

Study program: Road Traffic			
Subject name: Services and Garages			
Teacher: mr Miodrag B. Stanković			
Subject status: Optional			
Number of ECTS: 6			
Conditions: None			
Subject objective Mastering the latest theoretical and practical knowledge about technology, organization and management of the process of parking vehicles in cities and populated areas.			
Subject outcome Upon completion of the course, students will be able to: quantify the state of parking in a particular zone or city - define measures for parking management in a particular zone or city and quantify the effects of parking management measures, define conditions for implementing positive effects of parking management measures, define subsystem location parking in the transport system of the city, define the importance of measures in parking on the implementation of the transport policy of the city, analyze the process in the parking subsystem and define and compare the parameters of service quality.			
Subject content			
<i>Theory classes</i>			
Basic terms and definitions, subject and goal. Maintenance engineering and safety of operation of vehicles. Facilities for maintenance of vehicles (types, characteristics and purpose). Elements of the technological calculation of facilities for maintenance of vehicles (expected number of vehicles, number of jobs, volume of work in maintenance facilities, required area of the facility for maintenance, rhythm of work and average maintenance time). Necessary equipment in facilities for maintenance of vehicles. Organizational and technical characteristics of facilities for maintenance of vehicles. Calculation of the number of jobs, required areas and selection of maintenance equipment. Technical-technological documentation for the construction (or reconstruction) of the facility for maintenance of vehicles (general design, preliminary design, main design, construction design and design of the constructed facility). Autobase. Services for complete maintenance of vehicles. Parking of vehicles (parking characteristics, determination of parking needs, way of solving parking needs, street parking). Parking garage (types, location, capacity, equipment). Bus stops. Truck stations - transshipment stations. Storage of vehicles for a longer period (protection of road vehicles from degrading influences during longer storage - in the conditions of the so-called "passive exploitation").			
<i>Practice classes</i>			
Genesis of parking problems. Urban aspect of parking. Parking requirements. Parking characteristics. Parking management strategy. Content and manner of forming the Parking Information Basis. Control and management of parking in cities and populated areas. Determining the state of parking, types of research and elements of the research procedure. Measures to manage parking requirements. Measures to manage the functioning of available parking spaces. Economic aspect of parking. Organization of parking at a given location. Research of parking characteristics - Accumulation (determination of attractiveness of the observed space). Determining the condition of parking at a given location with a proposal for improvement measures. Calculation of realized income from parking fees. Garage parking and division. Parking garage equipment. The concept of a bus station, the basic technological units of a bus station. Principles of bus station layout.			
Literature:			
1. Н. Путник, „Аутобазе и аутостанице“, Саобраћајни факултет, Београд, 2001.			
2. Н. Милосављевић, „Паркирање“, Саобраћајни факултет, Београд, 2010.			
3. Н. Милосављевић, „Елементи за технолошко пројектовање објеката у друмском саобраћају и транспорту“, Саобраћајни факултет, Београд, 2012.			
4. С. Костић, Б. Давидовић, „Паркирање и јавне гараже“, Факултет техничких наука, Нови Сад, 2012.			
Number of active classes	Theory classes: 45	Practice classes: 30	
Teaching methods			
Oral presentation method, interview method, seminar paper method and demonstration method.			
Knowledge assessment (maximum number of points 100)			
Pre-exam obligations	points	Final exam	points
activity during the lectures	5	written exam	30
practice classes	5	oral exam	-
colloquium/s	50		
seminar/s	10		

