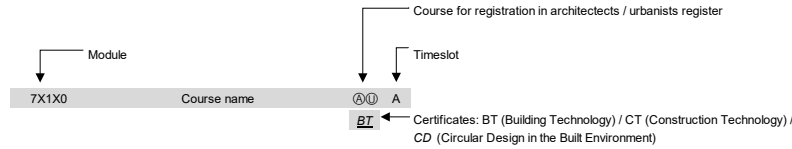


Master programs ABP and CME 2021-2022

For the ABP-tracks SUMT and SMDA see separate overviews

Version: 31-08-2021
For the latest version, check educationguide.tue.nl/gb/abp

Core course
Specialization elective
Elective
Graduation project



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

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
AUDE C15-S30-E30-G45	7QX5M0 Seminar urbanism and architecture * (A) (A) A 7QW5M0 Research in urbanism and architecture 2 (A) (A) B 7QX1M0 M1 project architecture (10 ECTS) (A) DC 7QW1M0 M1 project urbanism (10 ECTS) (A) DC 7XW1M0 Combined masterstudio Architecture and Urban Design (10 ECTS) (A) (A) DC	7QX5M0 Seminar urbanism and architecture * (A) (A) A 7QW6M0 Architectural and urban theory (A) (A) B 7XW9M0 Urban trends and strategies (A) D 7QX3M0 Architectural engineering (A) D	7QX5M0 Seminar urbanism and architecture * (A) (A) A 7QX2M0 M2 project architecture (10 ECTS) (A) DC 7QW2M0 M2 project urbanism (10 ECTS) (A) DC 7XW1M0 Combined masterstudio Architecture and Urban Design (10 ECTS) (A) (A) DC	7QX5M0 Seminar urbanism and architecture * (A) (A) A 7QW3M0 Urban planet (A) D
	7LS3M0 Sustainable buildings A 7LY3M0 Building performance C 7LS0M0 BPS masterproject design (10 ECTS) X 7LS1M0 BPS masterproject A, research (10 ECTS) X 7LS2M0 BPS masterproject B, research (10 ECTS) X 7LY5M0 Intelligent buildings B	7S880 Lighting technology C 7LY6M0 Materials panorama A 7LS0M0 BPS masterproject design (10 ECTS) X 7LS1M0 BPS masterproject A, research (10 ECTS) X 7LS2M0 BPS masterproject B, research (10 ECTS) X 7LL7M0 Capita selecta lighting technology A	7LS9M0 Heat, air and moisture transfer / CFD1 BC 7LS8M0 Architectural acoustics D 7LS0M0 BPS masterproject design (10 ECTS) X 7LS1M0 BPS masterproject A, research (10 ECTS) X 7LS2M0 BPS masterproject B, research (10 ECTS) X 7LL7M0 Capita selecta lighting technology A	7LY4M0 Building services and fire safety B 7LS6M0 Heat, air and moisture transfer / CFD2 E 7LY7M0 Techniques in architectural acoustics D
BPS C30-S30-E15-G45	7KP4M0 Advanced concrete structures DE 7PP5M0 Resource efficient SED A 7KP2M0 Design project large span structure (10 ECTS) 7KP1M0 Research project (10 ECTS) X 7KT7M0 Finite element method, non-linear (2.5 ECTS) B 7PP3M0 Advanced timber structures (2.5 ECTS) B	7KP3M0 Advanced steel and aluminum structures E 7KT1M0 Structural design, capita selecta B 7KT4M0 Digital design & manufacturing (2.5 ECTS) A	7KP6M0 Energy and finite elements methods E 7KS2M0 Design project high rise building (10 ECTS) X 7KP2M0 Design project large span structure (10 ECTS) X 7KP1M0 Research project (10 ECTS) X 7KK1M0 Geotechnics/Seismic A	7KP7M0 Stability of structures A 7KS2M0 Design project high rise building (10 ECTS) X 7KP2M0 Design project large span structure (10 ECTS) X 7KP1M0 Research project (10 ECTS) X 7KT2M0 Structural design with glass and other materials D
	7KP4M0 Advanced concrete structures DE 7PP5M0 Resource efficient SED A 7KP2M0 Design project large span structure (10 ECTS) 7KP1M0 Research project (10 ECTS) X 7KT7M0 Finite element method, non-linear (2.5 ECTS) B 7PP3M0 Advanced timber structures (2.5 ECTS) B	7KP3M0 Advanced steel and aluminum structures E 7KT1M0 Structural design, capita selecta B 7KT4M0 Digital design & manufacturing (2.5 ECTS) A	7KP6M0 Energy and finite elements methods E 7KS2M0 Design project high rise building (10 ECTS) X 7KP2M0 Design project large span structure (10 ECTS) X 7KP1M0 Research project (10 ECTS) X 7KK1M0 Geotechnics/Seismic A	7KP7M0 Stability of structures A 7KS2M0 Design project high rise building (10 ECTS) X 7KP2M0 Design project large span structure (10 ECTS) X 7KP1M0 Research project (10 ECTS) X 7KT2M0 Structural design with glass and other materials D
