

ABP Mastertrack

Smart Mobility Data Science and Analytics 2023-2024

Entry point program TU/e

		Quarter	Timeslot	ECTS
<u>Compulsory courses</u>				
2AMS10	Longitudinal data analysis	1	C	5
7ZW3M0	Urban planning 2	1	E	5
1CM110	Decision making in transport and mobility	2	A	5
2IIG5	Data mining and machine learning - BE	2	C	5
7ZW7M0	Urban research methods	3	C	5
7ZW1M0	Big data for urban & transportation analysis/project	3-4	E	10
<u>Compulsory I&E courses</u>				
1ZM90	Open innovation	4	A	5
1ZM130	Design science methodology for BPC	4	B	5
<u>Specialization electives (choose 5 ects out of 10)</u>				
2DI66	Advanced simulation	3	B	5
7LY8M0	Smart cities	3	B	5
total				60

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Exit point program TU/e

		Quarter	Timeslot	ECTS
<u>Compulsory courses</u>				
Code	Summerschool			3
7ZW5M0	Smart healthy urban environment	2	D	5
7SMI0	Internship SMDSA			2
<u>Compulsory I&E course</u>				
1ZM160	Innovation and entrepreneurship study	1	A	5
<u>I&E electives (choose 5 ects out of 15)</u>				
1ZM16	Management of product development	1	D	5
0EM160	Innovation and intellectual property rights	2	B	5
1ZM120	Entrepreneurial marketing	2	B	5
<u>Specialization electives (choose 15 ects out of 40)</u>				
2DME20	Non-linear optimization	1	C	5
0HM310	Automotive human factors	1	C	5
2AMI10	Foundations of process mining	1	D	5
2IIG5	Data mining and machine learning - BE	2	C	5
1CM110	Decision making in transport and mobility	2	A	5
2AMU10	Foundations of artificial intelligence	2	A	5
0LM190	Philosophy and ethics of AI	2	B	5
1CM240	Artificial intelligence for logistics and its interfaces	3	D	5
7SM30M0	Graduation project SMDSA	2-4		30
total				65