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Presentation of studies related to WRM at the University of Rijeka, Faculty of Civil Engineering (UNIRIFCE)

Barbara Karleuša
University of Rijeka, Faculty of Civil Engineering - UNIRIFCE

Theme-based training of teaching staff for acquiring new teaching and learning methods, Rijeka, 18/09/2019

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1. UNIRIFCE studies structure

2. Master study programme structure:
   - Hydraulic Engineering
   - Urban Engineering

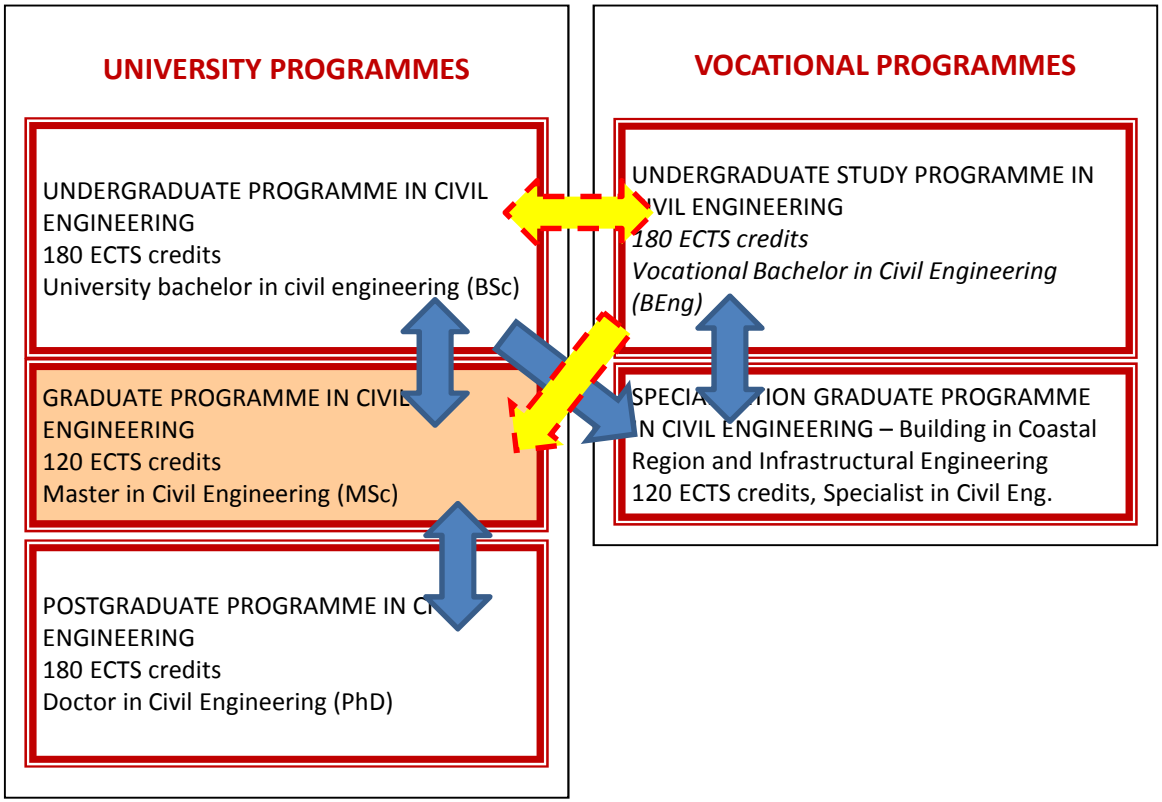
3. Master thesis models

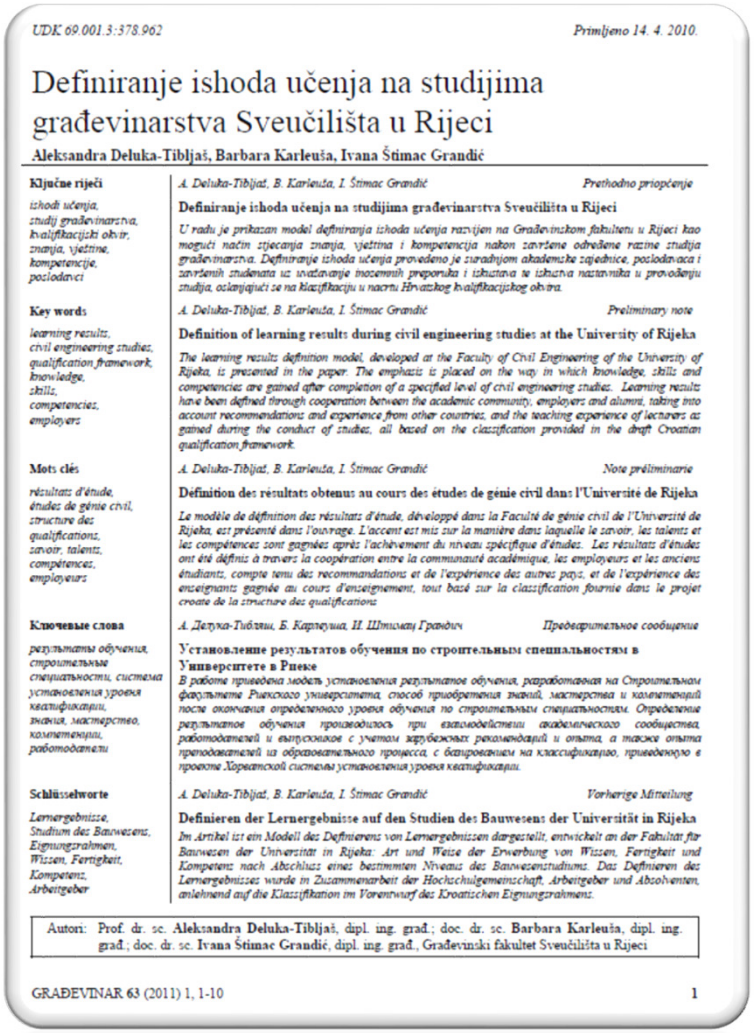
4. Regulations about studing and grading

5. Databases

6. Discussion

1. UNIRIFCE studies structure





UDK 69.001.3:378.962 Primljeno 14. 4. 2010.