SED C25-S30-E20-G45	7ZU3M0 Urban planning 2 (A) E 7ZU4M0 Econometric analysis of housing markets B 7ZZ9M0 Design science and systems engineering B 7ZM1M0 Project: Research and development project (10 ECTS) 7ZU1M0 Project: Housing portfolio management (10 ECTS) A	7ZU3M0 Managing place and property C 7ZU5M0 Smart healthy urban environments D 7M900 Fundamentals of BIM E 7ZU1M0 Project: Research and development project (10 ECTS) AC 7ZU1M0 Project: Housing portfolio management (10 ECTS) A	7ZW7M0 Urban research methods C 7ZM8M0 Collaborative design A 7ZM1M0 Project: Research and development project (10 ECTS) 7ZU2M0 Project: Redevelopment of problem areas (10 ECTS) 7ZW1M0 Project: Big data for urban analysis (10 ECTS) 7U772 Corporate real estate strategy D 7ZM7M0 Parametric design CT A	7ZW4M0 Built environment and smart mobility (A) C 7ZM5M0 Process modeling & information management D 7ZM5M0 Process modeling & information management D 7ZW4M0 Built environment and smart mobility (A) C 7ZM5M0 Process modeling & information management D 7ZM5M0 Process modeling & information management D
	7ZU3M0 Urban planning 2 (A) E 7ZU4M0 Econometric analysis of housing markets B 7ZZ9M0 Design science and systems engineering B 7ZM1M0 Project: Research and development project (10 ECTS) 7ZU1M0 Project: Housing portfolio management (10 ECTS) A	7ZU3M0 Managing place and property C 7ZU5M0 Smart healthy urban environments D 7M900 Fundamentals of BIM E 7ZU1M0 Project: Research and development project (10 ECTS) AC 7ZU1M0 Project: Housing portfolio management (10 ECTS) A	7ZW7M0 Urban research methods C 7ZM8M0 Collaborative design A 7ZM1M0 Project: Research and development project (10 ECTS) 7ZU2M0 Project: Redevelopment of problem areas (10 ECTS) 7ZW1M0 Project: Big data for urban analysis (10 ECTS) 7U772 Corporate real estate strategy D 7ZM7M0 Parametric design CT A	7ZW4M0 Built environment and smart mobility (A) C 7ZM5M0 Process modeling & information management D 7ZM5M0 Process modeling & information management D 7ZW4M0 Built environment and smart mobility (A) C 7ZM5M0 Process modeling & information management D 7ZM5M0 Process modeling & information management D
USRE C25-S30-E20-G45	7ZZ9M0 Design science and systems engineering B 7ZM3M0 Case study process modeling (2.5 ECTS) D 7ZZ6M0 Legal & governance aspects X 7ZM1M0 Project: Research and development project (10 ECTS) 7ZW3M0 Urban planning 2 (A) E	1CM900 Project management (2.5 ECTS) C 7ZW5M0 Smart healthy urban environments D 7M900 Fundamentals of BIM E 1ZM20 Technology entrepreneurship A 1ZM120 Entrepreneurial marketing B	7ZM8M0 Collaborative design A 1ZM65 System dynamics D 7ZM1M0 Project: Research and development project (10 ECTS) 7ZW1M0 Project: Big data for urban analysis (10 ECTS) 7ZW7M0 Urban research methods C 7ZM7M0 Parametric design CT A	7ZM5M0 Process modeling & information management D 7ZW4M0 Built environment and smart mobility (A) C 7ZM5M0 Process modeling & information management D 7ZW4M0 Built environment and smart mobility (A) C 7ZM5M0 Process modeling & information management D 7ZM5M0 Process modeling & information management D
