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|---|--|-------------------------------------|-----------------|-----------------------|-----|
| 1. Subject name   | Passenger Transport Systems (PhD)                |                                     |                 |                       |     |
| 2. Subject name in Hungarian  | Személyközlekedési rendszerek (PhD)              |                                     |                 |                       |     |
| 3. Code   | BMEKOKUD021                                      | 4. Evaluation type                  | exam grade      | 5. Credits            | 3   |
| 6. Weekly contact hours   | 2 (0) Lecture                                    | 2 (0) Practice                      | 0 (0) Lab       |                       |     |
| 7. Curriculum   | PhD Programme                                    | 8. Role                             | Specific course |                       |     |
| 9. Working hours for fulfilling the requirements of the subject   |  |                                     |                 |                       | 150 |
| Contact hours   | 56   | Preparation for seminars            | 15              | Homework              | 34  |
| Reading written materials   | 20   | Midterm preparation                 | 15              | Exam preparation      | 10  |
| 10. Department  | Department of Transport Technology and Economics |                                     |                 |                       |     |
| 11. Responsible lecturer  | Dr. Csiszár Csaba                                |                                     |                 |                       |     |
| 12. Lecturers   | Dr. Csiszár Csaba, Csonka Bálint, Földes Dávid   |                                     |                 |                       |     |
| 13. Prerequisites   |  |                                     |                 |                       |     |
| 14. Description of lectures   |  |                                     |                 |                       |     |
| General characterization of passenger transportation system. Classification of transportation modes – features, travel chains. Quality of passenger transportation services. Planning of parking, pedestrian and bicycle traffic. Car-sharing systems. Ride-sharing systems. Chauffeur services. Taxi service, ride-sourcing. Planning of public transport services. Operation of electric buses in public transportation.  |  |                                     |                 |                       |     |
| 15. Description of practices  |  |                                     |                 |                       |     |
| Learn and practice the measurement, analysis and planning methods. Case studies. Independent literature research supported by consultations. Student presentations. The students elaborate four (individually and/or in teamwork) assignments. The task should be presented.  |  |                                     |                 |                       |     |
| 16. Description of laboratory practices   |  |                                     |                 |                       |     |
| 17. Learning outcomes   |  |                                     |                 |                       |     |
| A. Knowledge <ul style="list-style-type: none"><li>• The students know structure and operation of passenger transportation systems.</li></ul> B. Skills <ul style="list-style-type: none"><li>• They are able to analyse and design passenger transportation systems and operational processes.</li></ul> C. Attitudes <ul style="list-style-type: none"><li>• The students strive for precise and errorless task accomplishment.</li></ul> D. Autonomy and Responsibility <ul style="list-style-type: none"><li>• They apply the knowledge with responsibility.</li><li>• They are able to work independently or in a team according to the situation (self-dependence).</li></ul> |  |                                     |                 |                       |     |
| 18. Requirements, way to determine a grade (obtain a signature)   |  |                                     |                 |                       |     |
| The students write 2 midterms (with theoretical and practical parts). The mid-semester signature is obtained if both midterms are passed (at least half of the maximal scores) and all four student assignments are submitted and accepted (at least half of the maximal scores). The semester is finished by oral exam.  |  |                                     |                 |                       |     |
| 19. Opportunity for repeat/retake and delayed completion  |  |                                     |                 |                       |     |
| The midterms can be retaken according to TVSZ (study code). The student assignments can be submitted after deadline (if extra fee is paid).   |  |                                     |                 |                       |     |
| 20. Learning materials  |  |                                     |                 |                       |     |
| ppt slides, Csaba Csiszár – Bálint Csonka – Dávid Földes: Innovative Passenger Transportation Systems (book) (2019)   |  |                                     |                 |                       |     |
| Effective date  | 27 November 2019                                 | This Subject Datasheet is valid for |                 | 2024/2025 semester II |     |