

| CIVIL ENGINEERING BSC FROM 2025                                                  |                   |     |    |    |      |       |      |                                                 |                     |                      |
|----------------------------------------------------------------------------------|-------------------|-----|----|----|------|-------|------|-------------------------------------------------|---------------------|----------------------|
| Specialization in Infrastructure Engineering                                     |                   |     |    |    |      |       |      |                                                 |                     |                      |
| Core subjects                                                                    |                   |     |    |    |      |       |      |                                                 |                     |                      |
| Subject Name                                                                     | Code              | Cr. | LE | SE | LA   | S/M/E | Sem. | Preliminary Req. I                              | Preliminary Req. II | Preliminary Req. III |
| Mathematics Support Course                                                       | BMETEMIBsMMAT0-00 | 3   | 2  |    |      | M     | 1    |                                                 |                     |                      |
| Mathematics A1                                                                   | BMETEMIBsMMAT1-00 | 6   | 4  | 1  |      | E     | 1    |                                                 |                     |                      |
| Statics Support Course                                                           | BMEEOTMbsFC001-00 | 3   | 2  |    |      | M     | 1    |                                                 |                     |                      |
| Statics                                                                          | BMEEOTMbsFC002-00 | 5   | 1  | 4  |      | E     | 1    |                                                 |                     |                      |
| Civil Engineering Representation and Drawing                                     | BMEEDEMbsFC001-00 | 3   | 2  |    |      | M     | 1    |                                                 |                     |                      |
| Geology                                                                          | BMEEOGMbsFC001-00 | 3   | 1  |    | 2    | E     | 1    |                                                 |                     |                      |
| Surveying I.                                                                     | BMEEAFBsFC001-00  | 4   | 1  |    | 2    | E     | 1    |                                                 |                     |                      |
| Programming Basics                                                               | BMEEFTBsFC001-00  | 3   |    |    | 2    | M     | 1    |                                                 |                     |                      |
| Civil Engineering Orientation                                                    | BMEEODHbsFC001-00 | 0   | 1  | 1  |      | S     | 1    |                                                 |                     |                      |
| Mathematics A2                                                                   | BMETEMIBsMMAT2-00 | 6   | 4  | 1  |      | E     | 2    | F *TEMIBsMMAT1-00                               |                     |                      |
| Strength of Materials                                                            | BMEEOTMbsFC003-00 | 5   | 1  | 3  |      | E     | 2    | A *EOTMbsFC002-00                               | F *EOTMbsFC001-00   |                      |
| Environmental Protection                                                         | BMEEOVKbsFC001-00 | 4   | 2  | 1  |      | M     | 2    |                                                 |                     |                      |
| Building Constructions I.                                                        | BMEEDEMbsFC002-00 | 5   | 2  | 1  | 2    | M     | 2    | F *EOEMbsFC001-00                               |                     |                      |
| Soil Mechanics                                                                   | BMEEOGMbsFC002-00 | 4   | 2  | 2  |      | E     | 2    | F *EOTMbsFC002-00                               | F *EOGMBsFC001-00   |                      |
| Surveying II.                                                                    | BMEEAFBsFC002-00  | 4   | 1  |    | 2    | E     | 2    | A *EOAFBsFC001-00                               |                     |                      |
| Surveying Field Course                                                           | BMEEAFBsFC003-00  | 2   |    |    | 48 f | M     | 2    | P *EOAFBsFC002-00                               |                     |                      |
| PE 1                                                                             |                   | 0   |    |    |      | S     | 2    |                                                 |                     |                      |
| Mathematics A3                                                                   | BMETEMIBsMMAT3-00 | 3   | 1  | 2  |      | M     | 3    |                                                 |                     |                      |
| Civil Engineering Mechanics                                                      | BMEEOTMbsFC004-00 | 3   | 2  |    |      | M     | 3    | F *EOTMbsFC002-00                               | A *EOTMbsFC003-00   |                      |
| Basis of Design                                                                  | BMEEOHSbsFC001-00 | 3   | 2  |    |      | M     | 3    | F *EOTMbsFC002-00                               |                     |                      |
| Earthworks                                                                       | BMEEOGMbsFC003-00 | 3   | 1  | 1  |      | E     | 3    | A *EOGMBsFC002-00                               |                     |                      |
| Construction Materials and Civil Engineering Chemistry                           | BMEEDEMbsFC003-00 | 6   | 3  |    | 2    | E     | 3    | A *EOTMbsFC002-00                               |                     |                      |
