# COURSE SYLLABUS SEMESTER 2021/2022 1.

|  |  |
| --- | --- |
| Name of Course | Urban Transport |
| **Course Code** | **SZB027AN** |
| **Allotment of Hours per Week** | **2 pres** |
| **Number of Credits** | **2** |
| **Program** | **Civil Engineering (BSc),** |
| **Evaluation** | **mid-term mark** |
| **Semester** | **autumn** |
| **Prerequisites** | **-** |
| **Department** | **Civil Engineering** |
| **Instructor** | **Dr. Gulyás András** |
|  |  |

##  INTRODUCTION, GENERAL COURSE DESCRIPTION

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.

## LEARNING OBJECTIVES

Basic knowledge of urban transport and traffic engineering

**Methodology:**

Presentations

**Schedule:**

1. 08 September Basic ideas

2. 15 September Motorisation, Traffic planning 1

3. 22 September Traffic planning 2, Networks

4. 29 September Public transport

5. 06 October Pedestrians, cycling

6. 13 October Bypass roads, urban sections

7. 20 October Traffic calming

 27 October Autumn Break

8. 03 November Intersections, Traffic signals

9. 10 November Roundabouts, Intelligent systems

10. 17 November Traffic safety, Safety audit

11. 24 November Parking, Traffic engineering

12. 01 December Rail, water, air traffic in cities

 08 December Mid-term exam test

 15 December Mid-term exam test re-take

## ATTENDANCE AND GRADING

**Attendance:**

Attending is required all classes, and will impact the grade (max. 10%). Unexcused absences will adversely affect the grade, and in case of absence from more than 30% of the total number of lessons will be grounds for failing the class. To be in class at the beginning time and stay until the scheduled end of the lesson is required, tardiness of more than 20 minutes will be counted as an absence. In the case of an illness or family emergency, the student must present a valid excuse, such as a doctor's note.

**Grading:**

**Offered exam grade:**

Evaluation in percent Numeric grade

71%-100% 5

61%-70% 4

51%-60% 3

41%-50% 2

0-40% 1

## READINGS AND REFERENCE MATERIALS

Sustainable Urban Mobility Plan (SUMP) Guidelines. On-line version <https://www.eltis.org/mobility-plans/sump-online-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>

**SCHEDULE**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Szorgalmi időszak, oktatási hetek | Vizsgaidőszak |
| 2021/2022. 1. 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** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Zárthelyi dolgozat** |  |  |  |  |  |  |  |  |  |  |  |  |  | mt | ret |  |  |  |  |  |
| **Otthoni munka** | **kiadása** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |
| **beadási határidők** |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |
| **Jegyző-könyvek** | **beadási határidők** |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |
| **Egyebek** | **pl. beszámolók,**  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| **Aláírás / Félévközi jegy megadása** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | siggra |  |  |
| **Vizsgák tervezett időpontjai** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |