Course overview ABP and CME 2023-2024

For the ABP-tracks SUMT and SMDSA see seperate overviews

Legend:
- Core course (orange)
- Specialization elective (blue)
- Elective (purple)
- Graduation project (red)

Diagram key: Module → 7X1X0 — Course name — Ⓐ Ⓤ (Course for registration in architectects / urbanists register) — A (Timeslot) — *BT* Certificates: BT (Building Technology) / CT (Construction Technology) / CD (Circular Design in the Built Environment), ILD (Intelligent Lighting Design)

Version: 31-08-2023

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

ABP — AUDE (C15-S30-E30-G45)

Quarter 1
Code	Course	Reg.	Slot
7QX5M0	Seminar urbanism and architecture *	Ⓐ Ⓤ	A
7QW5M0	Research in urbanism and architecture II	Ⓐ Ⓤ	B
7QX1M0	Masterproject 1 architecture (10 ECTS)	Ⓐ	DC
7QW1M0	Masterproject 1 urbanism (10 ECTS)	Ⓤ	DC
7XW1M0	Combined masterstudio Architecture and Urban Design (10 ECTS)	Ⓐ Ⓤ	DC

Quarter 2
Code	Course	Reg.	Slot
7QX5M0	Seminar urbanism and architecture *	Ⓐ Ⓤ	A
7QW6M0	Architectural and urban theory	Ⓐ Ⓤ	B
7XX9M0	Urban trends and strategies	Ⓤ	A
7QX3M0	Architectural engineering	Ⓐ	D

Quarter 3
Code	Course	Reg.	Slot
7QX5M0	Seminar urbanism and architecture *	Ⓐ Ⓤ	A
7QX2M0	Masterproject 2 architecture (10 ECTS)		
7QW2M0	Masterproject 2 urbanism (10 ECTS)		
7XW1M0	Combined masterstudio Architecture and Urban Design (10 ECTS)		

Quarter 4
Code	Course	Reg.	Slot
7QX5M0	Seminar urbanism and architecture *	Ⓐ Ⓤ	A
7QX2M0	Masterproject 2 architecture	Ⓐ	DC
7QW2M0	Masterproject 2 urbanism	Ⓤ	DC
7XW1M0	Combined masterstudio Architecture and Urban Design	Ⓐ Ⓤ	DC
7QQ4M0	Types and methods in architecture	Ⓐ	B
7QW3M0	Urban planet	Ⓤ	E

ABP — BPS (C30-S30-E15-G45)

Quarter 1
Code	Course	Slot
7LS3M0	Sustainable buildings/physical aspects of building materials	A
7LY3M0	Building performance 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	Data science for Intelligent buildings	B

Quarter 2
Code	Course	Slot
7S880	Lighting technology	*ILD* C
7LY6M0	Materials panorama	A

Quarter 3
Code	Course	Slot
7LS9M0	Heat, air and moisture transfer / CFD1	BC
7LS8M0	Architectural acoustics	D
7LS0M0	BPS masterproject design (10 ECTS)	
7LS1M0	BPS masterproject A, research (10 ECTS)	
7LS2M0	BPS masterproject B, research (10 ECTS)	
7LL7M0	Capita selecta lighting technology	

Quarter 4
Code	Course	Slot
7LY4M0	Building services and fire safety	B
7LS6M0	Heat, air and moisture transfer / CFD2	E
	BPS masterprojects	X
7LY7M0	Techniques in architectural acoustics	D

ABP — SED (C25-S30-E20-G45)

Quarter 1
Code	Course	Slot
7KP4M0	Advanced concrete structures	DE
7PP5M0	Resource efficient SED	A
7KP2M0	Design project large span structures (10 ECTS)	
7KP1M0	Research project (10 ECTS)	
7KT8M0	Finite element method 2 - nonlinear and multi-scale simulations	B
7PP4M0	Advanced timber structures	B

Quarter 2
Code	Course	Slot
7KP3M0	Advanced steel and aluminum structures	E
7KT4M0	Digital design & manufacturing (2.5 ECTS)	A / C
7KK1M0	Geotechnics, soil mechanics and structural dynamics	A

Quarter 3
Code	Course	Slot
7KP7M0	Stability of structures	A
7KS2M0	Design project high rise building (10 ECTS)	C
7KP2M0	Design project large span structures (10 ECTS)	C
7KP1M0	Research project (10 ECTS)	X
7KT1M0	Structural design, capita selecta	B
7KT9M0	Structural design with glass (2,5 EC)	D

Quarter 4
Code	Course	Slot
7KP6M0	Finite element method 1 - energy methods and linear simulations	E

ABP — USRE (C25-S30-E20-G45)

Quarter 1
Code	Course	Reg.	Slot
7ZW3M0	Urban planning II	Ⓤ	E
7ZU4M0	Econometric analysis of housing markets		B
7ZZ9M0	Design science methodology and systems engineering		B
7ZM1M0	Research and development project (10 ECTS)		AC
7ZU1M0	Housing portfolio management (10 ECTS)		A