Definiranje ishoda učenja na studijima građevinarstva Sveučilišta u Rijeci

Aleksandra Deluka-Tibljaš, Barbara Karleuša, Ivana Štimac Grandić

Ključne riječi

ishodi učenja, studij građevinarstva, kvalifikacijski okvir, znanja, vještine, kompetencije, poslodavci

Key words

learning results, civil engineering studies, qualification framework, knowledge, skills, competencies, employers

Mots clés

résultats d'étude, études de génie civil, structure des qualifications, savoir, talents, compétences, employeurs

Ключевые слова

результаты обучения, строительные специальности, система установления уровня квалификации, знания, мастерство, компетенции, работодатели

Schlüsselworte

Lernergebnisse, Studium des Bauwesens, Eignungsrahmen, Wissen, Fertigkeit, Kompetenz, Arbeitgeber

A. Deluka-Tibljaš, B. Karleuša, I. Štimac Grandić — *Prethodno priopćenje*

Definiranje ishoda učenja na studijima građevinarstva Sveučilišta u Rijeci

U radu je prikazan model definiranja ishoda učenja razvijen na Građevinskom fakultetu u Rijeci kao mogući način stjecanja znanja, vještina i kompetencija nakon završene određene razine studija građevinarstva. Definiranje ishoda učenja provedeno je suradnjom akademske zajednice, poslodavaca i završenih studenata uz uvažavanje inozemnih preporuka i iskustava te iskustva nastavnika u provođenju studija, oslanjajući se na klasifikaciju u nacrtu Hrvatskog kvalifikacijskog okvira.

A. Deluka-Tibljaš, B. Karleuša, I. Štimac Grandić — *Preliminary note*

Definition of learning results during civil engineering studies at the University of Rijeka

The learning results definition model, developed at the Faculty of Civil Engineering of the University of Rijeka, is presented in the paper. The emphasis is placed on the way in which knowledge, skills and competencies are gained after completion of a specified level of civil engineering studies. Learning results have been defined through cooperation between the academic community, employers and alumni, taking into account recommendations and experience from other countries, and the teaching experience of lecturers as gained during the conduct of studies, all based on the classification provided in the draft Croatian qualification framework.

A. Deluka-Tibljaš, B. Karleuša, I. Štimac Grandić — *Note préliminarie*

Définition des résultats obtenus au cours des études de génie civil dans l'Université de Rijeka

Le modèle de définition des résultats d'étude, développé dans la Faculté de génie civil de l'Université de Rijeka, est présenté dans l'ouvrage. L'accent est mis sur la manière dans laquelle le savoir, les talents et les compétences sont gagnées après l'achèvement du niveau spécifique d'études. Les résultats d'études ont été définis à travers la coopération entre la communauté académique, les employeurs et les anciens étudiants, compte tenu des recommandations et de l'expérience des autres pays, et de l'expérience des enseignants gagnée au cours d'enseignement, tout basé sur la classification fournie dans le projet croate de la structure des qualifications.

*А. Делука-Тибляш, Б. Карлеуша, И. Штимац Гранди*ч — *Предварительное сообщение*

Установление результатов обучения по строительным специальностям в Университете в Риеке

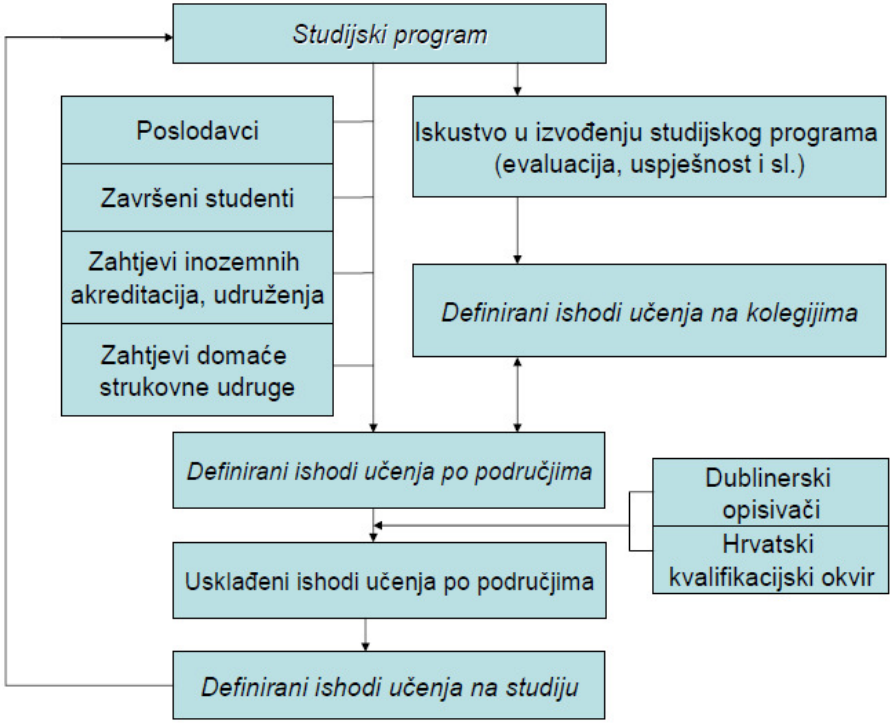
В работе приведена модель установления результатов обучения, разработанная на Строительном факультете Риекского университета, способ приобретения знаний, мастерства и компетенций после окончания определенного уровня обучения по строительным специальностям. Определение результатов обучения производилось при взаимодействии академического сообщества, работодателей и выпускников с учетом зарубежных рекомендаций и опыта, а также опыта преподавателей из образовательного процесса, с базированием на классификацию, приведенную в проекте Хорватской системы установления уровня квалификации.

A. Deluka-Tibljaš, B. Karleuša, I. Štimac Grandić — *Vorherige Mitteilung*

Definieren der Lernergebnisse auf den Studien des Bauwesens der Universität in Rijeka

Im Artikel ist ein Modell des Definierens von Lernergebnissen dargestellt, entwickelt an der Fakultät für Bauwesen der Universität in Rijeka: Art und Weise der Erwerbung von Wissen, Fertigkeit und Kompetenz nach Abschluss eines bestimmten Niveaus des Bauwesenstudiums. Das Definieren des Lernergebnisses wurde in Zusammenarbeit der Hochschulgemeinschaft, Arbeitgeber und Absolventen, anlehnend auf die Klassifikation im Vorentwurf des Kroatischen Eignungsrahmens.

Autori: Prof. dr. sc. **Aleksandra Deluka-Tibljaš**, dipl. ing. grad.; doc. dr. sc. **Barbara Karleuša**, dipl. ing. grad.; doc. dr. sc. **Ivana Štimac Grandić**, dipl. ing. grad., Građevinski fakultet Sveučilišta u Rijeci



Slika 1. Shema modela definiranja ishoda učenja na Građevinskom fakultetu Sveučilišta u Rijeci

Teaching projects:

http://www.gradri.uniri.hr/hr/osiguravanje-kvalitete/projekti.html

11/2004 -09/2005 project **Monitoring and improving the quality of study at the Faculty of Civil Engineering, University of Rijeka** (Praćenje i unaprjeđenje kvalitete studiranja na Građevinskom fakultetu Sveučilišta u Rijeci), National Foundation for Science, Higher Education and Technological Development of the Republic of Croatia, project leader prof.dr.sc. Aleksandra Deluka-Tibljaš.

