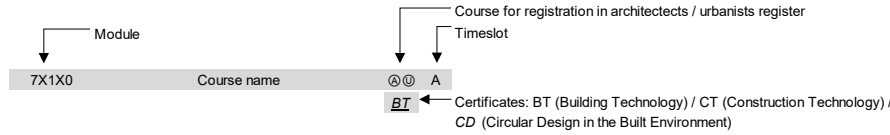


# Master programs ABP and CME 2020-2021

Version: 03-07-2020  
For the latest version, check [educationguide.tue.nl/gs/abp](http://educationguide.tue.nl/gs/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

ABP	AUDE C15-S30-E30-G45	7QX5M0 Seminar Urbanism and Architecture * A @ A 7QW6M0 Architectural and Urban Theory A @ B 7QX1M0 M1 project Architecture (10 ECTS) A DC 7QW1M0 M1 project Urbanism (10 ECTS) DC 7XW1M0 Combination project Architecture/Urbanism (10 ECTS) A @ DC 7XX9M0 Urban Trends and Strategies A 7QX3M0 Architectural Engineering A D	7QX5M0 Seminar Urbanism and Architecture * A @ A 7QW5M0 Research in Urbanism and Architecture A @ B	7QX5M0 Seminar Urbanism and Architecture * A @ A 7QX2M0 M2 project Architecture (10 ECTS) A 7QW2M0 M2 project Urbanism (10 ECTS) A 7XW1M0 Combination project Architecture/Urbanism (10 ECTS) A @ DC 7Q4M0 Types and Methods in Architecture A B 7Q3M0 Urban Planet DC	7QX5M0 Seminar Urbanism and Architecture * A @ A
	BPS C30-S30-E15-G45	7LS3M0 Sustainable buildings / Physical aspects ... A 7LY3M0 Building Perf. And Energy Systems Simulation 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	7LS9M0 Heat, Air & Moisture Transfer/CFD 1 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 C.S. Lighting Technology A 7LY7M0 Techniques in Architectural Acoustics D	7LY4M0 Building Services and Fire safety B 7LS6M0 Heat, Air & Moisture Transfer/CFD 2 E
	SED C25-S30-E20-G45	7KP4M0 Advanced Concrete Structures DE 7PP5M0 Resource Efficient Structural Design A 7KP2M0 Design Project Large Span Structures (10 ECTS) B 7KP1M0 Research project (10 ECTS) X 7KT7M0 Finite Element Method, non-linear (2.5 ECTS) B 7PP3M0 Timber structures (2.5 ECTS) B	7KP3M0 Advanced Steel and Aluminium Structures E 7KT1M0 Structural Design, capita selecta B 7KT4M0 Digital Design & Manufacturing (2.5 ECTS) A	7KP6M0 Energy and finite element methods E 7KS2M0 Design project High Rise Building (10 ECTS) A 7KP2M0 Design Project Large Span Structures (10 ECTS) C 7KP1M0 Research project (10 ECTS) X 7KK1M0 Geotechnics, Soil Mechanics, Seismic A 7KT2M0 Structural Design with Glass and other Materials D	7KP7M0 Stability of Structures A
	USRE C25-S30-E20-G45	7ZW3M0 Urban Planning II @ E 7ZU4M0 Housing Systems and Strategies B 7ZZ9M0 Design Science Methodology and Systems Eng. B 7ZM1M0 Project: Research and Development Project (10 ECTS) AC 7ZU1M0 Project: Housing Portfolio: Assets & Risks (10 ECTS) A	7ZU3M0 Managing Place and Property C 7ZW5M0 Smart Urban Environments D 7M900 Fundamentals of BIM E	7ZW7M0 Urban Research Methods C 7ZM8M0 Collaborative Design A 7ZM1M0 Project: Research and Development Project (10 ECTS) B 7ZU2M0 Project: Redevelopment of Problem Areas (10 ECTS) B 7ZU1M0 Project: Big Data for Urban Analysis (10 ECTS) E 7U72 Corporate Real Estate Strategy D 7ZM7M0 Parametric Design CT A	7ZW4M0 Built Environment and Smart Mobility @ C 7ZM5M0 Process Modeling and Information Management D
	CME C30-S35-E15-G40	7ZZ9M0 Design Science Methodology and Systems Eng. B 7ZM3M0 Case Study Process Modeling (2.5 ECTS) D 7ZZ6M0 Legal & Governance Aspects X 7ZM1M0 Project: Research and Development Project (10 ECTS) AC 7ZW3M0 Urban Planning II @ E	1CM900 Project management (2.5 ECTS) C 7ZW5M0 Smart 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) B 7ZW1M0 Project: Big Data for Urban Analysis (10 ECTS) E 7ZW7M0 Urban Research Methods C	7ZM5M0 Process Modeling and Information Management D 7ZW4M0 Built Environment and Smart Mobility @ C 7ZM1M0 Project: Research and Development Project (10 ECTS) B 7ZW1M0 Project: Big Data for Urban Analysis (10 ECTS) E
All programs	7KS1M0 Masterproject Building Technology BT AC 7QQ1M0 Architectural Expression * A B 7QQ3M0 Arts and architecture E 7QW7M0 Theory and practice of the public domain @ E 7QW8M0 The Built-up Heritage over Time @ @ A 7QX8M0 Urban Form @ E 7RC100 Procurement CT E 7XX4M0 The thinking eye D 7XC1M0 Circular Design in the Built Environment CD A 7KS3M0 Practical assignment 'Bouwkundewinkel' * X	7LL1M0 Sports and Building Aero Dynamics A 7QQ1M0 Architectural Expression * A B 7QX7M0 Architectural Analysis A A 7KS3M0 Practical assignment 'Bouwkundewinkel' * X 7KK3M0 Adv. Design & Construct of an Innov. Struct. Obj. E	7KP8M0 Smart Building Methodology & Technology BT C 7LY8M0 Smart Cities B 7QQ1M0 Architectural Expression * A B 7QQ2M0 Constructing Architecture @ D 7QQ3M0 Arts and architecture C 7QX6M0 Architecture and Philosophy @ B 7QX8M0 Urban Form @ @ E 7ZW6M0 History of Housing and Cities D 7XC2M0 Circular Research and Design Project (10 ECTS) A 7KS3M0 Practical assignment 'Bouwkundewinkel' * X	7KK3M0 Design & Construct of an innovative structural object E 7KP9M0 Building Technology with Extreme Complexity BT E 7QQ1M0 Architectural Expression * A B 7QX7M0 Architectural Analysis A A 7XX4M0 The thinking eye D 7KS3M0 Practical assignment 'Bouwkundewinkel' * X 7RC50 Master project Construction Plan CT X 7KK3M0 Adv. Design & Construct of an Innov. Struct. Obj. E	
	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, AUDE A+UD: 7X60M0 (60 ECTS), BPS: 7S45M0, SED: 7K45M0, USRE: 7Z45M0)		You can start a graduation project every quarter	45 ECTS	
	7CC40 Graduation Project CME		You can start a graduation project every quarter	40 ECTS	