

Name of teacher:	Silvija Mrakovčić
Employed at: Since:	Faculty of Civil Engineering in Rijeka 1/5/1995
Title: Since: In:	Associate Professor 15/7/2021 Materials
e-mail address, web page	silvija.mrakovcic@uniri.hr
Knowledge of foreign languages:	English, italian, slovenian, german
Qualifications	- date of birth, nationality: 12/12/1968, Rijeka, croatian - First degree obtained at: University of Rijeka, Faculty of Civil Engineering - Master degree obtained at: University of Zagreb, Faculty of Civil Engineering - Ph.D. degree obtained at: University of Zagreb, Faculty of Civil Engineering - additional education: - previous employments:
List of papers published in scientific journals	Čandrić, Vinko; Mrakovčić, Silvija; Hrelja, Gordana Betonski mostovni lučni sklopovi od predgotovljenih odsječaka(Concrete Arch Bridges made of Prefabricated Segments) Građevinar : časopis Hrvatskog društva građevinskih inženjera (0350-2465) 51 (1999), 3; 205-214 Čandrić, Vinko; Mrakovčić, Silvija; Skazlić, Marijan Nove konstrukcije velikih montažnih lučnih mostova(New structures of large-span prefabricated arch bridges) GRAĐEVINAR (0350-2465) 55 (2003), 5; 255-262 Skazlić, Marijan; Bjegović, Dubravka; Mrakovčić, Silvija Mikroarmirani betoni visokih uporabnih svojstava(High performance fiber reinforced concrete) Građevinar (0350-2465) 56 (2004), 2; 69-78 Radić, Jure; Čandrić, Vinko; Mrakovčić, Silvija Novi pristup armiranobetonskim lučnim mostovima Role of Concrete Bridges in Sustainable Development / Ravindra K. Dhir ; Moray D. Newlands ; Michael J. McCarthy (ur.). - Bodmin, Cornwall, Great Britain: Thomas Telford Ltd , 2003. 249+cd Mrakovčić, Silvija; Čeh, Nina; Jugovac; Effect of aggregate grading on pervious concrete properties Građevinar 66 107-113 - 2014. Juradin, S., Boko, I., Netinger Grubeša, I., Jozić, D., Mrakovčić, S.: Influence of harvesting time and maceration method of Spanish Broom (Spartium junceum L.) fibers on mechanical properties of reinforced cement mortar // Construction and building materials, 225 (2019), 243-255 doi:10.1016/j.conbuildmat.2019.07.207 Mrakovčić, S., Bede, N., Ušić, I.: Analysis of Chloride Penetration into High Performance Concrete, Pomorski zbornik, Winkler, 2020. Kožar, I., Bede, N., Bogdanić, A., Mrakovčić, S., Data driven inverse stochastic models for fiber reinforced concrete , Coupled Systems Mechanics, 10 (6), 509 - 520, 2021, doi: 10.12989/csm.2021.10.6.509 Kožar, I., Bede, Mrakovčić, S., Božić, Ž. Verification of a fracture model for fiber reinforced concrete beams in bending, Engineering Failure Analysis 138 (2022) https://doi.org/10.1016/j.engfailanal.2022.106378

List of publications which serve as a proof of teaching qualifications	
Leader of the following research projects	Skazlić, Marijan; Bjegović, Dubravka; Mrakovčić, Silvija Mikroarmirani betoni visokih uporabnih svojstava(High performance fiber reinforced concrete) Građevinar (0350-2465) 56 (2004), 2; 69-78 Mrakovčić, Silvija; Čeh, Nina; Jugovac; Effect of aggregate grading on pervious concrete properties Građevinar 66 107-113 - 2014. Juradin, S., Boko, I., Netinger Grubeša, I., Jozić, D., Mrakovčić, S.: Influence of harvesting time and maceration method of Spanish Broom (Spartium junceum L.) fibers on mechanical properties of reinforced cement mortar // Construction and building materials, 225 (2019), 243-255 doi:10.1016/j.conbuildmat.2019.07.207 Mrakovčić, S., Bede, N., Ušić, I.: Analysis of Chloride Penetration into High Performance Concrete, Pomorski zbornik, Winkler, 2020. Kožar, I., Bede, N., Bogdanić, A., Mrakovčić, S., Data driven inverse stochastic models for fiber reinforced concrete , Coupled Systems Mechanics, 10 (6), 509 - 520, 2021, doi: 10.12989/csm.2021.10.6.509 Kožar, I., Bede, Mrakovčić, S., Božić, Ž. Verification of a fracture model for fiber reinforced concrete beams in bending, Engineering Failure Analysis 138 (2022) https://doi.org/10.1016/j.engfailanal.2022.106378
Participant in the following research projects	1995.-2002. Scientific and research project 114 -102 „Numerical Analysis of Quasibrittle Materials“, Ministry of Science and Education, leader full professor Ivica Kožar 2002.-2006. Scientific and research project 0114002 „Numerical Modelling of Quasibrittle Materials“, Ministry of Science and Education, leader full professor Ivica Kožar 2006.-2008. 114-1460 "Flexible long structures: nonlinear modelling with visulisation", Ministry of Science and Education, leader full professor Ivica Kožar 2008.- „Flexible long structures: nonlinear modelling with visulisation", Ministry of Science and Education, leader full professor Ivica Kožar 2014. - Multi-scale concrete model with parameter identification; Researcher; HRZZ HRZZ IP-2019-04-7926: "Separation of Parameter Influence in Engineering Modelling and Parameter Identification" – SEPAEMPI, 2020. - 2023.; leader Ivica Kožar
Supervision of PhD theses	
Examination of PhD theses	3