06/2008. -06/2009 project **Learning outcomes in civil engineers education** (Ishodi učenja u obrazovanju građevinskih inženjera – IGI), National Foundation for Science, Higher Education and Technological Development of the Republic of Croatia, project leader prof.dr.sc. Aleksandra Deluka-Tibljaš.

04/2015 - 09/2016 project **Development and application of qualification framework in the field of higher education of civil engineers** (Razvoj i primjena kvalifikacijskog okvira u području visoko obrazovanja građevinskih inženjera), ESF, leader assoc. prof. dr. sc. Zlata Dolaček – Alduk.

06/2008. -06/2009 project **Learning outcomes in civil engineers education**

Handbook for defining learning outcomes:

http://www.gradri.uniri.hr/files/znanstveno-istrazivaci-rad/projekti/Vodic_za_ishode_ucenja.pdf

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UNIVERSITY

UNDERGRADUATE PROGRAMME IN CIVIL ENGINEERING

180 ECTS credits

University bachelor in civil engineering (BSc)

Compulsory courses - WRM:

- Hydrology 30L+15E (3 ECTS)
- Fluid mechanics 30L+30E (5.5 ECTS)
- Introduction to hydraulic engineering 30L+30E (5 ECTS)

Elective courses - WRM:

- Introduction to coastal engineering 30L+30E (5 ECTS)
- Water resources and systems 30L+30S (5 ECTS)

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VOCATIONAL

UNDERGRADUATE PROGRAMME IN CIVIL ENGINEERING

180 ECTS credits

Vocational bachelor in civil engineering (BSc)

Compulsory courses - WRM:

- Hydraulic structures 45L+15E+15S (5.5 ECTS)

Elective courses - WRM:

- Instalations 30L+25E (4 ECTS)
- Coastal Structure Engineering 30L+30E (5.5 ECTS)
- Water supply and sewerage 30L+30E (5.5 ECTS)
- Regulations and meliorations 30L+30E (5.5 ECTS)

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DIFFERENTIAL YEAR PROGRAMME for MASTER STUDY ENROLLMENT

VOCATIONAL BSc ⇨ UNIVERSITY MSc

Courses - WRM:

- Selected chapters from hydraulic engineering 1 – 15L+5S (3 ECTS)
- Selected chapters from hydraulic engineering 2 – 15L+5S (3 ECTS)

2. Master study programme – structure

In the University master study programme in civil engineering students can enrol in one of 5 different branches / **occupational fields**:

- **Hydraulic Engineering**
- **Urban Engineering**
- Transportation engineering
- Geotechnical Engineering
- Structures
- Engineering Modelling of Structures

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Structure (by semesters)

I Semester	II Semester	III Semester	IV Semester
Common graduate study programme: **4 (four) compulsory courses** **2 (two) elective courses depending from enrolled module - branch**	**COMPULSORY COURSES 1. MODUL** (Geotechnical Engineering, Hydraulic Engineering, Engineering Modelling of Structures, Structures, Transportation Engineering, Urban Engineering)	**COMPULSORY AND ELECTIVE COURSES 2. MODUL** (Geotechnical Engineering, Hydraulic Engineering, Engineering Modelling of Structures, Structures, Transportation Engineering, Urban Engineering)	**FINAL YEAR PROJECT** (15-30 ECTS) **FIELD WORK – practical teaching** (0-15 ECTS)
30 ECTS	**30 ECTS**	**30 ECTS**	**30 ECTS**

Common part of the MSc programme in civil engineering – 1st SEMESTER, 1st YEAR (L-lessons, E-exercises, S-Seminars)

	Compulsory courses	*Hours of active classes (L+E+S)*	*ECTS*
1.	Probability Theory and Statistics	30+30+0	4
2.	Theory and Technology of Concrete	30+15+15	5
3.	Project Management	30+15+15	5
Elective courses of group I - Student selects one of the following two courses			
4.	Numerical Modelling	30+30+0	6
	Programming in Modelling	30+30+0	6
	Elective courses	***Hours of active classes (L+E+S)***	***ECTS***
1.	Computational Hydraulics	45+15+0	5
2.	Engineering Rock Mechanics	30+30+	5
3.	Road Intersections and Crossroads	20+15+15	5
4.	Concrete and Masonry Structures 1	45+30+0	6
5.	Theory of Elasticity	35+0+10	4
6.	Theoretical Soil Mechanics	40+15+20	6

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2nd (Module 1) and 3rd (Module 2) semester

MODULE – BRANCH: HYDRAULIC ENGINEERING

Hydraulic Engineering Module 1:

	COMPULSORY COURSES	(L+E+S)	ECTS
1.	Water Supply and Drinking	30+30+0	6
2.	Drainage and Wastewater Treatment	30+30+0	6
3.	Hydraulic Structures	30+30+0	6
	ELECTIVE COURSES		12
	TOTAL		**30**

	ELECTIVE COURSES	(L+E+S)	ECTS
1.	Experimental Hydraulics	30+30+0	4
2.	Water Resources Management	30+0+30	4
3.	Karst Hydrosystems	30+0+30	4
4.	Waste Management	30+10+5	4
5.	*Operations Research and Linear Programming **	*30+0+30*	*6*

**Elective courses of other fields (modules)*

Hydraulic Engineering Module 2:

	COMPULSORY COURSES	(L+E+S)	ECTS
1.	Engineering Hydrology	30+30+0	6
2.	Hydraulic Regulations and Meliorations	30+30+0	6
3.	Coastal Engineering	30+15+15	6
	ELECTIVE COURSES		12
	TOTAL		**30**

	ELECTIVE COURSES	(L+E+S)	ECTS
1.	Hydraulic Modelling	30+30+0	4
2.	Computational Hydrodynamics	30+30+0	4
3.	Water Power Development	30+30+0	4
4.	*Seepage and Consolidation of Soil**	*30+15+15*	*4*
5.	*Underground Structures and Tunnels**	*30+30+0*	*6*
6.	*Slope Stability**	*30+30+0*	*6*
7.	*Geohazards**	*20+10+15*	*4*
8.	*Civil Engineering Regulations**	*30+0+0*	*4*

MODULE – BRANCH: URBAN ENGINEERING – Interdisciplinary module

Urban Engineering Module 1:

