Overview of the modules in the bachelor program Civil Engineering
Specialization **"Infrastructure Planning"**

Modul	Pt.	Credit Points (CrP)						
		BE 1	BE 2	BE 3	BE 4	BE 5	BE 6	BE 7
Computer Science in AEC (CAD/BIM)		5						
Building Construction and Degree Program Project Week - Building Construction 1 (4 ECTS) - Partial Module: Degree Program Project Week (SEPW) (1 ECTS)		5						
Materials Sciences		5						
Geometry and Mathematics - Descriptive Geometry (2 ECTS) - Mathematics 1 (3 ECTS)		5						
Principles of Infrastructural Engineering		5						
Structural Concepts 1		5						
SUM		**30**						
Building Construction 2			5					
Building Physics 1			5					
Mathematics 2			5					
Pavement Design and Materials 1			5					
Structural Concepts 2			5					
Water Resources Engineering 1			5					
SUM			**30**					
Rail Systems and Railroad Engineering				5				
Soil Mechanics 1				5				
Building Law and Civil Engineering Management - Civil Engineering Management (3 ECTS) - Building Law (2 ECTS)				5				
Project Management 1				5				
Reinforced Concrete Design 1				5				
Structural Concepts 3				5				
SUM				**30**				
Construction Management and Calculation					5			
Building Physics 2					5			
Foundation Engineering 1					5			
Urban Water Management 1					5			
Reinforced Concrete Design 2					5			
Surveying					5			
SUM					**30**			
Tendering, Awarding of Contracts + Accounting						5		
Urban Planning and EIA - Urban Planning (2 CrP) - Strategic Environmental Assessment (SEA) and Environmental Impact Assessment (EIA) (3 CrP)						5		

Modul	Pt.	Credit Points (CrP)						
		BE 1	BE 2	BE 3	BE 4	BE 5	BE 6	BE 7
Geographical Information Systems						5		
Highway Design and Materials 2						5		
Transport Engineering						5		
Water Resources Management 2: Engineering Hydrology and Water Supply						5		
SUM						**30**		
Infrastructure Planning Project							5	
Sanitary Engineering 2							5	
Transport Planning and Public Transport Systems							5	
Elective Module 1							5	
Elective Module 2							5	
Elective Module 3							5	
SUM							**30**	
Practical Vocational Phase								15
Bachelor Thesis								12
Bachelor Thesis: Presentation and Colloquium								3
SUM								**30**

Legend

	Basics and Theory
	Design and Planning
	Construction and Engineering
	Infrastructure Planning
	Project Management
	Elective Modules

Elective Modules of the specialization "Infrastructure Planning"		Pt.	CrP
Area Project Management	Knowledge Relating to Occupational Safety and Health		5
	Building Construction Processes 1		5
	Construction Management Project		5
	Integrative Project		5
	EDV – Application in Construction Management and Project Management		5
Area Infrastructure	Applied Water Management		5
	Computer Application of Traffic Engineering		5
Area Construction	Structural Analysis 1		5
	Structural Analysis 2		5
	Introduction to Bridge Engineering		5
	Foundation Engineering 2		5
	Timber Construction - basics		5
	Timber Construction Project		5
	Integrated Project / Structural Design		5
	Solid Construction 1 with Project		5
	Solid Construction 2 with Project		5
	Steel Construction 1		5
	Steel Construction 2		5
	Tunnel Construction and Pipe Jacking		5
Comprehensive Modules	Computer Science in AEC Project		5
	Building Construction 5 (TGA)		5
	Energy Efficient Building		5
	European Architecture and Civil Engineering		5
	Resource-saving design		5
	Elective Module (Department Marketing and Communication)		5
	Elective Module (THM)		5

Bachelor Civil Engineering specialization “Infrastructure Planning”

1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester	6th Semester	7th Semester
Computer Science in AEC (CAD/BIM) 5 ECTS	Building Physics 1 5 ECTS	Reinforced Concrete Design 1 5 ECTS	Building Physics 2 5 ECTS	Tendering, Awarding of Contracts + Accounting 5 ECTS	Elective Module 1 5 ECTS	Practical Vocational Phase 15 ECTS
Building Construction 1 4 ECTS SEPW 1 ECTS	Building Construction 2 5 ECTS	Soil Mechanics 1 5 ECTS	Surveying 5 ECTS	Geographical Information Systems 5 ECTS	Elective Module 2 5 ECTS	
Structural Concepts 1 5 ECTS	Structural Concepts 2 5 ECTS	Structural Concepts 3 5 ECTS	Foundation Engineering 1 5 ECTS	Urban Planning and EIA 5 ECTS	Elective Module 3 5 ECTS	
Mathematics 1 3 ECTS Descriptive Geometry 2 ECTS	Mathematics 2 5 ECTS	Civil Engineering Management 3 ECTS Building Law 2 ECTS	Reinforced Concrete Design 2 5 ECTS	Highway Design and Materials 2 5 ECTS	Infrastructure Planning Project 5 ECTS	Bachelor Thesis with Presentation and Colloquium 15 ECTS
Materials Sciences 5 ECTS	Pavement Design and Materials 1 5 ECTS	Project Management 1 5 ECTS	Construction Management and Calculation 5 ECTS	Transport Engineering 5 ECTS	Sanitary Engineering 2 5 ECTS	
Principles of Infrastructural Engineering 5 ECTS	Water Resources Engineering 1 5 ECTS	Rail Systems and Railroad Engineering 5 ECTS	Urban Water Management 1 5 ECTS	Water Resources Management 2 5 ECTS	Transport Planning and Public Transport Systems 5 ECTS	

Legend

Basics and Theory	Construction and Engineering	Infrastructure Planning	Project Management	Elective Modules