	7ZZ9M0 Design science and systems engineering B 7ZM3M0 Case study process modeling (2.5 ECTS) D 7ZZ6M0 Legal & governance aspects X 7ZM1M0 Project: Research and development project (10 ECTS) 7ZW3M0 Urban planning 2 (A) E	1CM900 Project management (2.5 ECTS) C 7ZW5M0 Smart healthy urban environments D 7M900 Fundamentals of BIM E 1ZM20 Technology entrepreneurship A 1ZM120 Entrepreneurial marketing B	7ZM8M0 Collaborative design A 1ZM65 System dynamics D 7ZM1M0 Project: Research and development project (10 ECTS) 7ZW1M0 Project: Big data for urban analysis (10 ECTS) 7ZW7M0 Urban research methods C 7ZM7M0 Parametric design CT A	7ZM5M0 Process modeling & information management D 7ZW4M0 Built environment and smart mobility (A) C 7ZM5M0 Process modeling & information management D 7ZW4M0 Built environment and smart mobility (A) C 7ZM5M0 Process modeling & information management D 7ZM5M0 Process modeling & information management D
CME C30-S30-E15-G40	7KS1M0 Masterproject building technology BT AC 7QQ1M0 Architectural expression * (A) B3 7QQ3M0 Arts and architecture E 7QW7M0 Theory and practice of the public domain (A) E 7QX8M0 Urban form (A) E 7RC100 Inner-city modular high-rise CT E 7XX4M0 The thinking eye D 7XC1M0 Circularity in the built environment CD A 7KS3M0 Practical assignment "Bouwkundewinkel" * X	7LL1M0 Sports and building aerodynamics A 7QQ1M0 Architectural expression * (A) B3 7QX7M0 Architectural analysis (A) A 7KS3M0 Practical assignment "Bouwkundewinkel" * X 7KK3M0 Design & construction E 7QW8M0 The built-up heritage over time (A) (A) A	7KP8M0 Smart building methodology & technology BT C 7LY8M0 Smart cities B 7QQ1M0 Architectural expression * (A) B3 7QX2M0 Constructing architecture (A) D 7QX3M0 Arts and architecture E 7QX6M0 Architecture and philosophy (A) B 7QX8M0 Urban form (A) E 7ZW6M0 History of housing and cities D 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	7KK3M0 Design & construction E 7KP9M0 Building technology with extreme complexity BT E 7QQ1M0 Architectural expression * (A) B3 7QX7M0 Architectural analysis (A) E 7XX4M0 The thinking eye D 7KS3M0 Practical assignment "Bouwkundewinkel" * X 7RC50 Master project construction plan CT 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
	7KS1M0 Masterproject building technology BT AC 7QQ1M0 Architectural expression * (A) B3 7QQ3M0 Arts and architecture E 7QW7M0 Theory and practice of the public domain (A) E 7QX8M0 Urban form (A) E 7RC100 Inner-city modular high-rise CT E 7XX4M0 The thinking eye D 7XC1M0 Circularity in the built environment CD A 7KS3M0 Practical assignment "Bouwkundewinkel" * X	7LL1M0 Sports and building aerodynamics A 7QQ1M0 Architectural expression * (A) B3 7QX7M0 Architectural analysis (A) A 7KS3M0 Practical assignment "Bouwkundewinkel" * X 7KK3M0 Design & construction E 7QW8M0 The built-up heritage over time (A) (A) A	7KP8M0 Smart building methodology & technology BT C 7LY8M0 Smart cities B 7QQ1M0 Architectural expression * (A) B3 7QX2M0 Constructing architecture (A) D 7QX3M0 Arts and architecture E 7QX6M0 Architecture and philosophy (A) B 7QX8M0 Urban form (A) E 7ZW6M0 History of housing and cities D 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	7KK3M0 Design & construction E 7KP9M0 Building technology with extreme complexity BT E 7QQ1M0 Architectural expression * (A) B3 7QX7M0 Architectural analysis (A) E 7XX4M0 The thinking eye D 7KS3M0 Practical assignment "Bouwkundewinkel" * X 7RC50 Master project construction plan CT 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
All programs	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			
	7_45M0 Graduation Project (AUDE A: 7X45M0, AUDE UD: 7W45M0, BPS: 7S45M0, SED: 7K45M0, USRE: 7Z45M0) 45 ECTS 7X6M0 Graduation Project AUDE A+UD 60 ECTS 7CC40 Graduation Project CME 40 ECTS		You can start a graduation project every quarter You can start in Q1 and Q3 You can start a graduation project every quarter	