	COMPULSORY COURSES	(L+E+S)	ECTS
1.	Spatial Planning	40+10+10	5
2.	*Waste Management**	*30+10+5*	4
3.	*Urban Traffic**	*30+30+0*	6
	ELECTIVE COURSES		15
	TOTAL		**30**

	ELECTIVE COURSES	(L+E+S)	ECTS
1.	Management in Civil Engineering	30+0+15	3
2.	Investment Policy	30+15+0	3
3.	*Foundation Engineering***	*30+15+15*	*6*
4.	*Traffic Engineering***	*30+15+15*	*5*
5.	*Traffic Buildings***	*30+30+0*	*5*
6.	*Traffic, Space and Environment ***	*30+0+15*	*3*
7.	*Road Design***	*20+20+10*	*5*
8.	*Water Supply and Drinking Water Treatment***	*30+30+0*	*6*
9.	*Water Resources Management***	*30+0+30*	*4*
10.	*Operations Research and Linear Programming***	*30+0+30*	*6*
11.	*Drainage and Wastewater Treatment***	*30+30+0*	*6*

** Compulsory courses of other fields (modules)*
*** Elective courses of other fields (modules)*

Urban Engineering Module 2:

	COMPULSORY COURSES	(L+E+S)	ECTS
1.	GIS in Municipal Infrastructure Planning	30+15+15	6
2.	Public Buildings and Spaces	30+0+30	6
3.	Urban Water Systems	30+15+15	6
	ELECTIVE COURSES		12
	TOTAL		**30**

	ELECTIVE COURSES	(L+E+S)	ECTS
1.	Civil Engineering Regulations	30+0+0	4
2.	Building Maintenance	30+15+0	4
3.	*Geotechnical Structures**	*30+30+5*	*6*
4.	*Underground Structures and*	*30+30+0*	*6*
5.	*Geohazards***	*20+10+15*	*4*
6.	*Engineering Hydrology**	*30+30+0*	*6*
7.	*Hydraulic Regulations and Meliorations**	*30+30+0*	*6*
8.	*Maintenance and Repair of Roads **	*30+15+05*	*3*
9.	*Flexible Pavement Structures **	*30+30+0*	*6*
10.	*Coastal Engineering*	30+15+15	6

4th semester

	COURSE	ECTS
1.	FIELD WORK – practical teaching	0-15
2.	**FINAL YEAR PROJECT / MASTER THESIS**	15-30

3. Master thesis – models

4th semester

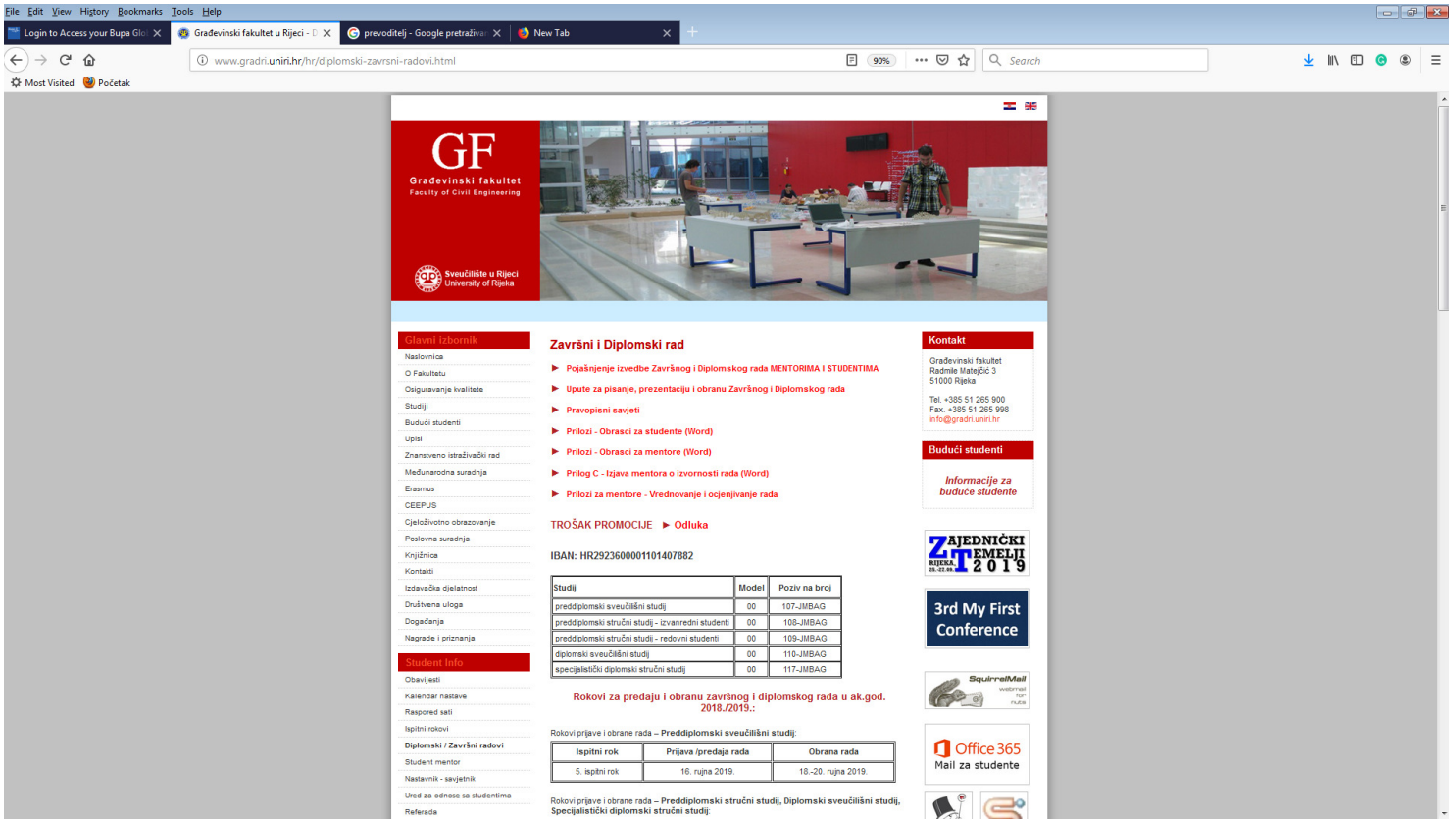
	COURSE	ECTS
1.	FIELD WORK – practical teaching	0-15
2.	**FINAL YEAR PROJECT / MASTER THESIS**	15-30

- Model 1 – preparation of master thesis (traditional) – 30ECTS

- Model 2 - preparation of master thesis with practical teaching:
  0 - 15 ECTS – practical teaching/field work
  15 – 30 ECTS –master thesis

3. Master thesis

http://www.gradri.uniri.hr/hr/diplomski-zavrsni-radovi.html



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3. Master thesis - model 1

SVEUČILIŠTE U RIJECI
GRAĐEVINSKI FAKULTET U RIJECI

Sveučilišni diplomski studij
Hidrotehnika
Odvodnja i pročišćavanje otpadnih voda

Dorotea Starčević
JMBAG: 0114026394

Analiza varijantnih rješenja odvodnje otpadnih voda na području Općine Fužine

Diplomski rad

Rijeka, srpanj 2019.