| Roads                                                                            | BMEEOVVbsFC001-00 | 4   | 2  | 1  |      | E     | 3    |                                                 |                     |                      |
| Hydraulics                                                                       | BMEEOVVbsFC001-00 | 3   | 1  | 1  |      | E     | 3    |                                                 |                     |                      |
| AEC Digitalization                                                               | BMEEFTBsFC002-00  | 5   | 2  |    | 1    | M     | 3    | F *EOFTBsFC001-00                               |                     |                      |
| PE 2                                                                             |                   | 0   |    |    |      | S     | 3    |                                                 |                     |                      |
| Role of Civil Engineers in Sustainability                                        | BMEEDEMbsFC004-00 | 3   | 2  |    |      | M     | 4    | F *EOVKbsFC001-00                               |                     |                      |
| Steel Structures I.                                                              | BMEEOHSbsFC002-00 | 3   | 2  | 1  |      | M     | 4    | F *EOTMbsFC003-00                               | A *EOTMbsFC004-00   | F *EOHSbsFC001-00    |
| Reinforced Concrete Structures I.                                                | BMEEOHSbsFC003-00 | 3   | 2  | 1  |      | M     | 4    | F *EOTMbsFC003-00                               | A *EOTMbsFC004-00   | F *EOHSbsFC001-00    |
| Public Works                                                                     | BMEEOVKbsFC002-00 | 3   | 2  |    |      | E     | 4    |                                                 |                     |                      |
| Railway Tracks                                                                   | BMEEOVVbsFC002-00 | 4   | 2  | 1  |      | E     | 4    |                                                 |                     |                      |
| Construction Management I.                                                       | BMEEPEKbsXKIV1-00 | 4   | 2  | 1  |      | M     | 4    | F *EOEMbsFC002-00                               | F *EOGMBsFC002-00   |                      |
| Basics of Hydraulic Engineering                                                  | BMEEOVVbsFC002-00 | 6   | 2  | 2  |      | E     | 4    |                                                 |                     |                      |
| Foundation Engineering                                                           | BMEEOGMbsFC004-00 | 4   | 1  | 2  |      | E     | 4    | F *EOGMBsFC002-00                               | A *EOGMBsFC003-00   | A *EOTMbsFC003-00    |
| Economic & Human Subjects                                                        |                   |     |    |    |      |       |      |                                                 |                     |                      |
| Economic & Human Subjects 01                                                     |                   | 3   |    |    |      |       | 5    |                                                 |                     |                      |
| Economic & Human Subjects 02                                                     |                   | 3   |    |    |      |       | 6    |                                                 |                     |                      |
| Economic & Human Subjects 03                                                     |                   | 5   |    |    |      |       | 7    |                                                 |                     |                      |
| Economic & Human Subjects 04                                                     |                   | 3   |    |    |      |       | 8    |                                                 |                     |                      |
| English courses                                                                  |                   |     |    |    |      |       |      |                                                 |                     |                      |
| English for Civil Engineering 1.                                                 | BMEGT60LNGKA03-00 | 4   |    |    |      |       | 1    |                                                 |                     |                      |
| English for Civil Engineering 2.                                                 | BMEGT60LNGKA04-00 | 4   |    |    |      |       | 2    |                                                 |                     |                      |
| Elective subject                                                                 |                   | 4   |    |    |      |       | 7    |                                                 |                     |                      |
| Specialization in Infrastructure Engineering                                     |                   |     |    |    |      |       |      |                                                 |                     |                      |
| Subject Name                                                                     | Code              | Cr. | LE | SE | LA   | S/M/E | Sem. | Preliminary Req. I                              | Preliminary Req. II | Preliminary Req. III |
| Pavement Structures of Roads                                                     | BMEEOVVbsFS018-00 | 3   | 2  |    |      | E     | 5    | F *EOUVbsFC001-00                               |                     |                      |
| Railway Track Superstructure                                                     | BMEEOVVbsFS019-00 | 3   | 2  |    |      | M     | 5    | F *EOUVbsFC002-00                               |                     |                      |
| Hydrology                                                                        | BMEEOVVbsFS002-00 | 6   | 2  | 2  |      | E     | 5    | F *EOUVbsFC002-00                               |                     |                      |
