



<b>1. Subject name</b>	Intelligent transport systems				
<b>2. Code</b>	<b>KOKUM205</b>	<b>3. Evaluation</b>	<b>exam</b>	<b>4. Credit</b>	<b>5</b>
<b>5. Seminars per week</b>	<b>2 lecture</b>	<b>0 practice</b>	<b>2 lab</b>	<b>6. Curriculum</b>	<b>K0 K1</b>
<b>7. Needed working hours for achieving the requirements of the subject</b>					<b>150</b>
<b>Contact hours</b>	56 hours	<b>Preparation for seminars</b>	18 hours	<b>Homework</b>	12 hours
<b>Reading written syllabus</b>	46 hours	<b>Exam preparation</b>	8 hours	<b>Final exam preparation</b>	10 hours
<b>8. Department</b>	<b>Department of Transport Technology and Economics</b>				
<b>9. Responsible lecturer</b>	Dr. Tóth János				
<b>10. Lecturers</b>	Dr. Juhász János				
<b>11. Mandatory requirement</b>	-				
<b>12. Recommended requirements</b>	KOKUM203				
<b>13. Objective of the subject</b>					
<p>The components of intelligent transport systems. The application of ITS on highways and in urban transport. Supporting private and public transport by road and passenger information systems. Traffic management systems. Geographical Information Systems (GIS) in transport. The features and planning principles of GIS databases in transport. The methods of positioning, tracking systems. The vehicle detection and identification systems. Route planning methods. Fleet management.</p>					
<b>14. Individual student assignment</b>					
<p>Individual assignment on the practical use of ITS, which helps developing synthetization abilities of the students. Students must also present a verbal report of the results.</p>					
<b>15. Assessment, requirements for examination</b>					
<p>There will be 2 written test during the semester. The minimum requirements for the course mark is passing both tests, finishing the classroom tasks and presenting the verbal report. At the end of semester a written examination is performed.</p>					