

Study Programme: Civil Engineering			
Course Unit Title: Pavement construction			
Course Unit Code: GP402			
Name of Lecturer(s): Matić Bojan			
Type and Level of Studies: bachelor			
Course Status (compulsory/elective): elective			
Semester (winter/ summer): winter			
Language of instruction: english			
Mode of course unit delivery (face-to-face/distance learning): face-to-face			
Number of ECTS Allocated: 6			
Prerequisites: none			
Course Aims: Enabling students for acquiring professional knowledge and application in practice			
Learning Outcomes: Acquired knowledge is used in professional work in the field of roads.			
Syllabus. Introduction – history, basic postulates, types and specificities of road structures. Road mechanics – models of road structures, fundamental physical and mechanical properties and material fatigue, breaking definitions. Input data – traffic load, formation level, road structure layers – materials. Dimensioning based on empirical methods and calculation models based on road mechanics. Application in diverse road types: flexible, semi-stiff and stiff. Influence of climatic and other factors. Evaluation of road conditions, condition indicators. Designing reinforcement for existing roads.			
Required Reading: Relevant literature in English, tbd			
Weekly Contact Hours:2	Lectures: 3	Practical work: 1	
Teaching Methods: Lectures, practice, consultations. Continuous monitoring and evaluation of students.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Attendance			
Computer exercises			
Tests (4x)			