Quarter 2
Code	Course	Slot
7ZU3M0	Managing place and property	C
7ZW5M0	Smart healthy urban environments	D
7M900	Fundamentals of BIM	E

Quarter 3
Code	Course	Reg.	Slot
7ZW7M0	Urban research methods		C
7ZM8M0	Collaborative design		A
7ZM1M0	Research and development project (10 ECTS)		
7ZU2M0	Redevelopment of problem areas (10 ECTS)		
7ZW1M0	Big data for urban & transportation analysis/project (10 ECTS)		
7U772	Corporate real estate and workplace strategy		D
7ZM7M0	Parametric design	*CT*	A

Quarter 4
Code	Course	Reg.	Slot
7ZW4M0	Built environment and smart mobility	Ⓤ	C
7ZM5M0	Process modeling and information management		D
			B
			B
			E

CME (C30-S35-E15-G40)

Quarter 1
Code	Course	Reg.	Slot
7ZZ9M0	Design science methodology and systems engineering		B
7ZM3M0	Case study process modeling of construction projects (2.5 ECTS)		D
7ZZ6M0	Legal & governance aspects		X
7ZM1M0	Research and development project (10 ECTS)		AC
7ZW3M0	Urban planning II	Ⓤ	E
7RC100	Inner-city modular high-rise		E
7XC1M0	Circularity in the Built Environment		A

Quarter 2
Code	Course	Slot
1CM900	Project management (2.5 ECTS)	C
7M900	Fundamentals of BIM	E
1ZM20	Technology entrepreneurship	A
1ZM120	Entrepreneurial marketing	B

Quarter 3
Code	Course	Reg.	Slot
7ZM8M0	Collaborative design		A
1ZM65	System dynamics		D
7ZM1M0	Research and development project (10 ECTS)		
7ZW1M0	Big data for urban & transportation analysis/project (10 ECTS)		
7ZW7M0	Urban research methods		C
7ZM7M0	Parametric design	*CT*	A
7KP8M0	Smart Building Methodology and Technology		C

Quarter 4
Code	Course	Reg.	Slot
7ZM5M0	Process modeling and information management		D
7ZW4M0	Built environment and smart mobility	Ⓤ	C
			B
			E

All programs (Electives)

Quarter 1
Code	Course	Cert./Reg.	Slot
7KS1M0	Masterproject building technology	*BT*	AC
7QQ1M0	Architectural expression ◊*	Ⓐ	B3
7QQ3M0	Arts and architecture ◊		E
7QW7M0	Theory and practice of the public domain	Ⓤ	E
7QX8M0	Urban form ◊	Ⓤ	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

Quarter 2
Code	Course	Cert./Reg.	Slot
7LL1M0	Sports and building aerodynamics		A
7QQ1M0	Architectural expression ◊ *	Ⓐ	B3
7QX7M0	Architectural analysis ◊	Ⓐ	A
7KS3M0	Practical assignment "Bouwkundewinkel" *		X
7QW8M0	The built-up heritage over time	Ⓐ Ⓤ	D
7ZW6M0	History of housing and cities		D

Quarter 3
Code	Course	Cert./Reg.	Slot
7KP8M0	Smart building methodology & technology	*BT*	C
7LY8M0	Smart cities ◊		B
7QQ1M0	Architectural expression ◊ *	Ⓐ	B3
7QQ2M0	Constructing architecture	Ⓐ	D
7QQ3M0	Arts and architecture ◊		E
7QX6M0	Architecture and philosophy	Ⓐ	B
7QX8M0	Urban form ◊	Ⓐ Ⓤ	E
7KS3M0	Practical assignment "Bouwkundewinkel" *		X
7XC2M0	Circularity research a/o design project (10 ECTS)		
7CBL1M0	Challenge based learning-smart cities (10 ECTS)	*CD*	A

Quarter 4
Code	Course	Cert./Reg.	Slot
7KP9M0	Building technology with extreme complexity	*BT*	E
7QQ1M0	Architectural expression ◊ *	Ⓐ	B3
7QX7M0	Architectural analysis	Ⓐ	E
7XX4M0	The thinking eye ◊		D
7KS3M0	Practical assignment "Bouwkundewinkel" *		X
7RC50	Master project construction plan	*CT*	X

Internships / workshops

Code	Course	ECTS
7_AWE0	Internship academic work experience (AUDE: 7QAWE0, BPS: 7SAWE0, SED: 7KAWE0, USRE/CME: 7ZAWE0)	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

Graduation projects

Code	Project	Start	ECTS
7_45M0	Graduation Project (AUDE A: 7X45M0, AUDE UD: 7W45M0, BPS: 7S45M0, SED: 7K45M0, USRE: 7Z45M0)	You can start a graduation project every quarter	45 ECTS
7X60M0	Graduation Project AUDE A+UD	You can start in Q1 and Q3	60 ECTS
7CC40	Graduation Project CME	You can start a graduation project every quarter	40 ECTS

◊ Course with a maximum number of students that can participate. More details via Osiris Course Catalogue.

No rights can be derived from this publication.