

## Research Themes and Summaries of Dissertations for Academic Year 2023/24

### Study Programme Smart Cities

Study Programme	Form	Department	Supervisor	Research Theme	Summary
Smart Cities	Full-time or combined	Department of Urban Design (15119) / Ústav urbanismu (15119)	Ing. arch. Jana Zdráhalová, Ph.D.Ú	<b>Wayfinding in public space</b>	Orientation of people in the space of complex buildings or the city's public space. How people choose a path (wayfinding), how the road network, architectural landmarks, sound, etc., influence our movement in the city—the topic of collisions between pedestrians and car traffic and strategies to minimize them.
Smart Cities	Full-time or combined	Department of Spatial Planning (15121) / Ústav prostorového plánování (15121)	doc. Ing. arch. Jakub Vorel, Ph.D.	<b>Sustainable urban mobility and accessibility</b>	Subject of scientific research: exploring the relationship between transport mobility and land-use in urban regions; exploring the effectiveness of administrative-regulatory and economic instruments for achieving sustainable mobility and accessibility in urban regions. Methodological approaches: statistical analysis, machine learning, simulation modeling. Publication of results and dissertation in English, the applicant should contact the supervisor at least one week before the deadline for submission of applications and agree on details.
Smart Cities	Full-time or combined	Department of Spatial Planning (15121) / Ústav prostorového plánování (15121)	Ing. arch. Veronika Šindlerová, Ph.D.	<b>Sustainable development of suburbs</b>	Subject of scientific research: research of current trends and tendencies of suburbanization in the Czech Republic, both in the metropolitan area of Prague, in the hinterland of large cities, as well as in peripheral regions in the Czech Republic. Focus on identifying and systematizing the characteristic problems and deficits of sustainable development of suburban localities, including tools and procedures for their elimination. Investigation and systematization of possible scenarios of future suburban development in the Czech Republic, including identification of key potentials for their sustainable development. Remarks: the applicant should contact the supervisor at least one week before the deadline for submission of applications and agree on details. Remarks: publication of results and dissertation in English, the applicant must contact the supervisor at least one week before the deadline for submission of the application and agree on details.