

<b>Name of teacher:</b>	<b>Paulo Šćulac</b>
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<b>Employed at:</b> <b>Since:</b>	University of Rijeka, Faculty of Civil Engineering 1.10.2007.
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<b>Academic rank:</b> <b>Since:</b> <b>In:</b>	Assistant professor 7.4.2016 Civil Engineering, Structural Engineering
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<b>e-mail address, web page</b>	<a href="mailto:paulo.sculac@uniri.hr">paulo.sculac@uniri.hr</a> , <a href="https://portal.uniri.hr/Portfelj/Details/1671">https://portal.uniri.hr/Portfelj/Details/1671</a>
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<b>Knowledge of foreign languages:</b>	Active: English; Passive: Italian, German
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<b>Qualifications</b>	<ul style="list-style-type: none"> <li>- <b>date of birth, nationality:</b> 29.06.1984. Croatian nationality</li> <li>- <b>First degree obtained at:</b> University of Rijeka, Faculty of Civil Engineering, 2007.</li> <li>- <b>Ph.D. degree obtained at:</b> Univers. of Rijeka, Faculty of Civil Engineering, 2014.</li> <li>- <b>additional education:</b></li> <li>- <b>previous employments:</b></li> </ul>
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<b>List of papers published in scientific journals</b>	<ul style="list-style-type: none"> <li>- Grandić, D., Štimac Grandić, I., Šćulac, P.: Assessment of mechanical properties of corroded reinforcement in chloride environment based on corrosion rate monitoring, Civil Engineering Journal, 10 (2024), 11, 3473-3492.</li> <li>- Štimac Grandić, I., Šćulac, P., Grandić, D., Vodopija, I.: The accessible design of pedestrian bridges, Sustainability, 16 (2024), 3, 1063, 17p.</li> <li>- Šćulac, P., Čeh, N.: Experimental test on a pointed arch model monitored by contactless optical system, International Journal of Masonry Research and Innovation, 9 (2024), 3, 252-267.</li> <li>- Smolčić, Ž., Grandić, D., Šćulac, P.: Design of reinforced concrete rectangular cross-sections according to the second generation of Eurocode, Građevinar: Journal of the Croatian Association of Civil Engineers, 75 (2023), 12, 1203-1216.</li> <li>- Grandić, D., Šćulac, P., Štimac Grandić, I.: Shear resistance of reinforced concrete beams in dependence on concrete strength in compressive struts, Tehnički vjesnik – Technical Gazette, 22 (2015), 4, 925-934.</li> <li>- Šćulac, P., Jelenić, G., Škec, L.: Kinematics of layered reinforced-concrete planar beam finite elements with embedded transversal cracking, International Journal of Solids and Structures, 51 (2014), 1, 74-92.</li> </ul>
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<b>List of publications which serve as a proof of teaching qualifications</b>	<ul style="list-style-type: none"> <li>- Šćulac, P., Jelenić, G., Škec, L.: Kinematics of layered reinforced-concrete planar beam finite elements with embedded transversal cracking, International Journal of Solids and Structures, 51 (2014), 1, 74-92.</li> <li>- Grandić, D., Šćulac, P., Štimac Grandić, I.: Shear resistance of reinforced concrete beams in dependence on concrete strength in compressive struts, Tehnički vjesnik – Technical Gazette, 22 (2015), 4, 925-934.</li> <li>- Jelenić, G., Šćulac, P., Grandić, D.: A simple reinforced-concrete beam model accounting for the effect of tension stiffening, Proceedings of 7th International Congress of Croatian Society of Mechanics – ICCSM, ed.: Virag, Z., Kozmar, H., Smojver, I., Zagreb: Croatian Society of Mechanics, 2012.</li> <li>- Šćulac, P., Jelenić, G.: Modelling cracking in reinforced-concrete beams using beam finite elements with embedded discontinuity, Computational Modelling of</li> </ul>
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	<p>Concrete Structures - Proceedings of EURO-C 2014, ed.: Bićanić, N., Mang, H., Meschke, G., de Borst, R., London: Taylor and Francis Group, 2014., 569-578.</p> <p>- Grandić, D., Šćulac, P., Brnić, D., Višnjić, M.: Pushover analysis of a reinforced concrete two-bay frame: concentrated vs distributed plasticity model, 14th Central European Congress on Concrete Engineering Proceedings, ed.: Nenadállová, Š.; Švejda Johová, P., Czech Concrete Society CBS, 2024. 221-229.</p> <p>- Šćulac, P., Grandić, D., Palinić, N.: First reinforced concrete building in Rijeka Port</p> <p>- Ferenc Pfaff's warehouse No. 17, 12th International conference on structural analysis of historical constructions SAHC 2021, Barcelona: International Centre for Numerical Methods in Engineering (CIMNE), 2021. 257-268.</p> <p>- Šćulac, P., Grandić, D., Štimac Grandić, I.: Degradation of tension stiffening due to corrosion - an experimental study on cracked specimens, Proceedings of the 2nd International Conference CoMS 2020/21, Ljubljana: Slovenian National Building and Civil Engineering Institute, 2020. 287-294.</p>
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<b>Leader of the following research projects</b>	<p>- "Assessment of masonry arches and vaults (ZIP-UNIRI-1500-3-20)", 11.11.2020. - 11.11.2022., University of Rijeka.</p>
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<b>Participant in the following research projects</b>	<p>- "Improved accuracy in non-linear beam elements with finite 3D rotations (114-0000000-3025)", project leader prof.dr.sc. Gordan Jelenić, 1.10. 2007. - 31.12.2009., Ministry of Science, Education and Sports.</p> <p>- "Nelinearno numeričko modeliranje prostornih armiranobetonskih okvira pod utjecajem korozije armature", project leader prof.dr.sc. Gordan Jelenić, 1.1.2009. - 31.12.2010., Bilateral Croatian-Slovenian scientific project.</p> <p>- "Configuration-dependent Approximation in Non-linear Finite-element Analysis of Structures (IP-11-2013-1631)", project leader prof.dr.sc. Gordan Jelenić, 1.9.2014. - 31.08.2018., Croatian Science Foundation.</p> <p>- "Assessment of damage and strengthening of civil engineering structures (13.05.1.1.01)", project leader prof. dr.sc. Nenad Bićanić and prof.dr.sc. Ivana Štimac Grandić 01.01.2014. - 31.12.2018., University of Rijeka.</p> <p>- "Prefabricated buildings of almost zero energy produced in an industrial way (KK.01.2.1.02.0046)", project leader prof.dr.sc. Davor Grandić, 01.08.2020. - 31.12.2023., European Regional Development Fund.</p> <p>- "Improvement of design models for condition assessment of structures (uniri-tehnic-18-127)", project leader prof.dr.sc. Ivana Štimac Grandić, 03.12.2018. - 31.12.2021., University of Rijeka.</p> <p>- "Adjustment of the methodology for assessing the seismic resistance of existing masonry buildings in the Kvarner Littoral (uniri-iskusni-tehnic-23-198)", project leader prof.dr.sc. Adriana Bjelanović, 15.04.2024. - 14.04.2025., University of Rijeka.</p>
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<b>Supervision of PhD theses</b>	-
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<b>Examination of PhD theses</b>	-
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