Analysis of sewage system alternatives in the Fužine municipality

ABSTRACT

The aim of this graduation thesis is to analyze the alternatives for the sewer system of Municipality Fužine – Settlements Vrata, Fužine and Lič. Three alternatives were considered - combined sewer system, combined sewer system with combined sewer overflow and separate sewer system (only sanitary wastewater drainage).

The software for design, calculation and analysis of rainwater and sanitary wastewater Urbano Canalis 9.1. was used for this thesis preparation. The sewer network was set up for all three alternatives and a corresponding hydraulic calculation was performed.

Based on the results of the hydraulic calculation, the systems were compared and the specific problems related to each system were analyzed.

Beside the analysis of the alternatves for sewege system of Municipality Fužine, in this thesis are compared characteristics of combined and separate sewer system related to the previously conducted studies.

KEY WORDS: wastewater drainage, combined sewer system, separate sewer system, Municipality Fužine, Urbano Canalis 9.1., hydraulic calculation

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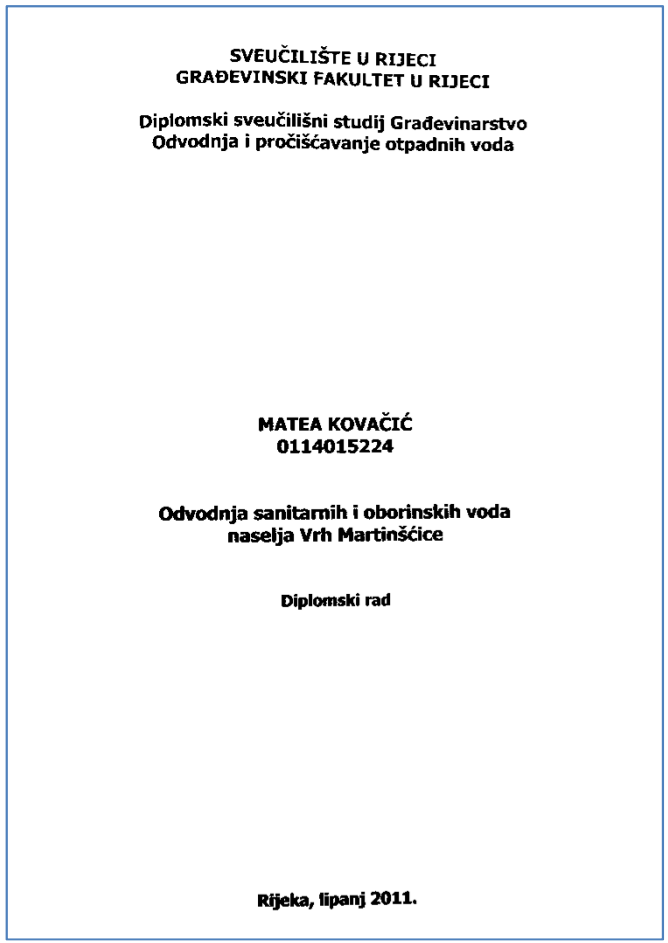
3. Master thesis - model 2



SVEUČILIŠTE U RIJECI
GRAĐEVINSKI FAKULTET U RIJECI

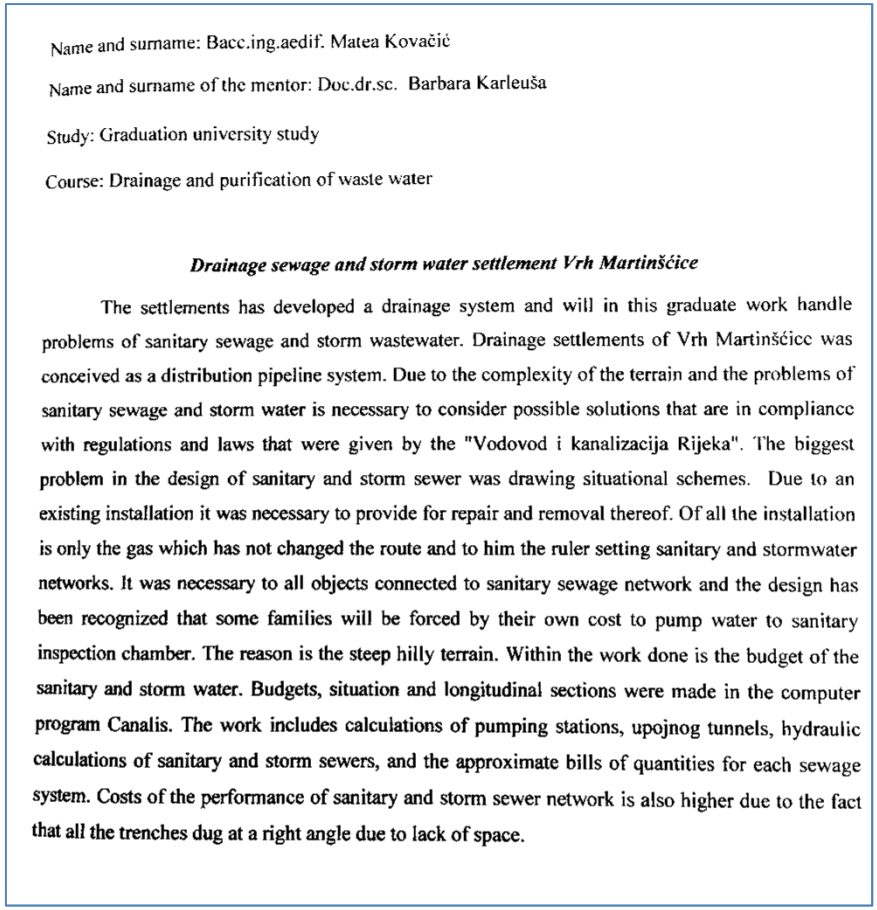
Diplomski sveučilišni studij Građevinarstvo
Odvodnja i pročišćavanje otpadnih voda

MATEA KOVAČIĆ
0114015224

Odvodnja sanitarnih i oborinskih voda naselja Vrh Martinšćice

Diplomski rad

Rijeka, lipanj 2011.



