

Name of teacher:	Davor Grandić
Employed at: Since:	University of Rijeka, Faculty of Civil Engineering 11 December 2005 -
Academic rank: Since: In:	Full Professor 2020 civil engineering, structural engineering,
e-mail address, web page	dgrandic@gradri.uniri.hr , https://portal.uniri.hr/Portfelj/Index/1115
Knowledge of foreign languages	English, German
Qualifications	- date of birth, nationality: 29 January 1967 in Zagreb, Croatian - First degree obtained at: Faculty of Civil Engineering, University of Zagreb - Ph.D. degree obtained at: Faculty of Civil Engineering, University of Zagreb - additional education: - - previous employments: Civil Engineering Institute in Zagreb, (from 1 Sept. 1995 to 10 Dec. 2005)
List of papers published in scientific journals	1. Grandić, D.; Bjegović, D.; Radić, J.: „Bearing capacity and serviceability of reinforced-concrete structures affected by steel corrosion“, Građevinar, 52 (2000), 3, Zagreb, pp. 153-161. (in Croatian) 2. Grandić, D.; Sorić, Z.: „Testing semi-prefabricated floors made of prestressed brick elements“, Građevinar, 54 (2002), 12, Zagreb, pp. 705-706. (in Croatian) 3. Šimunić, Ž.; Grandić, D.: „Seismic insulation of buildings with elastomeric bearings“, Građevinar, 55 (2003), 2, Zagreb, pp. 71-78. (in Croatian) 4. Grandić, D.; Bjegović, D.; Zorislav, S.: „Experimental stress-strain diagram of corroded reinforcing-steel bars“, Građevinar, 61 (2009), 2, Zagreb, pp. 157-167. (in Croatian) 5. Grgorinić, N.; Grandić, D.; Šćulac, P.: „Repair of the Torpedo Launch Pad Station Reinforced Concrete Structure in Rijeka“, Zbornik radova Građevinskog fakulteta Sveučilišta u Rijeci, 13 (2010), Rijeka, pp. 169-189. (in Croatian) 6. Mrak, P.; Grandić, D.; Meštrović, D.: „Reinforced-concrete walls in earthquake-prone areas“, Građevinar, 32 (2010), 6, Zagreb, pp. 517-527. (in Croatian) 7. Štimac Grandić, I.; Grandić, D.; Bjelanović, A.: "Comparison of techniques for damage identification based on influence line approach", Machines, technologies, materials 7 (2011) ; pp. 9-13. 8. Štimac Grandić, I.; Grandić, D.; Brezac, G.: "Determination of effective width of a T-beam of ribbed bridge deck transversal girder", e-GFOS, 3 (2011), pp. 39-52 (in Croatian) 9. Smolčić, Ž.; Grandić, D.: "Interaction diagrams for reinforced concrete circular cross-section ", Građevinar, 64 (2012) 1, pp. 23-31. 10. Štimac Grandić, I.; Grandić, D.; Strelec, I.: "Verification and Improvement of the Continuous Ribbed Bridge Deck Grillage Model Based on Field Testing", Tehnički vjesnik – Technical Gazette 19 (2012) 3, pp. 611-616. 11. Štimac Grandić, I.; Grandić, D.; Mužić, R.: "Determination of Bridge Global Dynamic Factor", e-gfos, Elektronički časopis građevinskog fakulteta Osijek, 6 (2013) pp. 23-33. (in Croatian) 12. Štimac Grandić, I.; Jakovljević, D.; Grandić, D.: "Impact of omitting the static component from the design dynamic models of pedestrian load", Elektronički časopis Građevinskog fakulteta Osijek, e-GFOS 9 (2014) ; pp. 11-21. 13. Štimac Grandić, I.; Grandić, D.; Bjelanović, A.: "Evaluation of Torsional Stiffness in Beam and Slab Bridge Decks Based on Load Testing", International Journal of Civil Eng. 13 (2015), 3, pp. 255-266. 14. Štimac Grandić, I.; Grandić, D.; Berić, N.: "Parameters affecting the reduction factor in pedestrian load models based on pulsating stationary force", Journal of Applied Engineering Science 13 (2015) 3, pp. 178-184. 15. Grandić, D.; Šćulac, P.; Štimac Grandić, I.: "Shear resistance of reinforced concrete beams in dependence on concrete strength in compressive struts", Tehnički vjesnik :

