

# Course overview ABP and CME 2022-2023

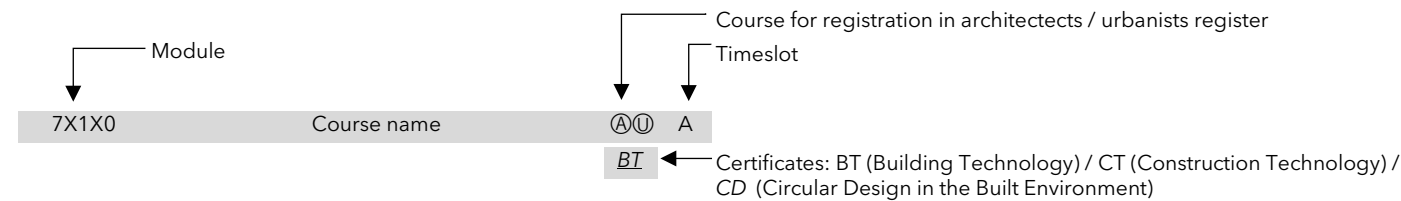
For the ABP-tracks SUMT and SMDSA see separate overviews

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For the latest version check [educationguide.tue.nl/gs/abp](http://educationguide.tue.nl/gs/abp)

Core course
Specialization elective
Elective
Graduation project

All courses are worth 5 ECTS, unless indicated otherwise  
Courses with a \* are given every quarter



