

## COURSE SYLLABUS AND COURSE REQUIREMENTS

## ACADEMIC YEAR 2022/2023 SEMESTER 1

<i>Course title</i>	<i>Urban Transport</i>
<i>Course Code</i>	<i>SZB027AN</i>
<i>Hours/Week: le/pr/lab</i>	<i>2/0/0</i>
<i>Credits</i>	<i>2</i>
<i>Degree Programme</i>	<i>Civil Engineering (BSc)</i>
<i>Study Mode (training schedule)</i>	<i>full time</i>
<i>Requirements</i>	<i>mid-term mark</i>
<i>Teaching Period</i>	<i>autumn</i>
<i>Prerequisites</i>	<i>-</i>
<i>Department(s)</i>	<i>Civil Engineering</i>
<i>Course Director</i>	
<i>Teaching Staff</i>	<i>Dr. Gulyás András</i>
<i>Hours/Week: le/pr/lab</i>	<i>2/0/0</i>

## COURSE DESCRIPTION

*A short description of the course (max. 10 sentences).*

*Neptun: Instruction/Subjects/Subject Details/Basic data/Subject 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.

## SYLLABUS

*Neptun: Instruction/Subjects/Subject Details/Syllabus*

**1. GOALS AND OBJECTIVES**

*Goals, student learning outcome.*

*Neptun: Instruction/Subjects/Subject Details/Syllabus/Goal of Instruction*

Basic knowledge of urban transport and traffic engineering

**2. COURSE CONTENT**

*Neptun: Instruction/Subjects/Subject Details/Syllabus/Subject content*

## TOPICS

LECTURE	TOPICS
	1. <i>Basic ideas</i>
	2. <i>Motorisation, Traffic planning 1</i>
	3. <i>Traffic planning 2, Networks</i>
	4. <i>Public transport</i>
	5. <i>Pedestrians, cycling</i>
	6. <i>Bypass roads, urban sections</i>
	7. <i>Traffic calming, Sustainable Urban Mobility Plans</i>
	8. <i>Intersections, Traffic signals</i>
	9. <i>Roundabouts, Intelligent systems</i>
	10. <i>Traffic safety, Safety audit</i>

11. Parking, Traffic engineering
12. Rail, water, air traffic in cities
13. Mid-term exam test
14. Mid-term exam test re-take

## DETAILED SYLLABUS AND COURSE SCHEDULE

ACADEMIC HOLIDAYS INCLUDED

### LECTURE

week	Topic	Compulsory reading; page number (from ... to ...)	Required tasks (assignments, tests, etc.)	Completion date, due date
1.	Basic ideas	Presentation UT1	...	...
2.	Motorisation, Traffic planning 1	Presentation UT2 slides 1-48		
3.	Traffic planning 2, Networks	Presentations UT2 slides 49-71, UT3		
4.	Public transport	Presentation UT4		
5.	Pedestrians, cycling	Presentation UT5		
6.	Bypass roads, urban sections	Presentation UT6		
7.	Traffic calming, Sustainable Urban Mobility Plans	Presentations UT7, UT8		
8.	Intersections, Traffic signals	Presentations UT9, UT10		
9.	Autumn Break			
10.	Roundabouts, Intelligent systems	Presentations UT11, UT12		
11.	Traffic safety, Safety audit	Presentation UT13		
12.	Parking, Traffic engineering	Presentations UT14, UT15		
13.	Rail, water, air traffic in cities	Presentation UT16		
14.	Mid-term test	All presentations	Mid-term test	7 December
15.	Mid-term test re-take	All presentations	Mid-term test	14 December

### 3. ASSESSMENT AND EVALUATION

(Neptun: Instruction/Subjects/Subject Details/Syllabus/Examination and Evaluation System)

#### ATTENDANCE

In accordance with the Code of Studies and Examinations of the University of Pécs, Article 45 (2) and Annex 9. (Article 3) a student may be refused a grade or qualification in the given full-time course if the number of class absences exceeds 30% of the contact hours stipulated in the course description.

**Method for monitoring attendance** (e.g.: attendance sheet / online test/ register, etc.)

Attendance sheet

#### ASSESSMENT

Cells of the appropriate type of requirement is to be filled out (course-units resulting in mid-term grade or examination). Cells of the other type can be deleted.

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**Course resulting in mid-term grade (PTE TVSz 40§(3))**

**Mid-term assessments, performance evaluation and their ratio in the final grade** (The samples in the table to be deleted.)

Type	Assessment	Ratio in the final grade
Mid-term test	max 16 points	100 %

**Opportunity and procedure for re-takes** (PTE TVSz 47§(4))

*The specific regulations for improving grades and resitting tests must be read and applied according to the general Code of Studies and Examinations. E.g.: all tests and assessment tasks can be repeated/improved at least once every semester, and the tests and home assignments can be repeated/improved at least once in the first two weeks of the examination period.*

Mid-term test re-take on week 15  
Unsuccessful mid-term test re-take in the exam period

**Grade calculation as a percentage**

*based on the aggregate performance according to the following table*

Course grade	Performance in %
excellent (5)	85 % ...
good (4)	70 % ... 85 %
satisfactory (3)	55 % ... 70 %
pass (2)	40 % ... 55 %
fail (1)	below 40 %

The lower limit given at each grade belongs to that grade.

**4. SPECIFIED LITERATURE**

*In order of relevance. (In Neptun ES: Instruction/Subject/Subject details/Syllabus/Literature)*

**COMPULSORY READING AND AVAILABILITY**

[1.] Presentations (UT1 – UT16) at Neptun Meet Street, Teams and the Witch server

**RECOMMENDED LITERATURE AND AVAILABILITY**

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

[3.] 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>