| Public Works Design and Operation                                                | BMEEOVKbsFS003-00 | 6   | 3  | 1  |      | E     | 5    | F *EOVKbsFC002-00                               |                     |                      |
| Basics of Environmental Modelling                                                | BMEEOVKbsFS002-00 | 3   | 1  | 1  |      | M     | 5    | F *EOVKbsFC001-00                               |                     |                      |
| Water Quality Management                                                         | BMEEOVKbsFS005-00 | 3   | 2  | 1  |      | M     | 5    | F *EOVKbsFC001-00                               |                     |                      |
| Compulsory Elective 1                                                            |                   | 3   |    |    |      |       | 5    |                                                 |                     |                      |
| Urban Transport and Development                                                  | BMEEOVVbsFS020-00 | 4   | 2  |    |      | E     | 6    | F *EOUVbsFC001-00                               |                     |                      |
| Urban Rail Transit Systems                                                       | BMEEOVVbsFS021-00 | 5   | 2  | 1  |      | E     | 6    | F *EOUVbsFC002-00                               | F *EOUVbsFS019-00   |                      |
| Drinking Water and Wastewater Treatment                                          | BMEEOVKbsFS006-00 | 6   | 3  | 1  |      | E     | 6    | P *EOVKbsFS005-00                               |                     |                      |
| Hydraulic Design                                                                 | BMEEOVVbsFS001-00 | 6   | 2  | 2  |      | E     | 6    | F *EOUVbsFC001-00                               |                     |                      |
| Hydrometric Field Course                                                         | BMEEOVVbsFS006-00 | 2   |    |    | 24f  | M     | 6    | F *EOUVbsFC002-00                               |                     |                      |
| Compulsory Elective 2                                                            |                   | 3   |    |    |      |       | 6    |                                                 |                     |                      |
| Design of Railroads                                                              | BMEEOVVbsFS022-00 | 3   | 2  |    |      | E     | 7    | F *EOUVbsFC002-00                               |                     |                      |
| Highway Design                                                                   | BMEEOVVbsFS023-00 | 3   | 2  |    |      | E     | 7    | F *EOUVbsFC001-00                               |                     |                      |
| River and Lake Management                                                        | BMEEOVVbsFS008-00 | 5   | 1  | 2  |      | M     | 7    | F *EOUVbsFS001-00                               |                     |                      |
| Nature-based Solutions in Water Management                                       | BMEEOVKbsFS007-00 | 6   | 2  | 2  |      | E     | 7    | F *EOUVbsFS002-00                               | F *EOVKbsFS002-00   |                      |
| Internship <sup>a</sup>                                                          | BMEEOVVbsFS007-00 | 0   |    |    |      | S     | 7    | F *EPEKbsXKIV1-00                               | F *EOUVbsFS001-00   | F *EOVKbsFS003-00    |
| Internship <sup>b</sup>                                                          | BMEEOVVbsFS024-00 | 0   |    |    |      | S     | 7    | F *EPEKbsXKIV1-00                               | F *EOUVbsFS018-00   | F *EOUVbsFS019-00    |
| Compulsory Elective 3                                                            |                   | 3   |    |    |      |       | 7    |                                                 |                     |                      |
| Project work                                                                     | BMEEOVVbsFS014-00 | 6   | 2  |    |      | M     | 7    | 150 credits in core and specialisation subjects |                     |                      |
| Project work                                                                     | BMEEOVKbsFS015-00 | 6   | 2  |    |      | M     | 7    | 150 credits in core and specialisation subjects |                     |                      |
| Project work                                                                     | BMEEOVVbsFS025-00 | 6   | 2  |    |      | M     | 7    | 150 credits in core and specialisation subjects |                     |                      |
| Bachelor Thesis                                                                  | BMEEOVVbsFS015-00 | 15  |    | 1  |      | M     | 8    | According to Dean's Order                       |                     |                      |
| Bachelor Thesis                                                                  | BMEEOVKbsFS016-00 | 15  |    | 1  |      | M     | 8    | According to Dean's Order                       |                     |                      |
| Bachelor Thesis                                                                  | BMEEOVVbsFS026-00 | 15  |    | 1  |      | M     | 8    | According to Dean's Order                       |                     |                      |
| Compulsory Elective Subjects of the Specialization in Infrastructure Engineering |                   |     |    |    |      |       |      |                                                 |                     |                      |
| Subject Name                                                                     | Code              | Cr. | LE | SE | LA   | S/M/E | Sem. | Preliminary Req. I                              | Preliminary Req. II | Preliminary Req. III |
| Earthworks and Drainage of Transportation Infrastructure                         | BMEEOGMbsFS011-00 | 3   | 2  |    |      | M     |      | F *EOGMBsFC003-00                               | F *EOUVbsFC002-00   |                      |
| Point Cloud Technologies                                                         | BMEEFTBsFS001-00  | 3   | 1  |    | 1    | M     |      |                                                 |                     |                      |
