

Study programme: **Environmental Engineering**Type of study: **bachelor study program**Study form: **full time form of study**Guarantor: **doc. Ing. Kristina Janečková, Ph.D.**

| St. year: 1 |                                             | 2026/2027              |    |    |      |    |    |                        |    |    |      |    |    |                               |  |
|-------------|---------------------------------------------|------------------------|----|----|------|----|----|------------------------|----|----|------|----|----|-------------------------------|--|
| Code        | Compulsory subjects                         | 1st Semester<br>winter |    |    |      |    |    | 2nd Semester<br>summer |    |    |      |    |    | Guarantee                     |  |
|             |                                             | Le                     | Pr | FE | ECTS | Cr | Ex | Le                     | Pr | FE | ECTS | Cr | Ex |                               |  |
| ZEX108E     | Fundamentals of Biology                     | 2                      | -  | -  | 6    | cr | ex |                        |    |    |      |    |    | prof. Mandák                  |  |
| ZEX111E     | Fundamentals of Ecology                     | 2                      | 1  | -  | 6    | cr | ex |                        |    |    |      |    |    | Mgr. Bulla, Dr. rer. Nat.     |  |
| ZOX102E     | Geology                                     | 2                      | 2  | -  | 6    | cr | ex |                        |    |    |      |    |    | Mgr. Santolík, Ph.D.          |  |
| RTX16Z      | Physical Training                           | -                      | 1  | -  | 1    | cr | -  |                        |    |    |      |    |    | PaedDr. Vavrla                |  |
| ZXX103Z     | Seminar I                                   | 1                      | -  | -  | 2    | cr | -  |                        |    |    |      |    |    | doc. Kumble                   |  |
| ZEX109E     | Zoology                                     | 2                      | 2  | -  | 6    | cr | ex |                        |    |    |      |    |    | prof. Růžička                 |  |
| ZEX110E     | Botany                                      |                        |    |    |      |    |    | 2                      | 2  | -  | 6    | cr | ex | doc. Kocourková               |  |
| ZOX103E     | Environmental Chemistry                     |                        |    |    |      |    |    | 2                      | 2  | -  | 6    | cr | ex | Ing. Böserle Hudcová,<br>Ph.D |  |
| ZBX122E     | Landscape Ecology                           |                        |    |    |      |    |    | 2                      | 2  | -  | 6    | cr | ex | doc. Kumble                   |  |
| TAZ37E      | Mathematics                                 |                        |    |    |      |    |    | 2                      | 2  | -  | 6    | cr | ex | doc. Gurka                    |  |
| RTX17Z      | Physical Training                           |                        |    |    |      |    |    | -                      | 1  | -  | 1    | cr | -  | PaedDr. Vavrla                |  |
| APZ01E      | Soil Science                                |                        |    |    |      |    |    | 2                      | 2  | -  | 6    | cr | ex | prof. Borůvka                 |  |
| ZUX102Z     | Workshop 1 - Global<br>Environmental Issues |                        |    |    |      |    |    | 1                      | 0  | -  | 2    | cr | -  | Ing. Zdražil, Ph.D.           |  |
| Σ           |                                             | 9                      | 6  | 0  | 27   | 6  | 4  | 11                     | 11 | 0  | 33   | 7  | 5  | 60                            |  |

Le = lecture

ECTS = credits

Pr = practical lecture

Cr = credit

FE = field excursions (days)

Ex = exam

Study programme: **Environmental Engineering**Type of study: **bachelor study program**Study form: **full time form of study**Guarantor: **doc. Ing. Kristina Janečková, Ph.D.**

| St. year: 2 |                                              | 2026/2027              |          |          |           |          |          |                        |          |          |           |          |          |                                            |  |
|-------------|----------------------------------------------|------------------------|----------|----------|-----------|----------|----------|------------------------|----------|----------|-----------|----------|----------|--------------------------------------------|--|
| Code        | Compulsory subjects                          | 3rd Semester<br>winter |          |          |           |          |          | 4th Semester<br>summer |          |          |           |          |          | Guarantee                                  |  |
|             |                                              | Le                     | Pr       | FE       | ECTS      | Cr       | Ex       | Le                     | Pr       | FE       | ECTS      | Cr       | Ex       |                                            |  |
| ZVX107E     | Air Pollution                                | 2                      | 2        | -        | 6         | cr       | ex       |                        |          |          |           |          |          | Mgr. Waldhauserová, Ph.D.                  |  |
| ZEX112E     | Environmental Data Collection and Processing | 2                      | 2        | -        | 6         | cr       | ex       |                        |          |          |           |          |          | Ing. Chajma, Ph.D.<br>Mgr. Sládeček, Ph.D. |  |
| ZGX103E     | Geographic Information Systems I             | 2                      | 2        | -        | 6         | cr       | ex       |                        |          |          |           |          |          | doc. Moudrý                                |  |
| ZUX104E     | Ecotoxicology                                | 2                      | 2        | -        | 6         | cr       | ex       |                        |          |          |           |          |          | doc. Wimmerová                             |  |
| ZVX108E     | Hydrology                                    | 2                      | 1        | -        | 6         | cr       | ex       |                        |          |          |           |          |          | doc. Máca                                  |  |
| ZXX104Z     | Seminar II                                   | 1                      | -        | -        | 2         | cr       | -        |                        |          |          |           |          |          | doc. Kumble                                |  |
| ZUX103E     | Hydrochemistry                               |                        |          |          |           |          |          | 2                      | 0        | 3        | 6         | cr       | ex       | prof. Komínková                            |  |
| ZBX101E     | Landscape Architecture                       |                        |          |          |           |          |          | 2                      | 2        | -        | 6         | cr       | ex       | doc. Kumble                                |  |
| ZXX105Z     | Seminar III                                  |                        |          |          |           |          |          | 1                      | -        | -        | 2         | cr       | -        | doc. Skaloš                                |  |
| ZUX106E     | Waste Management                             |                        |          |          |           |          |          | 2                      | 1        | -        | 6         | cr       | ex       | Ing. Hnátková, Ph.D.                       |  |
| ZBX102E     | Water Resources Engineering                  |                        |          |          |           |          |          | 2                      | 2        | -        | 6         | cr       | ex       | Ing. Gregar<br>Dr. Ing. Kravka             |  |
| ZBX101Z     | Workshop 2 - Renewable Resources             |                        |          |          |           |          |          | 1                      | -        | -        | 2         | cr       | -        | prof. Sklenička                            |  |
| <b>Σ</b>    |                                              | <b>11</b>              | <b>9</b> | <b>0</b> | <b>32</b> | <b>6</b> | <b>5</b> | <b>10</b>              | <b>5</b> | <b>3</b> | <b>28</b> | <b>6</b> | <b>4</b> | <b>60</b>                                  |  |