	Quarter 1	Quarter 2	Quarter 3	Quarter 4	
ABP	AUDE C15-S30-E30-G45	7QX5M0 Seminar urbanism and architecture * (A) A	7QX5M0 Seminar urbanism and architecture * (A) A	7QX5M0 Seminar urbanism and architecture * (A) A	7QX5M0 Seminar urbanism and architecture * (A) A
		7QW5M0 Research in urbanism and architecture II (A) B	7QW6M0 Architectural and urban theory (A) B	7QX2M0 Masterproject 2 architecture (10 ECTS)	7QW2M0 Masterproject 2 urbanism (10 ECTS)
		7QX1M0 Masterproject 1 architecture (10 ECTS)		7QW1M0 Masterproject 1 urbanism (10 ECTS)	7XW1M0 Combined masterstudio Architecture and Urban Design (10 ECTS)
		7QW1M0 Masterproject 1 urbanism (10 ECTS)		7XW1M0 Combined masterstudio Architecture and Urban Design (10 ECTS)	7QW3M0 Urban planet
BPS C30-S30-E15-G45	7LS3M0 Sustainable buildings A	7S880 Lighting technology C	7LS9M0 Heat, air and moisture transfer / CFD1 BC	7LY4M0 Building services and fire safety B	
	7LY3M0 Building performance C	7LY6M0 Materials panorama A	7LS8M0 Architectural acoustics D	7LS6M0 Heat, air and moisture transfer / CFD2 E	
	7LS0M0 BPS masterproject design (10 ECTS) X		7LS0M0 BPS masterproject design (10 ECTS) X		
	7LS1M0 BPS masterproject A, research (10 ECTS) X		7LS1M0 BPS masterproject A, research (10 ECTS) X		
	7LS2M0 BPS masterproject B, research (10 ECTS) X		7LS2M0 BPS masterproject B, research (10 ECTS) X		
	7LY5M0 Data science for Intelligent buildings B		7LL7M0 Capita selecta lighting technology A	7LY7M0 Techniques in architectural acoustics D	
SED C25-S30-E20-G45	7KP4M0 Advanced concrete structures DE	7KP3M0 Advanced steel and aluminum structures E	7KP6M0 Energy and finite elements methods E	7KP7M0 Stability of structures A	
	7PP5M0 Resource efficient SED A	7KT1M0 Structural design, capita selecta B	7KS2M0 Design project high rise building (10 ECTS) A		
	7KP2M0 Design project large span structure (10 ECTS) C		7KP2M0 Design project large span structure (10 ECTS) C		
	7KP1M0 Research project (10 ECTS) X		7KP1M0 Research project (10 ECTS) X		
	7KT8M0 Finite element method, non-linear <sup>1)</sup> B	7KT4M0 Digital design & manufacturing (2.5 ECTS) A	7KK1M0 Geotechnics, soil mechanics, seismic struct. design A	7KT9M0 Structural design with glass (2,5 EC) <sup>3)</sup> D	
	7PP4M0 Advanced timber structures <sup>2)</sup> B				
USRE C25-S30-E20-G45	7ZW3M0 Urban planning II (U) E	7ZU3M0 Managing place and property C	7ZW7M0 Urban research methods C	7ZW4M0 Built environment and smart mobility (U) C	
	7ZU4M0 Econometric analysis of housing markets B	7ZW5M0 Smart healthy urban environments D	7ZM8M0 Collaborative design A	7ZM5M0 Process modeling and information management D	
	7ZZ9M0 Design science and systems engineering B	7M900 Fundamentals of BIM E	7ZM1M0 Research and development project (10 ECTS) B		
	7ZM1M0 Research and development project (10 ECTS) AC		7ZU2M0 Project: Redevelopment of problem areas (10 ECTS) B		
	7ZU1M0 Project: Housing portfolio management (10 ECTS) A		7ZW1M0 Big data for urban & transportation analysis/project (10 ECTS) E		
			7U772 Corporate real estate strategy D		
CME C30-S35-E15-G40	7ZZ9M0 Design science and systems engineering B	1CM900 Project management (2.5 ECTS) C	7ZM8M0 Collaborative design A	7ZM5M0 Process modeling & information management D	
	7ZM3M0 Case study process modeling (2.5 ECTS) D	7ZW5M0 Smart healthy urban environments D	1ZM65 System dynamics D	7ZW4M0 Built environment and smart mobility (U) C	
	7ZZ6M0 Legal & governance aspects X	7M900 Fundamentals of BIM E	7ZM1M0 Research and development project (10 ECTS) B		
	7ZM1M0 Research and development project (10 ECTS) AC		7ZW1M0 Big data for urban & transportation analysis/project (10 ECTS) E		
	7ZW3M0 Urban planning II (U) E	1ZM20 Technology entrepreneurship A	7ZW7M0 Urban research methods C		
		1ZM120 Entrepreneurial marketing B	7ZM7M0 Parametric design (CT) A		
All programs	7KS1M0 Masterproject building technology (BT) AC	7LL1M0 Sports and building aerodynamics A	7KP8M0 Smart building methodology & technology (BT) C	7KP9M0 Building technology with extreme complexity (BT) E	
	7QQ1M0 Architectural expression * (A) B3	7QQ1M0 Architectural expression * (A) B3	7LY8M0 Smart cities B	7QQ1M0 Architectural expression * (A) B3	
	7QQ3M0 Arts and architecture E	7QX7M0 Architectural analysis (A) A	7QQ1M0 Architectural expression * (A) B3	7QX7M0 Architectural analysis (A) E	
	7QW7M0 Theory and practice of the public domain (U) E	7KS3M0 Practical assignment "Bouwkundewinkel" * X	7QQ2M0 Constructing architecture (A) D	7XX4M0 The thinking eye D	
	7QX8M0 Urban form (A) (U) E	7QW8M0 The built-up heritage over time (A) (U) A	7QQ3M0 Arts and architecture E	7KS3M0 Practical assignment "Bouwkundewinkel" * X	
	7RC100 Inner-city modular high-rise (CT) E		7QX6M0 Architecture and philosophy (A) B	7RC50 Master project construction plan (CT) X	
	7XX4M0 The thinking eye D		7QX8M0 Urban form (A) (U) E		
	7XC1M0 Circularity in the built environment (CD) A		7ZW6M0 History of housing and cities D		
	7KS3M0 Practical assignment "Bouwkundewinkel" * X		7KS3M0 Practical assignment "Bouwkundewinkel" * X		
			7XC2M0 Circularity research a/o design project (10 ECTS) (CD) A		
			7CBL1M0 Challenge based learning-smart cities (10 ECTS) A		
	7_AWE0 Internship academic work experience (AUDE: 7QAW0, BPS: 7SAWE0, SED: 7KAW0, USRE/CME: 7ZAW0)			15 ECTS	
	7_RWE0 Internship relevant work experience (AUDE: 7QRWE0, BPS: 7SRWE0, SED: 7KRWE0, USRE/CME: 7ZRWE0)			5 ECTS	
	7QQ5M0 International academic workshop			5 ECTS	
7_45M0 Graduation Project (AUDE A: 7X45M0, AUDE UD: 7W45M0, BPS: 7S45M0, SED: 7K45M0, USRE: 7Z45M0)			45 ECTS		
7X60M0 Graduation Project AUDE A+UD			60 ECTS		
7CC40 Graduation Project CME			40 ECTS		

1) 7KT8M0 replaces the 2,5 EC course **7KT7M0 Finite element method, non-linear**. In 2022-2023 you can only take exams for 7KT7M0, for the last time.  
 2) 7PP4M0 replaces the 2,5 EC course **7PP3M0 Advanced timber structures**. In 2022-2023 you can only take exams for 7PP3M0, for the last time.  
 3) 7KT9M0 replaces the 5 EC course **7KT2M0 Structural design with glass and other materials**. In 2022-2023 you can only take exams for 7KT2M0, for the last time.