| Geoinformatics                                                                   | BMEEFTBsFS003-00  | 3   | 1  |    | 1    | M     |      |                                                 |                     |                      |
| Engineering Geology                                                              | BMEEOGMbsFS008-00 | 3   | 1  | 1  |      | E     |      | F *EOGMBsFC001-00                               |                     |                      |
| Blue-green Infrastructure                                                        | BMEEOVKbsFS012-00 | 3   | 1  | 1  |      | M     |      | F *EOVKbsFC001-00                               |                     |                      |
| Hydraulic Structures                                                             | BMEEOVVbsFS012-00 | 3   | 1  | 1  |      | M     |      | F *EOUVbsFC002-00                               |                     |                      |
| Economic & Human Subjects                                                        |                   |     |    |    |      |       |      |                                                 |                     |                      |
| Subject Name                                                                     | Code              | Cr. | LE | SE | LA   | S/M/E | Sem. | Preliminary Req. I                              | Preliminary Req. II | Preliminary Req. III |
| Transversal skills development subjects - Career support                         |                   |     |    |    |      |       |      |                                                 |                     |                      |
| Argumentation and Logic                                                          | BMEGT41BX4K000-00 | 3   | 2  |    |      | M     |      |                                                 |                     |                      |
| Communication Skills                                                             | BMEGT43BX4K000-00 | 3   | 2  |    |      | M     |      |                                                 |                     |                      |
| Making a Presentation                                                            | BMEGT51BX4K001-00 | 3   | 3  |    |      | M     |      |                                                 |                     |                      |
| Psychology of Becoming a Leader                                                  | BMEGT52BX4K000-00 | 3   | 2  |    |      | M     |      |                                                 |                     |                      |
| Workplace Success and Intrapersonal Skills                                       | BMEGT52BX4K002-00 | 3   | 2  |    |      | M     |      |                                                 |                     |                      |
| Transversal skill development subjects - Social integration                      |                   |     |    |    |      |       |      |                                                 |                     |                      |
| Ethical Decision and Action                                                      | BMEGT41BX4T001-00 | 3   | 2  |    |      | M     |      |                                                 |                     |                      |
| Social Challenges of Climate Change                                              | BMEGT42BX4T000-00 | 3   | 2  |    |      | M     |      |                                                 |                     |                      |
| Law in the Economy                                                               | BMEGT55BX4T000-00 | 3   | 2  |    |      | M     |      |                                                 |                     |                      |
| Legal Basics                                                                     | BMEGT55BX4T002-00 | 3   | 2  |    |      | M     |      |                                                 |                     |                      |
| Create Smart! - IP Basics in Practice                                            | BMEGT55BX4T004-00 | 3   | 2  |    |      | M     |      |                                                 |                     |                      |
| Transversal skill development subjects - Business subject group                  |                   |     |    |    |      |       |      |                                                 |                     |                      |
| Introduction to Management Decisions                                             | BMEGT20BX4U000-00 | 3   | 1  | 1  |      | M     |      |                                                 |                     |                      |
| Economic Analysis of Technology                                                  | BMEGT30BX4U000-00 | 3   | 2  |    |      | M     |      |                                                 |                     |                      |
| Finance                                                                          | BMEGT35BX4U000-00 | 3   | 2  |    |      | M     |      |                                                 |                     |                      |
| Accounting                                                                       | BMEGT35BX4U001-00 | 3   | 2  |    |      | M     |      |                                                 |                     |                      |
| Economics of Sustainable Development                                             | BMEGT42BX4U000-00 | 3   | 2  |    |      | M     |      |                                                 |                     |                      |
| Circular Economy                                                                 | BMEGT42BX4U001-00 | 3   | 2  |    |      | M     |      |                                                 |                     |                      |

These are the courses that must be completed in advance (marked in green) in order to enter the specialization, with an average grade of 3.0.

• Roads BMEEOVVbsFC001-00

• Public Works BMEEOVKbsFC002-00

• Basics of Hydraulic Engineering BMEEOVVbsFC002-00

Mobility window semesters: 5th and 8th semesters. In the case of mobility, a preliminary credit recognition procedure must be initiated at the KKB.