	znanstveno-stručni časopis tehničkih fakulteta Sveučilišta u Osijeku, 22 (2015) 4, pp. 925-934. 16. Krolo, P.; Grandić, D.; Bulić, M.: "The Guidelines for Modelling the Preloading Bolts in the Structural Connection Using Finite Element Methods", Journal of Computational Engineering, 2016 (2016), DOI: 10.1155/2016/4724312, 8 pp. 17. Krolo, P.; Grandić, D.; Smolčić, Ž.: "Experimental and Numerical Study of Mild Steel Behaviour under Cyclic Loading with Variable Strain Ranges", Advances in Materials Science and Engineering, 2016 (2016), DOI: 10.1155/2016/7863010, 13 pp. 18. Štimac Grandić, I.; Grandić, D.: "Estimation of Damage Severity Using Sparse Static Measurement", Journal of Civil Engineering and Management, 23 (2017), 2, pp. 213-221. 19. Štimac Grandić, Ivana ; Grandić, Davor: Reduction in wind force in relation to corner design of bridge piers // Engineering review (Technical Faculty University of Rijeka), 40 (2020), 2; 88-100. doi: 10.30765/er.40.2.10 20. Grandić, Davor ; Štimac Grandić, Ivana: Pitting factor in use of galvanostatic pulse method for measuring the corrosion rate of reinforcement in concrete // Machines, Technologies, Materials, 15 (2021), 7; 259-263 21. Krolo, P. ; Grandić, D.: Hysteresis Envelope Model of Double Extended End-Plate Bolted Beam-to-Column Joint // Buildings, 11 (2021), 11; 517, 22. doi: 10.3390/buildings11110517 22. Palijan, Ivan; Grandić, Davor; Štimac Grandić, Ivana; Krolo, Paulina; Lukačević, Lazar; Bakran, Antonio: Testing of Innovative Composite Wall/Ceiling Panel // International Scientific Journal Industry 4.0, VIII (2023), 5; 155-158 23. Smolčić, Željko; Grandić, Davor; Ščulac, Paulo: Dimenzioniranje armiranobetonskih pravokutnih presjeka prema drugoj generaciji Eurokoda // Građevinar : časopis Hrvatskog saveza građevinskih inženjera, 75 (2023), 12; 1203-1216. doi: 10.14256/JCE.3855.2023 24. Štimac Grandić, Ivana; Ščulac, Paulo; Grandić, Davor; Vodopija, Iva: The Accessible Design of Pedestrian Bridges // Sustainability, 16 (2024), 3; 1063, 17. doi: 10.3390/su16031063 25. Palijan, Ivan; Krolo, Paulina; Štimac Grandić, Ivana; Grandić, Davor: Testing of the structural composite panels to determine the design resistance models // Machines, Technologies, Materials, 18 (2024), 5; 148-152 26. Grandić, Davor; Štimac Grandić, Ivana; Ščulac, Paulo: Assessment of Mechanical Properties of Corroded Reinforcement in Chloride Environment Based on Corrosion Rate Monitoring // Civil engineering journal (Tehran), 10 (2024), 11; 3473-3492. doi: 10.28991/cej-2024-010-11-02
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List of publications which serve as a proof of teaching qualifications	1. Grandić, D.; Bjegović, D.; Radić, J.: „Grandić, D.; Bjegović, D.; Radić, J.: „Bearing capacity and serviceability of reinforced-concrete structures affected by steel corrosion“, Građevinar, 52 (2000), 3, Zagreb, pp. 153-161. (in Croatian) 2. Šimunić, Ž.; Grandić, D.: „Seismic insulation of buildings with elastomeric bearings“, Građevinar, 55 (2003), 2, Zagreb, pp. 71-78. (in Croatian) 3. Grandić, D.; Bjegović, D.; Banić, D. I.: "Residual Structure Service Life Depending on Steel Corrosion Rate, Global Construction", Dhir, R.K.; Newlands, M. D.; Whyte, A. (ur.), Proceedings of the International Conference held at the University of Dundee: Application of Codes, Design and Regulations, 6th International Congress "Global Construction: ultimate concrete opportunities", Dundee, Škotska, UK, 05-07.06.2005., London: Thomas Telford Publishing, 2005., pp. 195-202. 