

Bachelorstudiengang Bauingenieurwesen – Wahlpflichtmodule Gr. 2 und Gr. 3 (ab BPO 2018)

| Modulname Modulname (Englisch) | Empf. Sem. | Modulart PF/ WP | Angebots- häufig- keit | Dauer | Ver- wend- barkeit im Stu- dien- gang+) | Voraus- setzungen für die Teilnahme * PVL | Prüfungs- | | Studentische Arbeitsbelastung (in Zeitstunden) | | LP | SWS | |
|-----------------------------------|------------|-----------------------|------------------------------|-------|--|---|-----------|------------------|--|---------------|----|-----|--|
| | | | | | | | art | form/ dauer*) | Präsenz- studium | Selbststudium | | | |

| Wahlpflichtmodule Gruppe 2 (Elective Modules Group 2) | | | | | | | | | | | 15-0 | | |
|---|-----|----|--------------|---|---|--|-------|-------|----|----|-------------|---|-----------------|
| Asset Management im Verkehrswesen (Asset Management in Traffic Engineering) | 5/6 | WP | WiSe | 1 | B | | SL/PL | PB/R | 54 | 96 | 5 | 4 | FBR 05.07.22 |
| Ausgewählte Kapitel des Stahlbetonbaus (Selected Topics of Reinforced Concrete Construction) | 5/6 | WP | WiSe | 1 | B | | SL/PL | KA/K2 | 54 | 96 | 5 | 4 | |
| Betontechnologie (Concrete Technology) | 5/6 | WP | WiSe SoSe | 1 | B | | SL/PL | KA/K2 | 54 | 96 | 5 | 4 | |
| BIM im Verkehrsinfrastrukturbau (BIM in transport infrastructure engineering) | 5/6 | WP | SoSe | 1 | B | | SL/PL | PB/R | 54 | 96 | 5 | 4 | FBR 28.03.23 |
| Konstruieren im Stahlbetonbau Kopplung CAD-FEM (Construction in reinforced Concrete Construction - combining CAD) | 5/6 | WP | SoSe | 1 | B | | SL/PL | KA/K2 | 54 | 96 | 5 | 4 | |
| Massivbrücken (Solid Bridges) | 5/6 | WP | SoSe | 1 | B | | SL/PL | KA/K2 | 54 | 96 | 5 | 4 | |
| Mauerwerksbau (Masonry Construction) | 5/6 | WP | SoSe | 1 | B | | SL/PL | KA/K2 | 54 | 96 | 5 | 4 | |
| Modellierung Geotechnischer Probleme in EDV-Programmen | 5/6 | WP | WiSe SoSe | 1 | B | | SL/PL | KA/K2 | 54 | 96 | 5 | 4 | |

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|---|-----|----|--------------|---|---------|--|-------|---------|----|----|-----------|---|-----------------|
| <i>(Modeling geotechnical problems using EDP software)</i> | | | | | | | | | | | | | |
| Personalführung <i>(Human Resource Management)</i> | 5/6 | WP | WiSe SoSe | 1 | B | | SL/PL | KA/K2 | 54 | 96 | 5 | 4 | |
| Projektentwicklung <i>(Project Development)</i> | 5/6 | WP | WiSe | 1 | B | | SL/PL | KA/K2 | 54 | 96 | 5 | 4 | |
| Qualitätsmanagement und SiGeKo <i>(Quality Management and Coordination of Health and Safety Issues)</i> | 5/6 | WP | SoSe | 1 | B | | SL/PL | KA/K2 | 54 | 96 | 5 | 4 | |
| Recht des Ingenieurs und Projektmanagers <i>(Rights of the Engineer and the Project Manager)</i> | 5/6 | WP | WiSe | 1 | B | | SL/PL | KA/K2 | 54 | 96 | 5 | 4 | |
| Sanierung von Rohrleitungen <i>(Rehabilitation of Pipelines)</i> | 5/6 | WP | WiSe SoSe | 1 | B | | SL/PL | KA/K2 | 54 | 96 | 5 | 4 | |
| Schallschutz <i>(Noise Insulation)</i> | 5/6 | WP | SoSe | 1 | B | | SL/PL | KA/K2 | 54 | 96 | 5 | 4 | |
| Verbundbau <i>(Composite Construction)</i> | 5/6 | WP | SoSe | 1 | B | | SL/PL | KA/K2 | 54 | 96 | 5 | 4 | |
| Regenwasserbewirtschaftung <i>(Stormwater Management)</i> | 5/6 | WP | WiSe SoSe | 1 | B | | SL/PL | KA | 54 | 96 | 5 | 4 | FBR 10.10.23 |
| Grundlagen des Planens und Bauens im Bestand <i>(Basics of planning and building in existing buildings)</i> | 5/6 | WP | SoSe | 1 | B, BWI | | SL/PL | K1/KA/R | 54 | 96 | 5 | 4 | FBR 13.02.24 |
| Wahlpflichtmodule Gruppe 3 (Elective Modules Group 3) | | | | | | | | | | | 10 | | |
| Anwendung | 5/6 | WP | WiSe | 1 | BWI, B, | | SL | KA | 27 | 48 | 2,5 | 2 | FBR |

