

Institute of Civil Engineering
 Faculty of Media

Civil Engineering Programme (B. Eng.)

Curriculum V4 (effective summer semester 2022)

1. Semester 32,5 Credit Points (CP)	Mathematics I (7,5 CP)	Structural Engineering I (7,5 CP)	Technology of Building Materials I (5 CP)	CAD	Construction Chemistry and Environmental Sustainability (5 CP)	CivEng-Project Part I (5 CP)	Electives from study module catalogue Availability starting 1. semester	Electives „Interdisciplinary Studies“ Availability starting 1. semester
2. Semester 30 Credit Points (CP)	Mathematics II (7,5 CP)	Structural Engineering II (5 CP)	Technology of Building Materials II (5 LP)	(5 CP)	Soil Mechanics (5 CP)	Structural Design I (5 CP)		
3. Semester 30 Credit Points (CP)	Basics of Transportation Engineering (5 CP)	Concrete Constructions I (5 CP)	Steel Constructions I (5 CP)	Hydro-mechanics (5 CP)	Building Physics (5 CP)	Foundation Engineering (5 CP)		
4. Semester 30 Credit Points (CP)	Structural Design II (5 CP)	Sustainable Planning and Mobility (5 LP)	Urban Management and Regional Planning I (5 LP)	Water-Management and Hydraulic Engineering (5 CP)	Surveying (5 CP)	CivEng-Project Part II (5 CP)		
5. Semester 30 Credit Points (CP)	Compulsory Internship + Internship Report (30 CP)							
6. Semester 22,5 CP + major	Building Law (5 CP)	Building Preservation (5 CP)	Construction Operations (7,5 CP)	Building Information Modeling (5 CP)	Electives from major* (20 CP)			
7. Semester 5 CP + major	Building Informatics and Numerical Methods (5 CP)							
8. Semester 15 Credit Points (CP)	Thesis (12 CP)			Colloquium (3 CP)				

White = Compulsory Modules (1. - 8. Sem.)

Grey = at least 4 electives (à 5 CP) from chosen major acc. § 3 Abs.1 Satz 5 PVO

Green = Electives from study module catalogue acc. § 3 Abs.1 Satz 5 PVO

Orange = Electives „Interdisciplinary Studies“ minimum 5 CP combined needed for credit acc. § 4 Abs. 2 PVO

 * majors:

- Structural Engineering: „Steel Constructions II“, „Concrete Constructions II“, „Timber Constructions“, „Advanced Complex Structures“, „Structural Design with FEM-Applications“, „Special Topics of Structural Engineering“, „Project Thesis ,Structural Engineering“
- Transportation Engineering & Infrastructure: „Railway Transportation“, „Road Construction“, „Introduction to Spatial Planning“, „Urban Management and Regional Planning II“, „Pavement Construction Practices and Laboratory“, „Special Topics of Transportation Engineering & Infrastructure“, „Project Thesis ,Transportation Engineering & Infrastructure“
- Hydraulic Engineering & Coastal Protection: „River Engineering & Flood Protection“, „Coastal Engineering“, „Sanitary Engineering“, „Structural Hydraulic Engineering“, „Special Topics of Hydraulic Engineering & Coastal Protection“, „Project Thesis , Hydraulic Engineering & Coastal Protection “
- Green Building (starting Summer Semester 2022): „Building Services Engineering“, „Legal Framework for Energy Consulting“, „Building Simulation“, „Planning of Energy Efficient Buildings“, „Special Topics of Green Building“, „Project Thesis ,Green Building“