4. Meštrović, D.; Grandić, D.: "Aseismic strenghtening of masonry buildings", Radić, J.; Rajčić, V.; Žarnić, R. (ur.), Heritage Protection - Constructon Aspects, International Conference Heritage Protection, Dubrovnik 14-17.10.2006., Zagreb: SECON HDGK, 2006., pp. 305-312. 5. Grandić, D.; Bjegović, D.: "Structural Deterioration due to Chloride-Induced Reinforcement Corrosion", Gupta Pawan, Gupta Prabha (ur.), Supplementary Papers - Seventh CANMET/ACI International Conference on Durability of Concrete, Montreal, Kanada, 28.05.-03.06.2006., pp. 173-189. 6. Grandić, D.; Bjegović, D.; Sorić, Z.; Serdar, M.: "Calculating procedures for remaining load bearing capacity and serviceability assessment of corroded reinforced concrete elements", fib (ur.), Concrete: 21st Century Superhero, The 11th Annual International fib
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	Symposium, London, Velika Britanija, 22.-24.06.2009., London: Busines Design Centre, 2009., pp. 1-7. 7. Grandić, D.; Bjegović, D.; Serdar, M.: "Chloride threshold for different levels of reinforcement corrosion propagation", Kovler, K. (ur.), Concrete Durability and Service Life Planning, 2nd International RILEM Workshop, 2nd International RILEM Workshop, Haifa, Izrael, 07.-09.09.2009., Bagneux, Francuska: RILEM, 2009., pp. 416-422 8. Grandić, D.; Bjegović, D.; Zorislav, S.: „Grandić, D.; Bjegović, D.; Zorislav, S.: „Experimental stress-strain diagram of corroded reinforcing-steel bars“, Građevinar, 61 (2009), 2, Zagreb, pp. 157-167. (in Croatian) 9. Grandić, D.; Bjegović, D.: "Reinforcement Corrosion Rate in Cracked Areas of RC-Members Subjected to Sustained Load", Andrade, C.; Mancini, G. (ur.), Modelling of Corroding Concrete Structures - Proceedings of the Joint fib-RILEM Workshop held in Madrid, Spain, November 2010, Heidelberg, Njemačka: Springer, 2011., pp. 65-83. 10. Grandić, D.; Bjegović, D.; Štimac Grandić, I.: "Deflection of reinforced concrete beams simultaneously subjected to sustained load and reinforcement corrosion", Giuliani, G. C. (ur.), Congress Papers (CD), Paper No 177, Structural Engineers World Congress 2011, Como, Italija, 04-06.04.2011., Milano, Italija: SEWC, 2011., pp. 1-12. 11. Vidović, D.; Grandić, D.; Šćulac, P.: "Effective Stiffness for Structural Analysis of Buildings in Earthquake", Knežević, M.; Šćepanović, B. (ur.), Zbornik radova, Četvrti internacionalni naučno-stručni skup "Građevinarstvo - nauka i praksa - GNP 2012., Žabljak, Crna Gora, 20-24.02.2012: Univerzitet Crne Gore, Građevinski fakultet, pp. 811-818. 12. Grandić, D.; Šćulac, P.; Štimac Grandić, I.: "Shear resistance of reinforced concrete beams in dependence on concrete strength in compressive struts", Tehnički vjesnik : znanstveno-stručni časopis tehničkih fakulteta Sveučilišta u Osijeku, 22 (2015) 4, pp. 925-934. 13. Grandić, D.; Šćulac, P.; Štimac Grandić, I.: "Shear resistance of reinforced concrete beams in dependence on concrete strength in compressive struts", Tehnički vjesnik : znanstveno-stručni časopis tehničkih fakulteta Sveučilišta u Osijeku, 22 (2015) 4, pp. 925-934. 