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| St. year: 3 | 2026/2027                              |                        |    |    |      |    |    |                        |    |    |      |    |    |                        |
|-------------|----------------------------------------|------------------------|----|----|------|----|----|------------------------|----|----|------|----|----|------------------------|
| Code        | Compulsory subjects                    | 5th Semester<br>winter |    |    |      |    |    | 6th Semester<br>summer |    |    |      |    |    | Guarantee              |
|             |                                        | Le                     | Pr | FE | ECTS | Cr | Ex | Le                     | Pr | FE | ECTS | Cr | Ex |                        |
| ZUX107E     | Environmental Assessment               | 2                      | 1  | -  | 5    | cr | ex |                        |    |    |      |    |    | doc. Keken             |
| ZBX103E     | Land Management I                      | 2                      | 2  | -  | 6    | cr | ex |                        |    |    |      |    |    | doc. Janečková         |
| ZBX104E     | Ecological Restoration and Engineering |                        |    |    |      |    |    | 0                      | 2  | 3  | 5    | cr | ex | Mgr. Simon, Ph.D.      |
| ZVX109E     | Global Change and Water Resources      |                        |    |    |      |    |    | 2                      | 1  | -  | 5    | cr | ex | Mgr. Martínková, Ph.D. |
| ZXX106Z     | Bachelor Thesis                        |                        |    |    |      |    |    | -                      | -  | -  | 30   | cr | -  | Supervisor             |
|             | Elective Subjects - Group 1            | -                      | -  | -  | 5    | cr | -  |                        |    |    |      |    |    |                        |
|             | Elective Subjects - Group 2            |                        |    |    |      |    |    | -                      | -  | -  | 5    | cr | ex |                        |
| Σ           |                                        | 4                      | 3  | 0  | 16   | 2  | 2  | 2                      | 3  | 3  | 45   | 4  | 3  | 61                     |

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| Code                                                                                    | Elective subjects                         | 5th Semester<br>winter |    |    |      |    |    | 6th Semester<br>summer |    |    |      |    |    | Guarantee           |
|-----------------------------------------------------------------------------------------|-------------------------------------------|------------------------|----|----|------|----|----|------------------------|----|----|------|----|----|---------------------|
|                                                                                         |                                           | Le                     | Pr | FE | ECTS | Cr | Ex | Le                     | Pr | FE | ECTS | Cr | Ex |                     |
| Elective Subjects - Group 1                                                             |                                           |                        |    |    |      |    |    |                        |    |    |      |    |    |                     |
| The student must take one core elective course Type 1 during the 3rd year of the study. |                                           |                        |    |    |      |    |    |                        |    |    |      |    |    |                     |
| ZBX105Z                                                                                 | CAD                                       | -                      | 3  | -  | 5    | cr | -  |                        |    |    |      |    |    | Ing. Mañas, Ph.D.   |
| ZEX103Z                                                                                 | Laboratory Methods                        | -                      | 3  | -  | 5    | cr | -  |                        |    |    |      |    |    | doc. Kocourková     |
| Elective Subjects - Group 2                                                             |                                           |                        |    |    |      |    |    |                        |    |    |      |    |    |                     |
| The student must take one core elective course Type 2 during the 3rd year of the study. |                                           |                        |    |    |      |    |    |                        |    |    |      |    |    |                     |
| ZUX115E                                                                                 | Carbon Footprint and Reduction Strategies |                        |    |    |      |    |    | 2                      | 1  | -  | 5    | cr | ex | doc. Chen           |
| ZEX103E                                                                                 | Nature Conservation                       |                        |    |    |      |    |    | 2                      | 1  | -  | 5    | cr | ex | RNDr. Plesník, CSc. |
| ZBX106E                                                                                 | Spatial Planning                          |                        |    |    |      |    |    | 2                      | 1  | -  | 5    | cr | ex | doc. Kumble         |