Name and surname: Bacc.ing.aedif. Matea Kovačić

Name and surname of the mentor: Doc.dr.sc. Barbara Karleuša

Study: Graduation university study

Course: Drainage and purification of waste water

Drainage sewage and storm water settlement Vrh Martinšćice

The settlements has developed a drainage system and will in this graduate work handle problems of sanitary sewage and storm wastewater. Drainage settlements of Vrh Martinšćicc was conceived as a distribution pipeline system. Due to the complexity of the terrain and the problems of sanitary sewage and storm water is necessary to consider possible solutions that are in compliance with regulations and laws that were given by the "Vodovod i kanalizacija Rijeka". The biggest problem in the design of sanitary and storm sewer was drawing situational schemes. Due to an existing installation it was necessary to provide for repair and removal thereof. Of all the installation is only the gas which has not changed the route and to him the ruler setting sanitary and stormwater networks. It was necessary to all objects connected to sanitary sewage network and the design has been recognized that some families will be forced by their own cost to pump water to sanitary inspection chamber. The reason is the steep hilly terrain. Within the work done is the budget of the sanitary and storm water. Budgets, situation and longitudinal sections were made in the computer program Canalis. The work includes calculations of pumping stations, upojnog tunnels, hydraulic calculations of sanitary and storm sewers, and the approximate bills of quantities for each sewage system. Costs of the performance of sanitary and storm sewer network is also higher due to the fact that all the trenches dug at a right angle due to lack of space.

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OBRAZAC ZA ODRAĐIVANJE DIJELA KOLEGIJA DIPLOMSKI RAD KROZ PRAKTIČNU NASTAVU

Građevinski fakultet Sveučilišta u Rijeci

Sveučilišni diplomski studij građevinarstva

Ak.god.:	2010./11.
IME I PREZIME STUDENTA/DIPLOMANTA:	MATEA KOVAČIĆ
Usmjerenje/modul(i):	URBANO INŽENJERSTVO
Kolegij iz koje se izrađuje diplomski rad:	Odvodnja i pročišćavanje otpadnih voda
Tema diplomskog rada:	Izrada dijela idejnog projekta odvodnje sanitarnih i oborinskih voda Vrha Martinščice
BROJ ECTS-a i sati koje će diplomant odraditi kroz praktičnu nastavu:	
Cilj upućivanja studenta na praktičnu nastavu i kraći **plan rada** (aktivnosti):	Izrada dijela idejnog projekta odvodnje sanitarnih i oborinskih voda Vrha Martinščice Aktivnosti tijekom praktične nastave: 1. Analiza: - Postojeće projektne dokumentacije - Prostorno-planske dokumentacije - Važeće zakonske regulative (zakoni, pravilnici, uredbe,...) i dr. podloga 2. Terenski obilazak lokacije Vrh Martinščice 3. Upoznavanje sa radom u programskom paketu Urbano Canalis 4. Postavljanje kanalizacijske mreže (razdjelni sustav) za odvodnju sanitarnih i oborinskih voda na području Vrha Martinščice 5. Izrada hidrauličkog proračuna 6. Izrada statičkog proračuna kolektora 7. Izrada grafičkih priloga
Mentor (nastavnik s GF):	Doc.dr.sc. Barbara Karleuša
Potpis mentora:	
Datum:	03.03.2011.

Naziv tvrtke :	Institut IGH d.d.
Odjel:	
Matični broj tvrtke:	
Datum planiranog početka:	07.03.2011.
Datum planiranog završetka:	
Odgovorna osoba koja će pratiti rad diplomanta u tvrtci:	Nives Klobučar, dipl.ing.građ.
Potpis i pečat tvrtke:	
Datum prijave:	03.03.2011.

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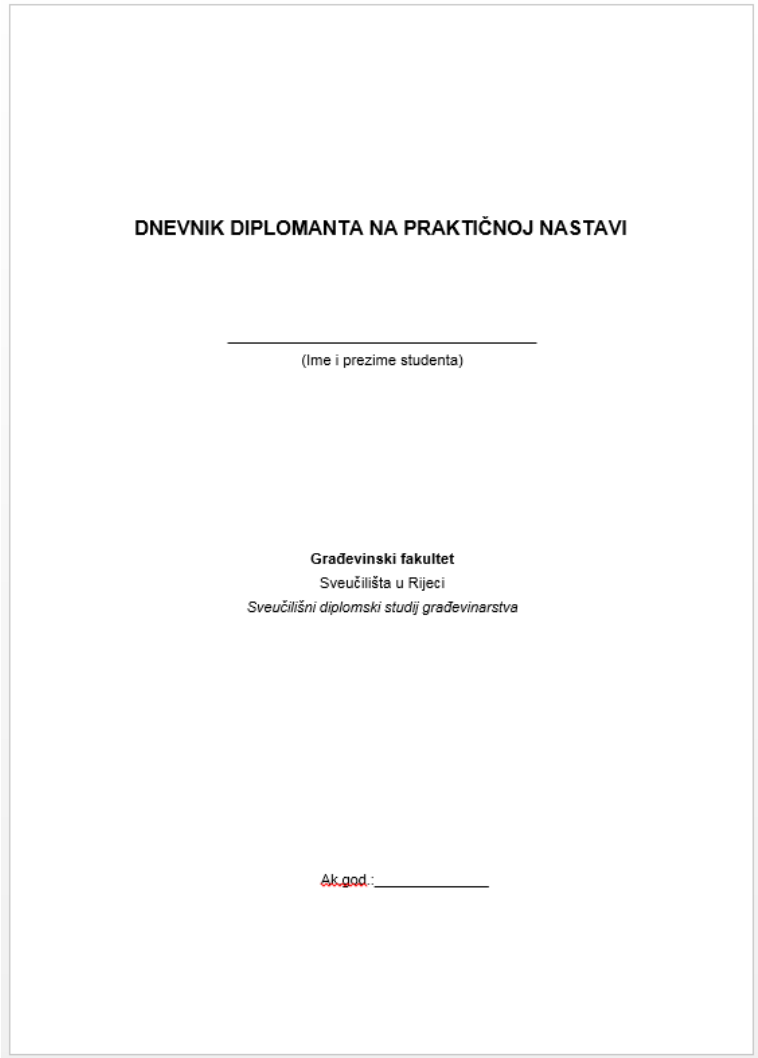


DNEVNIK DIPLOMANTA NA PRAKTIČNOJ NASTAVI

_____

(Ime i prezime studenta)

Građevinski fakultet
Sveučilišta u Rijeci
Sveučilišni diplomski studij građevinarstva

