

<b>Name of teacher:</b>	Davor Grandić
<b>Employed at:</b> <b>Since:</b>	Faculty of Civil Engineering, University of Rijeka 11 December 2005 -
<b>Title:</b> <b>Since:</b> <b>In:</b>	Professor 2020 structural engineering, civil engineering, technical science
<b>e-mail adresa, web stranica</b>	<a href="mailto:davor.grandic@gradri.hr">davor.grandic@gradri.hr</a> ; <a href="http://www.gradri.uniri.hr/?rijeka=staff,85">http://www.gradri.uniri.hr/?rijeka=staff,85</a>
<b>Poznavanje stranih jezika:</b>	English, German

<b>Qualifications</b>	<ul style="list-style-type: none"> <li>- <b>Date of birth, nationality:</b> 29 January 1967 in Zagreb, Croatian</li> <li>- <b>First degree obtained at:</b> Faculty of Civil Engineering, University of Zagreb</li> <li>- <b>Master degree obtained at:</b> Faculty of Civil Engineering, University of Zagreb</li> <li>- <b>Ph.D. degree obtained at:</b> Faculty of Civil Engineering, University of Zagreb</li> <li>- <b>additional education:</b> -</li> <li>- <b>previous employments:</b> Civil Engineering Institute in Zagreb, (from 1 Sept. 1995 to 10 Dec. 2005)</li> </ul>
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<b>List of papers published in scientific journals</b>	<ol style="list-style-type: none"> <li>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)</li> <li>2. Grandić, D.; Sorić, Z.: „Testing semi-prefabricated floors made of prestressed brick elements“, Građevinar, 54 (2002), 12, Zagreb, pp. 705-706. (in Croatian)</li> <li>3. Šimunić, Ž.; Grandić, D.: „Seismic insulation of buildings with elastomeric bearings“, Građevinar, 55 (2003), 2, Zagreb, pp. 71-78. (in Croatian)</li> <li>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)</li> <li>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)</li> <li>6. Mrak, P.; Grandić, D.; Meštrović, D.: „Reinforced-concrete walls in earthquake-prone areas“, Građevinar, 32 (2010), 6, Zagreb, pp. 517-527. (in Croatian)</li> <li>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.</li> <li>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)</li> <li>9. Smolčić, Ž.; Grandić, D.: "Interaction diagrams for reinforced concrete circular cross-section ", Građevinar, 64 (2012) 1, pp. 23-31.</li> <li>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.</li> <li>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)</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ol>
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<p><b>List of publications which serve as a proof of teaching qualifications</b></p>	<ol style="list-style-type: none"> <li>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)</li> <li>2. Šimunić, Ž.; Grandić, D.: „Seismic insulation of buildings with elastomeric bearings“, Građevinar, 55 (2003), 2, Zagreb, pp. 71-78. (in Croatian)</li> <li>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.</li> <li>4. Meštrović, D.; Grandić, D.: "Aseismic strengthening of masonry buildings", Radić, J.; Rajčić, V.; Žarnić, R. (ur.), Heritage Protection - Construction Aspects, International Conference Heritage Protection, Dubrovnik 14-17.10.2006., Zagreb: SECON HDGK, 2006., pp. 305-312.</li> <li>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.</li> <li>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 Symposium, London, Velika Britanija, 22.-24.06.2009., London: Business Design Centre, 2009., pp. 1-7.</li> <li>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</li> <li>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)</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ol>
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<p><b>Leader of the following research projects</b></p>	<p>-</p>
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<p><b>Participant in the following research projects</b></p>	<ol style="list-style-type: none"> <li>1. Research project "Modelling of durability of building materials and elements", (No. ZNV project, 00822209, project leader: Prof. Dubravka Bjegović), from 2002 to 2005)</li> <li>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)</li> <li>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)</li> <li>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)</li> </ol>
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<b>Supervision of MSc theses</b>	-
<b>Supervision of PhD theses</b>	-
<b>Examination of MSc theses</b>	5
<b>Examination of PhD theses</b>	-