Study program: Communal Engineering

Course: Design of Urban Roads

Professor: PhD Dragan Ž. Perić

Status of course: compulsory

ECTS credits: 7

Pre-requisites: none

Aims of the course:
The objective of the course is to train students for designing urban roads. The course is designed to give students a certain level of ability to participate independently and as part of a team in designing urban roads and collecting data for design.

Learning outcomes:
Student's ability to participate independently and as part of a team in designing city roads and collecting data for project development.

Syllabus:

Theoretical part

Impacts of urban traffic. Definition and division of urban roads. Specificity in relation to rural roads. Elements of the horizontal axis of the road. Elements of the vertical axis of the road. Cross-section profiles. Bicycle paths. Hiking trails. Crossroads with special reference to circular crossroads. Drainage and specific drainage. Road construction.

Practical part

Definition of the situational plan of a city road on the basis of project conditions. Defining the vertical axis of the city roadway on the basis of project conditions. Calculating elements and drawing cross-sectional profiles of a city road.

- Exercise no. 1, the calculation of elements of the horizontal axis of a city road;
- Exercise no. 2, the calculation of elements of the vertical axis of a city road;
- Exercise no. 3, the calculation of elements of the cross section of a city road.

Literature:

1. Anđus, Miletin, *Gradske Saobraćajnice*, 1996.
2. Mihailo Miletin, *Planiranje saobraćaja i prostora*, 2004.
3. Plemenac, Jovičić, *Saobraćajnice 1*, 2009.

Number of active classes			Other forms of teaching:
Lectures: 4	Practical classes: 3	Laboratory classes: 0	

Teaching methods:
Combined-interactive teaching with examples from practice and fieldwork to collect project data.

Grading system (maximum 100 points), **grading scale** from 5 to 10: below 51 points grade 5, grade 6 from 51-60 points, grade 7 from 61-70 points, grade 8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91-100 points.

Pre-commitments	**points**	**Final exam**	**points**
activity during lectures	10	written exam	-
practical training	25	oral exam	30
colloquium(s)	20 + 15		
Sum	**70**	**Sum**	**30**