

<b>Study program / course: Mechanical engineering</b>			
<b>Type and level of study: Master academic studies</b>			
<b>Course: Ergonomics of motor vehicles</b>			
<b>Lecturers: Lukic K. Jovanka</b>			
<b>Status of course: Obligatory for modules M<sub>3</sub> and M<sub>8</sub> obligatory, I semester</b>			
<b>Number of ECTS: 6</b>			
<b>Precondition: None</b>			
<b>The objective of course</b> Obtain students to achieve technical understanding of conditions which should be satisfied by vehicles with respect to: driver's working place, passenger, environment, efficiency and driver's comfort			
<b>The outcome of course</b> Upon successful completion of this course, student will: <ul style="list-style-type: none"> <li>- know driver working place key factors,</li> <li>- be able to determine basic parameters of key factors</li> </ul>			
<b>Syllabus</b>			
<b>Theoretical study</b> Introduction in Ergonomics, Research methods, Design and assessment methods, Visual perception, Hearing perception, Knowledge and memory, Displays and control, Driver's Working place, Biomechanics of driver's work, Cumulative Trauma Disorders and injuries, Stress and working load (Physically and mental), Safety and working mistakes of driver, Interactions Driver Vehicle and Environment.			
<b>Practical Studies:</b>			
<i>Laboratory exercise</i> <ul style="list-style-type: none"> <li>◆ Means of determination and assessment methods of estimation of environment influence on ride, acoustics and thermal vehicle comfort.</li> </ul>			
<i>Auditory exercise</i> <ul style="list-style-type: none"> <li>◆ Anthropometrics parameters, Statistics analysis and application in design of drivers working place, influence of anthropometrics parameters on driver efficiency.</li> <li>◆ Driver's useful field of view</li> <li>◆ Driver assistance systems</li> </ul>			
<i>Study research activities</i> Research necessary for group assignment.			
<b>Recommended reading</b> [1] Lukić J, Ergonomija motornih vozila, Lecture notes, 2008.			
The number of hours of active teaching:			Other classes: 1
Theory: 2	Practical classes: 1.6	Other forms of teaching: 0.4	Research study: 0
<b>Methods of teaching</b>			
<b>Evaluation of knowledge</b>			
<b>Pre-final exam obligations</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>
Activities during the classes:	<b>10</b>	Oral exam	<b>30</b>
Practical classes:			
Colloquiums(s) :	<b>30</b>		
Group assignment	<b>30</b>		