Tárgytematika / Course Description
Traffic engineering

EKNB_KETA012

Tárgyfelelős neve /
Teacher's name: dr. Borsos Attila

Félév / Semester: 2024/25/2

Beszámolási forma /
Assesment: Vizsga

Tárgy heti óraszáma /
Teaching hours(week): 2/1/0

Tárgy féléves óraszáma /
Teaching hours(sem.): 0/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

The goal of the course is to make students familiar with the most important concepts and tools of road traffic engineering.

TANTÁRGY TARTALMA / DESCRIPTION

Topics that are covered in class:

- Traffic flow, speed and density
- Traffic stream models (speed-density, flow-density, speed-flow)
- Highway capacity – level of service
- Multilane highways, two-lane highways, design traffic volumes
- Traffic control at signalized intersections - signal control characteristics
- Traffic control at signalized intersections – traffic flow fundamentals, traffic signal phasing and timing plan
- Traffic control at signalized intersections - traffic signal phasing and timing plan
- Traffic calming, Parking
- Roundabouts, capacity analysis
- Bicycle, pedestrian infrastructure

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'S METHOD

Written exam: typical exam questions/exercises are provided in lecture slides

Evaluation:

55-64% sufficient (2)

65-74% satisfactory (3)

75-84% good (4)

85%- excellent (5)

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

Recommended literature: indicated in the course schedule and in the last slide of every lecture

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AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL