

COURSE SYLLABUS
SEMESTER SPRING 2019/2020

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|------------------------------------|--|
| Name of Course | Road and Railway Design: Measurement Practice |
| Course Code | MSB234ANEP, PMTKGNB259CA |
| Allotment of Hours per Week | 1 practice (2 practice per even weeks) |
| Number of Credits | 1 |
| Program | Civil Engineer BSc |
| School | full-time |
| Evaluation | mid-term grade |
| Semester | Spring 6th |
| Prerequisites | - |
| Department | Civil Engineering |
| Instructors | Weinreich Zoltán, <u>Eller Balázs</u> |

INTRODUCTION, GENERAL COUSE DESCRIPTION

Obtaining basic knowledge of survey and measurement tasks of transport facilities (road, railway)

LEARNING OBJECTIVES

Short description:

Status assessment of transport facilities (roads, railways), basic planning maps, preparation of registration plans, diagnostic and maintenance-operation measurements, and evaluation, processing and documentation of these measurement data: protocol, site plan, profile, cross sections, etc.

Due to the very wide and complex nature of the subject, the task of the Pécs-felső Railway Station in 2020 is to carry out the assessment of the state of the railway station and prepare a registration plan. The safe traffic-free location is provided by MÁV (Hungarian State Railways).

Methodology:

Practice (weekly):

1. Description of the location of the measurement practice, accessibility, occupational safety education, description of measurement tasks and performance requirements
2. Description of measurement methods
3. Description of processing and documentation

4. On-site works of measurement practice
5. On-site works of measurement practice / Data processing, documentation consultation (optional)
6. Data processing, documentation consultation (optional)
7. Data processing, documentation consultation (optional)

ATTENDANCE AND GRADING

Attendance:

Participation in the on-site measurement is mandatory and cannot be replaced later.

Signature / Semester Rating Condition:

Participation in and documentation of on-site measurement.

Exam: none

Composition of final grade:

The course is successful if the on-site measurement has been completed and the data processing is completed with the standard content. The quality of the on-site measurement is assessed on the basis of the measurement protocol.

Requirement: Measurement protocol, general site plan M = 1:1000, general profile M = 1: 1000/1:100. The task presented for the 15th week can be improved during the exam period. The task is entered in PDF format.

READINGS AND REFERENCE MATERIALS

- [1.] Weinreich Zoltán – Road and Railway Measurement Practice (guide) PTE MIK 2017 <http://wz.atw.hu>

SCHEDULE

| | | TERM OF STUDY, WEEKS OF EDUCATION | | | | | | | | | | | | | | | EXAM PERIOD | | | | |
|-----------------------------------|-----------------------------|-----------------------------------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|------|------|-------------|----|----|----|---|
| SEMESTER SPRING 2019/2020 | | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. | 13. | 14. | 15. | 1. | 2. | 3. | 4. | 5. |
| Lecture topics Nr. | | | | | | | | | | | | | | | | | | | | | |
| Practice/Lab Nr. | | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | | | | | |
| Closed thesis | | | | | | | | | | | | | | | | | | | | | |
| Home work | outgoing | | | | | | | | | | | | | | | | | | | | |
| | submission deadlines | | | | | | | | | | | | | | | | | | | | |
| Records | submission deadlines | | | | | | | | | | | | | rec | | | | | | | |
| Others | e.g. reports | | | | | | | | | | | | | | | draw | | | | | Signature, mid-term grade cannot be replaced |
| | etc. | | | | | | | | | | | | | | | | | | | | |
| Signature / Mid-term grade | | | | | | | | | | | | | | | s/gr | | | | | | |
| Scheduled dates for exams | | | | | | | | | | | | | | | | | | | | | |

February 1, 2020

Eller Balázs, Weinreich Zoltán

Instructors