ERASMUS+
EU programme for education, training, youth and sport

Incoming student mobility

Name of UNIOS University Unit:

COURSES OFFERED IN FOREIGN LANGUAGE
FOR ERASMUS+ INDIVIDUAL INCOMING STUDENTS

Department or Chair within the UNIOS Unit	Faculty of Civil Engineering and Architecture Osijek

Study program	Civil engineering

Study level (bachelor/master)	master

Course title	Road intersection
Course code (ISVU)	117067
Language of instruction	English
Course content	Road intersection traffic: the splitting of traffic flows; types of traffic flows; traffic operations; traffic regimes; traffic flow channelling. Selection criteria for the type of junctions: traffic-planning; traffic-technical, traffic-construction. Intersection classification: level intersections, grade-separated intersections, combined intersections. The geometry of the vehicle motion. Intersection elements: traffic lane width, traffic lane length, design of the intersection elements, traffic islands. Route design in the intersection field: visibility; longitudinal gradients and cross slopes.
Prerequisites for enrolment (if any)	Basic knowledge of road design
Learning outcomes	Analyse the types, elements and functional characteristics of road junctions. Determine the dimensions of key road junction elements to meet traffic and spatial requirements. Evaluate alternative designs for road junctions, including at-grade intersections.
Basic Literature	Legac, I: Raskrižja javnih cesta-cestovne prometnice II, Fakultet prometnih znanosti, 2008. (in Croatian) Roundabouts: An Informative Guide, U.S. Department of Transportation, FHWA, 2020.
Additional Literature	Internal course script

Form of teaching	Lectures, practical exercises
Form of assessment	Written and oral exam
Number of ECTS	5
Class hours per week	2 (lectures) + 2 (exercises)
Period of realization (summer/winter semester)	summer semester
Teacher(s) + Email address	Prof. Ivana Barišić, ivana@gfos.hr
Assistant(s) + Email address(es)	Prof. Ivana Barišić, ivana@gfos.hr