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

Study program	Civil engineering , Hydraulic engineering-modul

Study level (bachelor/master)	Master

Course title	Land reclamation
Course code (ISVU)	294946
Language of instruction	English
Course content	**Lectures:** Introduction to land reclamation Hydraulic structures in the land drainage system Calculation on basic parameters of surface and subsurface drainage system Irrigation methods Calculation of crop water requirement for irrigation Hydraulic calculation of irrigation systems Technologies of construction and maintenance in land reclamation Environmental impact assessment **Exercises:** Design of subsurface and surface drainage system Hydraulic calculation of structures Calculation of crop water requirements for irrigation
Prerequisites for enrolment (if any)	-
Learning outcomes	1. Definition of surface and subsurface drainage requirements 2. Ability to carry out hydrological and hydraulic calculation of surface and subsurface drainage 3. Ability to design hydraulic structures 4. Prediction of environmental assessments of surface and subsurface drainage 5. Description and application of basic irrigation methods

	6. Ability to carry out hydrological and hydraulic calculation of irrigation system
Basic Literature	Priručnici za hidrotehničke melioracije, kolo I -odvodnja, knjige 1-6 https://hhd.hr/publikacije/prirucnici/ (in Croatian) Priručnici za hidrotehničke melioracije, kolo II - navodnjavanje, knjiga 1-7 https://hhd.hr/publikacije/prirucnici/ (in Croatian) Lecture notes (in English)
Additional Literature	Drainage Principles and Application (edit: H.P.Ritzema 1994) https://www.samsamwater.com/library/pub162.pdf
Form of teaching	Lectures and exercises
Form of assessment	Partial written exams
Number of ECTS	5.0
Class hours per week	30+30
Period of realization (summer/winter semester)	Summer semester
Teacher(s) + Email address	Prof. Lidija Tadić, ltadic@gfos.hr
Assistant(s) + Email address(es)	Assoc. Prof. Tamara Brleković, tamaradadic@gfos.hr