14. Grandić, Davor ; Štimac Grandić, Ivana: Pitting factor in use of galvanostatic pulse method for measuring the corrosion rate of reinforcement in concrete // Machines, Technologies, Materials, 15 (2021), 7; 259-263 15. Krolo, P. ; Grandić, D.: Hysteresis Envelope Model of Double Extended End-Plate Bolted Beam-to-Column Joint // Buildings, 11 (2021), 11; 517, 22. doi: 10.3390/buildings11110517 16. Palijan, Ivan; Grandić, Davor; Štimac Grandić, Ivana; Krolo, Paulina; Lukačević, Lazar; Bakran, Antonio: Testing of Innovative Composite Wall/Ceiling Panel // International Scientific Journal Industry 4.0, VIII (2023), 5; 155-158 17. Smolčić, Željko; Grandić, Davor; Šćulac, Paulo: Dimenzioniranje armiranobetonskih pravokutnih presjeka prema drugoj generaciji Eurokoda // Građevinar : časopis Hrvatskog saveza građevinskih inženjera, 75 (2023), 12; 1203-1216. doi: 10.14256/JCE.3855.2023 18. Palijan, Ivan; Krolo, Paulina; Štimac Grandić, Ivana; Grandić, Davor: Testing of the structural composite panels to determine the design resistance models // Machines, Technologies, Materials, 18 (2024), 5; 148-152 19. Grandić, Davor; Štimac Grandić, Ivana; Šćulac, Paulo: Assessment of Mechanical Properties of Corroded Reinforcement in Chloride Environment Based on Corrosion Rate Monitoring // Civil engineering journal (Tehran), 10 (2024), 11; 3473-3492. doi: 10.28991/cej-2024-010-11-02
Leader of the following research projects	Project Prefabricated buildings of almost zero energy produced in an industrial way (European Commission - European Regional Development Fund leader at institution: D. Grandić) 1. 8. 2021.- 31. 12. 2023. https://crosis.hr/projekti/projekt/5491

Participant in the following research projects	1. Research project "Modelling of durability of building materials and elements", (No. ZNV project, 0082209, project leader: Prof. Dubravka Bjegović), from 2002 to 2005) 2. Research project "Development of new materials and systems for protection of concrete structures" (project number 082-0822161-2159, project leader: Prof. Dubravka Bjegović), from 2007 to 2012) 3. Joint Croatian-Slovenian research project "Nonlinear numerical modelling of spatial reinforced concrete frames under the influence of steel reinforcement corrosion" (project number 533-06-09-0002, project leader: Prof. Gordan, since 1 January 2009 to 31 December 2010) 4. Research project "Failure mechanisms and behaviour models of innovative connections in timber structures" (project number 114-0000000-3253, project leader: Prof. Adriana Bjelanović), from 2008 to 2010) 5. Scientific research Damage assessment and strengthening of building structures (University of Rijeka, NO 13.05.1.1.01, leader N. Bičanić/I. Štimac Grandić) 2013.–2018. https://croris.hr/projekti/projekt/6555 6. Scientific research Improvement of design models for condition assessment of structures (University of Rijeka; uniri-tehnic-18-127, leader I. Štimac Grandić) 2018. - 2023. godine https://croris.hr/projekti/projekt/5461 7. Assessment of masonry arches and vaults 2020-2022/ University of Rijeka (leadre: P. Ščulac) 8. UNIRI projekti 2023 Adjustment of the methodology for assessing the seismic resistance of existing masonry buildings in the Kvarner Littoral (uniri-iskusni-tehnic-23-198 – University of Rijeka, leader: A. Bjelanović) 2024. do danas https://www.croris.hr/projekti/projekt/10158
Supervision of PhD theses	3
Examination of PhD theses	4