BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS
Faculty of Transportation Engineering and Vehicle Engineering

Course description

1. Subject name	Transport automation				
2. Code	**KOKAM202**	**3. Evaluation**	**exam**	**4. Credit**	**4**
5. Seminars per week	**2 lecture**	**1 practice**	**0 lab**	**6. Curriculum**	**K0 K1**

7. Needed working hours for achieving the requirements of the subject					**120**
Contact hours	42 hours	**Preparation for seminars**	8 hours	**Homework**	7 hours
Reading written syllabus	42 hours	**Exam preparation**	6 hours	**Final exam preparation**	15 hours

8. Department	**Department of Control for Transportation and Vehicle Systems**
9. Responsible lecturer	Dr. Sághi Balázs
10. Lecturers	Dr. Sághi Balázs

11. Mandatory requirement	-
12. Recommended requirements	-

13. Objective of the subject

Main topics of the subject include: Basic principles of safety. Development of safety-critical systems. System life cycle models. Safety requirement specification, safety criterion. Hazard and risk analysis techniques. Safety integrity of systems. Safety analysis. Failure management of safety critical systems. Introduction to formal techniques, Petri nets.

14. Individual student assignment

Students will solve a given autimatization system risk task.

15. Assessment, requirements for examination

The minimum requirement for the course mark is solving the individual task and passing the written test. The examination will be a verbal, its topics consists of lecture and practical materials.