



K617 Department of Logistics and Management of Transport

MASTER'S THESIS ASSIGNMENT

(PROJECT, WORK OF ART)

Student's name and surname (including degrees):

Abdy E. Cervantes, B.S.Ce

Study programme (field/specialization) of the student:

master's degree – SC – Smart Cities

Theme title (in Czech): **Prostorově-časová analýza dopravy na vyžádání**

Theme title (in English): **Spatial-Temporal Analysis of Demand Responsive Transportation**

Guidelines for elaboration

During the elaboration of the master's thesis follow the outline below:

- Analyze current service coverage of fixed route public transport in the El Paso area and define an underserved suburban area.
- Review existing case studies of other suburban cities that have implemented on-demand microtransit.
- Model on-demand service coverage for underserved area in El Paso.
- Analyze service coverage with on-demand service and compare with existing fixed route service coverage.



Graphical work range: -----

Accompanying report length: at least 55 pages

Bibliography: N. Carolina. Transforming Public Transit with a Rural On-Demand Microtransit Project. 2023. FTA Report No. 0243
S. Kang and S. Hamidi. On-Demand Microtransit for Better Transit Station and Job Accessibility. 2019. <https://rosap.ntl.bts.gov/view/dot/55542>

Master's thesis supervisor: **doc. Ing. Tomáš Horák, Ph.D.**
Dr. Ruey Long Cheu
Dr. Adeeba A. Raheem

Date of master's thesis assignment: **June 30, 2023**
(the date of the first assignment of this work, which must be no later than 7 months (Master) or 5 months (Bachelor) before the date of the first expected submission of this work resulting from the standard period of study)

Date of master's thesis submission: **May 15, 2025**
a) date of first anticipated submission of the thesis based on the standard study duration and the recommended study time schedule
b) in case of postponing the submission of the thesis, next submission date results from the recommended time schedule

doc. Ing. Tomáš Horák, Ph.D.
head of the Department
of Smart Cities and Regions



prof. Ing. Ondřej Příbyl, Ph.D.
dean of the faculty

I confirm assumption of master's thesis assignment.

Abdy E. Cervantes, B.S.Ce
Student's name and signature

Prague December 12, 2024