Ak.god.:_____

1. OBRAZAC ZA UPUĆIVANJE STUDENTA - ODRAĐIVANJE DIJELA KOLEGIJA DIPLOMSKI RAD KROZ PRAKTIČNU NASTAVU
(ispuniti prije početka praktične nastave te uvezati u Dnevnik)

Građevinski fakultet Sveučilišta u Rijeci
Sveučilišni diplomski studij građevinarstva

Ispunjava student	Ak.god.:	
	IME I PREZIME STUDENTA/DIPLOMANTA:	
	Usmjerenje/modul(i):	
	Kolegij iz kojeg se izrađuje diplomski rad:	
	Tema diplomskog rada:	
Ispunjava nastavnik - mentor	BROJ ECTS-a i sati koje će diplomant odraditi kroz praktičnu nastavu	
	Cilj upućivanja studenta na praktičnu nastavu i kraći **plan rada** (aktivnosti):	
	Mentor (nastavnik s GF):	
	Potpis mentora:	
	Datum:	

Ispunjavaju u tvrci	Naziv tvrtke :	
	Odjel:	
	Matični broj tvrtke:	
	Datum planiranog početka praktične nastave:	
	Datum planiranog završetka praktične nastave:	
	Odgovorna osoba koja će pratiti rad diplomanta u tvrtci:	
	Potpis i pečat tvrtke:	
	Datum prijave:	

2. OBRAZAC - POTVRDA O OBAVLJENOJ PRAKTIČNOJ NASTAVI
(ispuniti nakon obavljene praktične nastave te uvezati u Dnevnik)

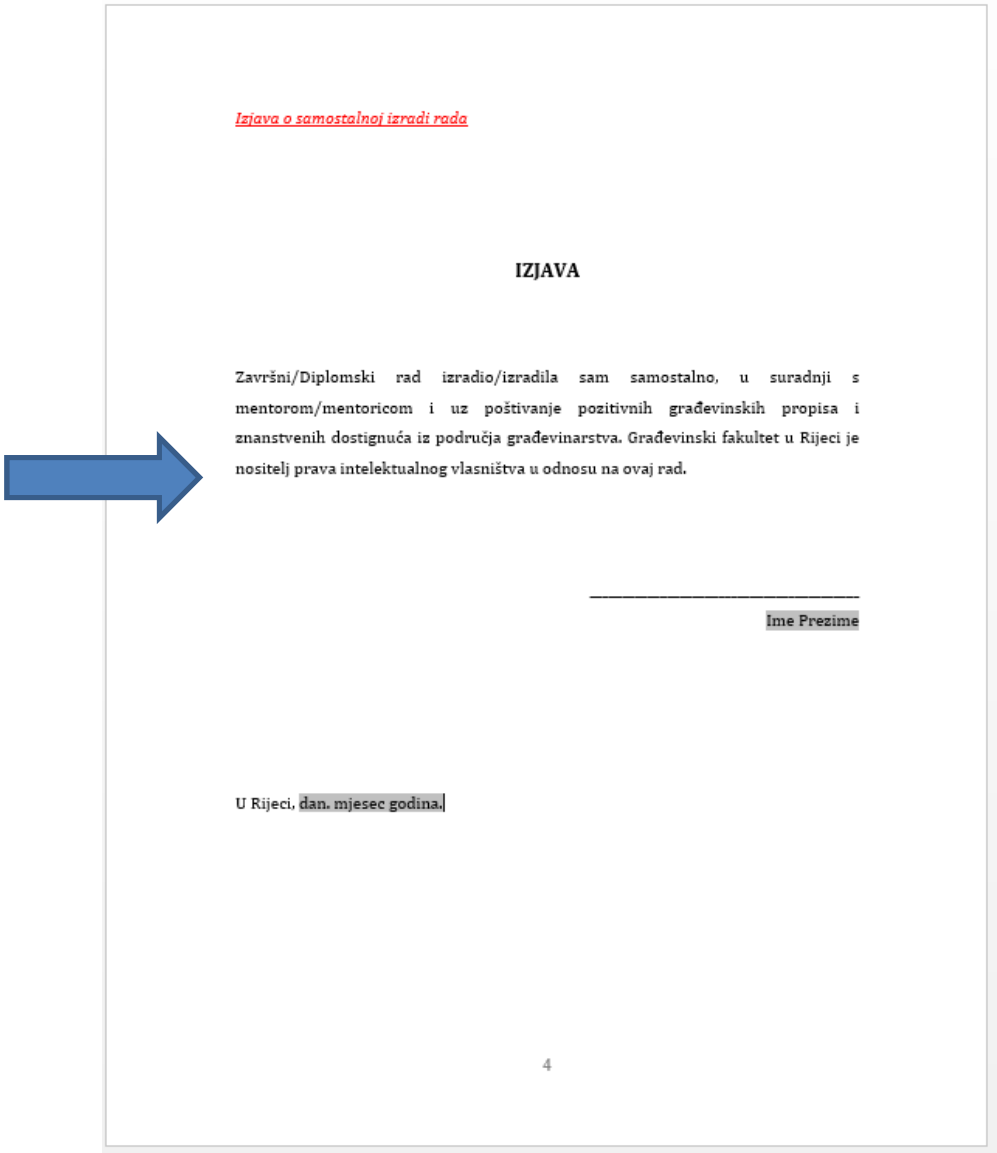
Građevinski fakultet Sveučilišta u Rijeci
Sveučilišni diplomski studij građevinarstva

Ispunjavaju u tvrci	
Naziv tvrtke :	
Odjel:	
Matični broj tvrtke:	
IME I PREZIME STUDENTA/DIPLOMANTA:	
Diplomant je praktičnu nastavu *(zaokružiti)*:	Uspješno obavio / Nije obavio
Datum početka praktične nastave:	
Datum završetka praktične nastave:	
Komentar:	
Odgovorna osoba koja je pratila rad diplomanta u tvrtci:	
Potpis i pečat tvrtke:	
Datum ovjere potvrde:	

Ispunjava nastavnik - mentor nakon pregleda Dnevnika	
Diplomant je tijekom praktične nastavu ostvario cilj upućivanja na praktičnu nastavu i provedene aktivnosti definirane u planu rada *(zaokružiti)*:	DA / NE
Broj ECTS-a koje je diplomant ostvario kroz praktičnu nastavu:	
Komentar:	
Mentor (nastavnik s GF):	
Potpis mentora:	
Datum:	

3. DNEVNIK
(Ispunjava student za svaki dan odrađene praktične nastave)

Datum:
Broj sati odrađene praktične nastave:
Aktivnost:
Opis aktivnosti tijekom dana, bilješke, komentari:



Izjava o samostalnoj izradi rada

IZJAVA

Završni/Diplomski rad izradio/izradila sam samostalno, u suradnji s mentorom/mentoricom i uz poštivanje pozitivnih građevinskih propisa i znanstvenih dostignuća iz područja građevinarstva. Građevinski fakultet u Rijeci je nositelj prava intelektualnog vlasništva u odnosu na ovaj rad.

