistry | 5 | | 2/2 E |

Explanation: AS = Autumn semester; SS = Spring semester; E = Examination; C = Credited, S = seminar, tp = terrain practice, e = excursion

The student should enrol in the Erasmus + program and should spend one semester abroad at one of our sister universities. If a student has an approved "Learning Agreement" (list of courses at a sister university) by Study Program guarantor then all fulfilled equivalent courses at a foreign university are accepted and he/she do not need to complete these courses from the curriculum here above.

State exam

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| Subject of the SE (corridor) | Subjects of the corridor |
|------------------------------|---|
| Soil and Environment | Soil and Chemical Relationship |
| | Soil Conservation and Protection |
| Water and Environment | Soil and Water Relationship |
| | Modeling in Soil Science |
| | Hydrogeology |
| Biosphere and Environment | Soil and Plant Relationship |
| | Agricultural and Environmental Microbiology |
| | Agricultural Ecology |
| Diploma thesis defence | |