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|--|-----|----|--------------|---|-------------|--|----|-----|----|----|-----|---|-----------------|
| baubetriebswirtschaftlicher Software des BRZ <i>(Business software applications for the construction industry)</i> | | | SoSe | | BIT | | | | | | | | 29.06.21 |
| Ausgewählte Themen der Baukonstruktion (Selected topics in building constructions) | 5/6 | WP | SoSe | 1 | B, BWI | | SL | H+M | 27 | 48 | 2,5 | 2 | FBR 28.03.23 |
| Bauunternehmensmanagement (Construction company management) | 5/6 | WP | WiSe | 1 | B | | SL | KA | 27 | 48 | 2,5 | 2 | FBR 05.07.22 |
| BIM-Kollaboration (BIM Collaboration) | 5/6 | WP | WiSe | 1 | B, BWI, BIT | | SL | H | 54 | 96 | 5 | 4 | FBR 22.03.22 |
| Digitales Engineering <i>(Digital Engineering)</i> | 5/6 | WP | WiSe SoSe | 1 | B, BWI, BIT | | SL | KA | 54 | 96 | 5 | 4 | FBR 13.04.21 |
| Energiewende baulich und kommunikativ begleiten <i>(Renewable Energy transition - support in building and communication projects)</i> | 5/6 | WP | WiSe | 1 | B | | SL | KA | 27 | 48 | 2,5 | 2 | |
| European Integration & Management (engl.) | 5/6 | WP | SoSe | 1 | BWI, B, BIT | | SL | KA | 54 | 96 | 5 | 4 | |
| Exkursion – Baubetriebswesen (Excursion – Construction Management) | 5/6 | WP | SoSe | 1 | B | | SL | KA | 27 | 48 | 2,5 | 2 | FBR 05.07.22 |
| Freies Vertiefungsprojekt <i>(Open Project)</i> | 5/6 | WP | WiSe SoSe | 1 | B, BWI, BIT | | SL | KA | 54 | 96 | 5 | 4 | FBR 29.06.21 |
| Geotechnische Projekte in Planung und Ausführung <i>(Planning and Execution of Geotechnical Projects)</i> | 5/6 | WP | WiSe SoSe | 1 | B | | SL | KA | 54 | 96 | 5 | 4 | |
| Grundlehrgang Schweißfachingenieur | 5/6 | WP | SoSe | 1 | B | | SL | KA | 54 | 96 | 5 | 4 | |

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| <i>(Basic Course Welding Engineer)</i> | | | | | | | | | | | | | |
| Innovative Bauprodukte (Innovative building products) | 5/6 | WP | SoSe | 1 | B, BWI, BIT | | SL | KA | 27 | 48 | 2,5 | 2 | FBR 28.03.23 |
| International Economics (engl.) | 5/6 | WP | WiSe | 1 | BWI, B, BIT | | SL | KA | 54 | 96 | 5 | 4 | |
| International Real Estate Markets (engl.) | 5/6 | WP | WiSe | 1 | B, BWI | | SL | KA | 54 | 96 | 5 | 4 | FBR 13.04.21 |
| Internationales Management im Bauwesen <i>(International Management)</i> | 5/6 | WP | SoSe | 1 | BWI (PF), B | | SL | KA | 54 | 96 | 5 | 4 | |
| IT Projekt Baubetrieb/BIM <i>(IT Project Building Operations/BIM)</i> | 5/6 | WP | WiSe SoSe | 1 | B | | SL | KA | 54 | 96 | 5 | 4 | |
| Kaufmännische Abwicklung von Bau-Arbeitsgemeinschaften <i>(Commercial Execution of Construction Consortia)</i> | 5/6 | WP | WiSe | 1 | BWI, B, BIT | | SL | KA | 54 | 96 | 5 | 4 | FBR 29.06.21 |
| Kommunikation in Projekten <i>(Communication in Building Projects)</i> | 5/6 | WP | WiSe | 1 | B | | SL | KA | 27 | 48 | 2,5 | 2 | |
| Konjunktur und Wachstum in der Bauwirtschaft <i>(Macroeconomic Issues of the Building Sector)</i> | 5/6 | WP | WiSe | 1 | BWI, B, BIT | | SL | KA | 54 | 96 | 5 | 4 | |
| Rechnungslegung und Jahresabschlussprüfung im Unternehmen <i>(Accounting and Annual Auditing in Enterprises)</i> | 5/6 | WP | WiSe SoSe | 1 | BWI, B | | SL | KA | 27 | 48 | 2,5 | 2 | |
| Schadstoffe in Gebäuden <i>(Contamination in Buildings)</i> | 5/6 | WP | SoSe | 1 | B | | SL | KA | 54 | 96 | 5 | 4 | |

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| Strategische (Bau-)Unternehmensentwicklung: Organisation und Prozesse <i>(Strategic Development of (Construction-)Companies: Organisation and Processes)</i> | 5/6 | WP | WiSe SoSe | 1 | BWI, B, BIT | | SL | KA | 27 | 48 | 2,5 | 2 | FBR 29.06.21 |
| Thermografie an Gebäude- und energietechnischen Anlagen <i>(Thermal Imaging of Building Structure and Services)</i> | 5/6 | WP | WiSe | 1 | B | | SL | KA | 27 | 48 | 2,5 | 2 | |
| Short-term in-country university placements <i>(Short-term in-country university placements)</i> | 5/6 | WP | WiSe SoSe | 1 | B, BWI | | SL | KA/PB/R | 27 | 48 | 2,5 | 2 | FBR 10.10.23 |
| IELTS Mock Exam Preparation Course <i>(IELTS Mock Exam Preparation Course)</i> | 5/6 | WP | SoSe | 1 | B, BWI, BIT | | SL | Arbeitsm appe | 27 | 123 | 5 | 2 | FBR 19.12.23 |
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