_____

Ime Prezime

U Rijeci, dan. mjesec godina.

4

3. Master thesis

Co-funded by the Erasmus+ Programme of the European Union

1. OBRAZAC ZA UPUCIVANJE STUDENTA – ODRAĐIVANJE DIJELA KOLEGIJA DIPLOMSKI RAD KROZ PRAKTICNU NASTAVU
(ispuniti prije početka praktične nastave te uvezati u Dnevnik)

Građevinski fakultet Sveučilišta u Rijeci

Sveučilišni diplomski studij Građevinarstvo

Ak. god.:	2010./11.
IME I PREZIME STUDENTA/DIPLOMANTA:	MORANA LALIĆ
Usmjerenje/modul(i):	URBANO INŽENJERSTVO
Kolegij iz koje se izrađuje diplomski rad:	ODVODNJA I PROČIŠĆAVANJE OTPADNIH VODA
Tema diplomskog rada:	VODOOPSKRBA I ODVODNJA OTOKA UNIJE U OKVIRU ODRŽIVOG RAZVOJA (radni naslov)
BROJ ECTS-a i sati koje će diplomant odraditi kroz praktičnu nastavu:	10 ECTS-a (1 ECTS iznosi 28 sati aktivnog rada studenta)
Cilj upućivanja studenta na praktičnu nastavu i kraći **plan rada** (aktivnosti):	Diplomantica će tijekom praktične nastave: – analizirati primjere samoodrživih otoka u EU i u svijetu, kako bi se upoznala s postojećim pristupima i tehnologijama za osiguranje samoodrživosti otoka (posebno u području gospodarenja vodama – vodoopskrbe, odvodnje, navodnjavanja i sl.) – analizirati postojeće stanje vodoopskbe i odvodnje na otoku Unije – analizirati prostorno-plansku i drugu relevantnu dokumentaciju u kojoj se obrađuje razvoj otoka Unije – analizirati mogućnosti primjene novih pristupa na primjeru otoka Unije – postaviti koncepciju vodoopskbe i odvodnje u sklopu (samo)održivog razvoja otoka Unije koju će kasnije razraditi u diplomskom radu
Mentor (nastavnik s GF):	DOC.DR.SC. BARBARA KARLEUŠA
Potpis mentora:	
Datum:	01.03.2011.

Naziv tvrtke :	ZAVOD ZA PROSTORNO UREĐENJE PGŽ
Odjel:	Služba za stratešku infrastrukturu i razvoj
Matični broj tvrtke:	02317133
Datum planiranog početka:	14.03.2011.
Datum planiranog završetka:	06.05.2011.
Odgovorna osoba koja će pratiti rad diplomanta u tvrtci:	Zoran Skala, dipl.inž. strojarstva
Potpis i pečat tvrtke:	
Datum prijave:	01.03.2011.

Co-funded by the
Erasmus+ Programme
of the European Union

4. Regulations about studing and grading – University level

https://uniri.hr/o-sveucilistu/dokumenti-i-propisi/

Regulations on studying (at the University of Rijeka) / Pravilnik o studijima (na Sveučilištu u Rijeci)

https://uniri.hr/wp-content/uploads/2019/03/Pravilnik_o_studijima_Procisceni_tekst_od_5_lipnja_2018.pdf

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Erasmus+ Programme
of the European Union

4. Regulations about studing and grading – Faculty level

Regulations on studying at the Faculty of Civil Egineering University of Rijeka / Pravilnik o studijima Građevinskog fakulteta u Rijeci

http://www.gradri.uniri.hr/files/Pravilnik_o_studijima_2018.pdf

Regulations on student evaluation and assessment at the Faculty of Civil Egineering University of Rijeka / Pravilnik o vrednovanju i ocjenjivanju rada studenata na GF u Rijeci

http://www.gradri.uniri.hr/files/Dokumenti%20i%20propisi/Pravilnik_o_vrednovanju_i_ocjenjivanju_rada_studenata_na_GF.pdf

5. Databases


www.gradri.uniri.hr/hr/
Obrasci
Stipendije
Zdravstvena zaštita
Studentski zbor
GRASS
Elektronički identitet (AAI)
Računalni kabinet
Demonstrature
Natječaj za izbor
Objavljeno Ponedjeljak, 26 Kolovoz 2019 14:34
Na temelju odluke Fakultetskog vijeća Građevinski fakultet u Rijeci, raspisuje
NATJEČAJ
za izbor
Opširnije...
Jesenski upisni rok 2019./2020.
Objavljeno Utorak, 23 Srpanj 2019 11:46
Objavljena su slobodna mjesta i upute za upis na preddiplomske studije ► OVDJE
Kolektivni godišnji
Objavljeno Utorak, 23 Srpanj 2019 08:24
Fakultet je, zbog korištenja kolektivnog godišnjeg odmora, zatvoren u periodu od 29. srpnja do 16. kolovoza 2019.
Studentska referada je zatvorena od 29. srpnja do 16. kolovoza 2019.
Od 19. kolovoza 2019. Fakultet će za studente raditi u punom radnom vremenu.
Natječaj za upis razlikovnoga programa za upis sveučilišnog diplomskog studija građevinarstva
Objavljeno Ponedjeljak, 15 Srpanj 2019 08:46
Od ove ak. godine Građevinski fakultet u Rijeci pokreće program razlikovne godine za upis na Diplomski sveučilišni studij građevinarstva.
NATJEČAJ ZA UPIS RAZLIKOVNOG PROGRAMA
Natječaj za upis na diplomske studije 2019./2020.
Objavljeno Ponedjeljak, 15 Srpanj 2019 08:43
Objavljen je NATJEČAJ ZA UPIS NA:
- Diplomski sveučilišni studij Građevinarstvo
- Specijalistički diplomski stručni studij Građevinarstvo
3rd Summer School of Computational Fluid Dynamics
Objavljeno Nedjelja, 14 Srpanj 2019 11:12
ISVURI
ENGINEERING REVIEW
Zbornik radova


NastavničkiPortal


ISVURI


Sustav za
rezervaciju prostorija

6. Discussion

Co-funded by the
Erasmus+ Programme
of the European Union

Thank you for your attention!