# Tantárgyi tematika és teljesítési követelmények 2020/2011. I. félév

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| --- | --- |
| Cím | Urban Transport |
| **Tárgykód** | **SZB027AN** |
| **Heti óraszám: ea/gy/lab** | **2 pres** |
| **Kreditpont** | **2** |
| **Szak(ok)/ típus** | **Civil Engineering (BSc),** |
| **Tagozat** | **normal** |
| **Követelmény** | **mid-term mark** |
| **Meghirdetés féléve** | **autumn** |
| **Előzetes követelmény(ek)** | **-** |
| **Oktató tanszék(ek)** | **Civil Engineering** |
| **Tárgyfelelős és oktatók** | **dr. Gulyás András** |
|  |  |

## Tantárgy célkitűzése

**Learning Outcomes:** basic knowledge of urban transport and traffic engineering.

## Tartalma

**General Course Description and Main Content:**

Role and development of urban transport in the practice of urbanism and town management. Main goal of advanced transport infrastructure is to provide sustainable mobility in liveable cities. Main parts of the curricula: urban transport network and its planning, design and operation of sustainable urban transport modes, urban related elements of road transport (within that input data of transport planning and relations, network hierarchy, traffic engineering design and solutions, traffic engineering, traffic calming, design of intersections, traffic safety, intelligent transport systems), role of railway, water and air transport in cities. Theory is supplemented by presenting recently implemented urban transport development as well as numerical examples to help understanding.

*Topics:*

Presentation:

|  |  |
| --- | --- |
| **date** | **topic** |
| **9 September** | **Basic ideas** |
| **16 September** | **Motorisation, Traffic planning 1** |
| **23 September** | **Traffic planning 2, Networks** |
| **30 September** | **Public transport** |
| **7 October** | **Pedestrians, cycling** |
| **14 October** | **Bypass roads, urban sections** |
| **21 October** | **Traffic calming** |
| **28 October** | ***Autumn break*** |
| **4 November** | **Intersections, Traffic signals** |
| **11 November** | **Roundabouts, Intelligent systems** |
| **18 November** | **Traffic safety, Safety audit** |
| **25 November** | **Parking, Traffic engineering** |
| **2 December** | **Rail, water, air traffic in cities** |
| **9 December** | ***Mid-term exam test*** |
| **16 December** | ***Mid-term exam test re-take*** |

## Számonkérési és értékelési rendszere

**Attendance:** Attending is required as described is the faculty rules. 1 written mid-term test.

**Enhancement and re-test:** The test can be oncerewritten for enhancement or in case of absence usually on the last week of the semester. Should this rewritten test be failed there is still another possibility in the exam period. The evaluation of the last written test is taken into account that means it is possible to get even a worse mark after an attempt to enhance.

**Evaluation and Grading:**

A minimum of 41% is required to pass the mid-term test. Grading scale:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Numeric Grade: | 5 | 4 | 3 | 2 | 1 |
| Evaluation in points: | 86%-100% | 71%-85% | 56%-70% | 41%-55% | 0-40% |

## Kötelező és ajánlott irodalom

**Required Reading:**

Sustainable Urban Mobility Plan (SUMP) Guidelines. On-line version <http://www.eltis.org/guidelines/sump-guidelines>

Transport Planning and Traffic Engineering ed. by C.A. O’Flaherty <http://site.iugaza.edu.ps/emasry/files/2010/09/Transport-Planning-and-traffic-engineering.pdf>

Subject materials on Neptun Meet Street

## Ütemezés

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|  |  | Szorgalmi időszak, oktatási hetek | Vizsgaidőszak |
| 2020/2021. I. félév | **1.** | **2.** | **3.** | **4.** | **5.** | **6.** | **7.** | **8.** | **9.** | **10.** | **11.** | **12.** | **13.** | **14.** | **15.** | **1.** | **2.** | **3.** | **4.** | **5.** |
| **Előadás tematika sorszáma** | 1 | 2 | 3 | 4 | 5 | 6 | 7 |  | 8 | 9 | 10 | 11 | 12 |  |  |  |  |  |  |  |
| **Gyakorlat/Labor sorszáma** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Zárhelyi dolgozat** |  |  |  |  |  |  |  |  |  |  |  |  |  | mt | ret |  |  |  |  |  |
| **Otthoni munka** | **kiadása** |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |   |   |   |   |   |
| **beadási határidők** |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |   |   |   |
| **Jegyző-könyvek** | **beadási határidők** |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |   |   |   |
| **Egyebek** | **pl. beszámolók,**  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  | Aláírás, félévközi jegy már nem pótolható |
|  | **stb.**  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Aláírás / Félévközi jegy megadása** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | s/m |   |   |
| **Vizsgák tervezett időpontjai** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

7. szeptember 2020.

*dr. Gulyás András*

lecturer