

Study Plan of Doctoral Study Program Smart Cities AY 2023/2024 for PhD Students of the Faculty of Architecture CTU

The Individual Study Plan (ISP) is prepared by the doctoral student in collaboration with their supervisor. The supervisor and chairman of the branch board approves the ISP of the student. The ISP must contain three compulsory subjects, including language, and three compulsory elective subjects, or other optional subjects.

The study block in ISP is divided into a maximum of four semesters for the full-time form of study or a maximum of six semesters for the combined form of study. Students are recommended to finish the study block by the end of the 4th semester.

Course	Code	Semester	Exam, Assessment	Guarantor / Lecturer
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Compulsory courses - 3

Solutions of Smart and Resilience Cities (FD ČVUT)	20SSR	*	exam	prof. Dr. Ing. Miroslav Svítek, dr.h.c., Feng, EUR ING (Horák, Svítek)
Smart Cities in Context of Contemporary Thinking (FA ČVUT)	D05SMC	summer	exam	Mgr. Vladan Klement. Ph.D., Mgr. Jiří Tourek, Ph.D.
Language (the student selects one of the languages offered):				
– English	15JAA	*	exam	PhDr. Klára Lancová, Ph.D.
– French	15JAF	*	exam	Mgr. Irena Veselková
– German	15JAN	*	exam	Mgr. Alexej Kusák
– Russian	15JAR	*	exam	Mgr. Marie Michlová
– Spanish	15JAS	*	exam	PhDr. Mgr. Petra Mračková Vavroušová, Ph.D.

Compulsory elective courses - 3

Smart Mobility (FD ČVUT)	11SM	*	assessment, exam	prof. Ing. Ondřej Příbyl, Ph.D.
Mathematical Methods of Data Analysis (FD ČVUT)	11MMA	*	assessment, exam	doc. Ing. Ivan Nagy, CSc.
Theory of Spatial Development (FA ČVUT)	D05TSD	summer	exam	prof. Ing. arch. Karel Maier, CSc.
Research Methodology (FA ČVUT)	D05RM	winter	exam	prof. Ing. arch. Karel Maier, CSc.
Sustainable Cities and City Logistics (FD ČVUT)	17SCL	*	assessment, exam	doc. Ing. Tomáš Horák, Ph.D.
Integration of Urban Systems (FA ČVUT)	D05IUS	winter	exam	doc. Ing. arch. Akad. arch. Ir. Jiří Klokočka
Modeling for Territory Development (FA ČVUT)	D05MTD	winter	exam	doc. Ing. arch. Jakub Vorel, Ph.D.
Data Mining and Big Data (FA ČVUT)	14DMB	*	exam	doc. Dr. Ing. Tomáš Brandejský
Technology and Security of Sensor Networks (FD ČVUT)	23TSS	*	exam	doc. Ing. Václav Jirovský, CSc.
Traffic Microsimulation (FD ČVUT)	14TMS	*	assessment	Ing. Jan Krčál, Ph.D.
Urban Construction (FA ČVUT)	D05UC	summer	exam	prof. Ing. arch. Jan Jehlík

Elective / Optional courses

Scientific English (FA ČVUT)	D05SE	winter	exam	prof. dr. ir. Henri Achten
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* the course is not fixed for a particular semester - schedule depends on agreement with the teacher from Faculty of Transportation Sciences

The following points of study and exams are mandatory for all fields, for all of which it is necessary to register by their respective deadlines

Student scientific conference FA ČVUT		2nd semester		doc. Ing. arch. Jana Zdráhalová, Ph.D.
State of the Art		2nd semester		supervisor
Dissertation study		winter / summer	exam	supervisor
State doctoral examination		winter / summer	exam	
Dissertation defense		winter / summer	exam	