FH MÜNSTER
University of Applied Sciences

# Anlage: Studienplan

**Dualer Bachelorstudiengang Gebäudetechnik - Smart Building Engineering**

**Abkürzungen:**
V = Vorlesung; S = Seminar; P = Praktikum; Ü = Übung; SU = Seminaristischer Unterricht; LP = Leistungspunkte; PE = Prüfungselement; MP = Modulprüfung; LN = Leistungsnachweis; TP = Teilprüfung der Modulprüfung; SWS = Semesterwochenstunde/n

**Datum:** 20.01.2022

| Module | 1. Semester | | | | | | | 2. Semester | | | | | | | 3. Semester | | | | | | | 4. Semester | | | | | | | 5. Semester | | | | | | | 6. Semester | | | | | | | 7. Semester | | | | | | | Summe | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SWS | | | | | LP | PE | SWS | | | | | LP | PE | SWS | | | | | LP | PE | SWS | | | | | LP | PE | SWS | | | | | LP | PE | SWS | | | | | LP | PE | SWS | | | | | LP | PE | SWS | LP |
| | V | S | P | Ü | SU | | | V | S | P | Ü | SU | | | V | S | P | Ü | SU | | | V | S | P | Ü | SU | | | V | S | P | Ü | SU | | | V | S | P | Ü | SU | | | V | S | P | Ü | SU | | | | |
| Mathematik I | 5 | 0 | 0 | 2 | 0 | 7 | MP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | 7 |
| Physik | 3 | 0 | 0 | 1 | 0 | 5 | MP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 5 |
| Smart Building Engineering 1 | 2 | | 1 | 1 | | 5 | LN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 5 |
| Werkstoffkunde | 2 | 0 | 1 | 0 | 0 | 5 | MP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 5 |
| Betriebswirtschaftslehre | 3 | 0 | 0 | 1 | 0 | 5 | MP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 5 |
| Technische Mechanik | 2 | 0 | 0 | 1 | 0 | 3 | | 2 | 0 | 0 | 1 | 0 | 3 | MP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 6 | 6 |
| Grundlagen der Chemie | | | | | | | | 3 | 0 | 0 | 1 | 0 | 5 | MP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 5 |
| Mathematik II | | | | | | | | 3 | 0 | 0 | 2 | 0 | 5 | MP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 5 |
| Strömungstechnik | | | | | | | | 3 | 0 | 1 | 1 | 0 | 5 | MP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 5 |
| Thermodynamik | | | | | | | | 3 | 0 | 0 | 1 | 0 | 5 | MP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 5 |
| Elektrotechnik | | | | | | | | 2 | 0 | 0 | 1 | 0 | 3 | | 3 | 0 | 1 | 1 | 0 | 5 | MP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | 8 |
| Konstruktionselemente und CAD | | | | | | | | 2 | 0 | 2 | 0 | 0 | 5 | | 2 | 0 | 0 | 1 | 0 | 4 | MP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | 9 |
| Feuerungstechnik | | | | | | | | | | | | | | | 3 | 0 | 1 | 1 | 0 | 5 | MP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 5 |
| Praxis-Integrationsmodul 1 | | | | | | | | | | | | | | | | 1 | | | | 5 | LN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 5 |
| Steuerungs- und Regelungstechnik | | | | | | | | | | | | | | | 3 | 0 | 1 | 1 | 0 | 6 | MP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 6 |
| Wärmeübertragung | | | | | | | | | | | | | | | 2 | 0 | 1 | 1 | 0 | 4 | MP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 4 |
| Energetische Gebäudebewertung | | | | | | | | | | | | | | | | | | | | | | 2 | 0 | 1 | 2 | 0 | 6 | MP | | | | | | | | | | | | | | | | | | | | | | | | 5 | 6 |
| Gastechnik | | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 1 | 1 | 2 | 4 | MP | | | | | | | | | | | | | | | | | | | | | | | | 4 | 4 |
| Gebäudeautomation | | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 1 | 1 | 3 | 5 | MP | | | | | | | | | | | | | | | | | | | | | | | | 5 | 5 |
| Praxisintegrations-Modul 2 | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | 5 | LN | | | | | | | | | | | | | | | | | | | | | | | | 1 | 5 |
| Raumlufttechnik | | | | | | | | | | | | | | | | | | | | | | 3 | 0 | 1 | 1 | 0 | 5 | TP | 2 | 0 | 1 | 2 | 0 | 5 | TP | | | | | | | | | | | | | | | | | 10 | 10 |
| Sanitärtechnik | | | | | | | | | | | | | | | | | | | | | | 2 | 0 | 1 | 2 | 0 | 5 | | 2 | 0 | 1 | 2 | 0 | 5 | MP | | | | | | | | | | | | | | | | | 10 | 10 |
| Heizungstechnik | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 0 | 1 | 2 | 0 | 5 | MP | | | | | | | | | | | | | | | | | 5 | 5 |
| Kältetechnik | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 1 | 2 | 5 | MP | | | | | | | | | | | | | | | | | 3 | 5 |
| Praxisintegrations-Modul 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | 5 | LN | | | | | | | | | | | | | | | | 1 | 5 |
| Integriertes Planen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 0 | 0 | 2 | 0 | 5 | | 0 | 0 | 0 | 3 | 1 | 8 | MP | | | | | | | | | 9 | 13 |
| Anlagenautomation und GA Planung | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 1 | 3 | 5 | MP | | | | | | | | | 4 | 5 |
| Wahlpflichtmodul 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 5 | MP | | | | | | | | | 4 | 5 |
| Gebäude-Energietechnik | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 4 | 5 | LN | | | | | | | | | 4 | 5 |
| Bachelorseminar (Wissenschaftl. Arbeiten) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 2 | 0 | 0 | 0 | 2 | LN | | | | | | | | | 2 | 2 |
| Wahlpflichtmodul 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 4 | 5 | MP | | | | | | | | | 4 | 5 |
| Praxisintegrations-Projekt | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | MP | 0 | 15 |
| Bachelorarbeit mit Kolloquium | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 0 | 15 |
| **Summe SWS / LP / PE** | 17 | 0 | 2 | 6 | 0 | *30* | 4 | 18 | 0 | 3 | 7 | 0 | *31* | 5 | 13 | 1 | 4 | 5 | 0 | *29* | 5 | 7 | 1 | 5 | 7 | 5 | *30* | 4 | 9 | 1 | 3 | 9 | 2 | *30* | 4 | 0 | 2 | 0 | 4 | 16 | *30* | 4 | 0 | 0 | 0 | 0 | 0 | *30* | 1 | 147 | 210 |
| | 25 | | | | | | | 28 | | | | | | | 23 | | | | | | | 25 | | | | | | | 24 | | | | | | | 22 | | | | | | | 0 | | | | | | | | |