Name of teacher:	Ivica Kožar

Employed at: **Since:**	University of Rijeka, Faculty of Civil Engineering May 1985

Scientific / teaching title: **Last election date:** **Scientific area and branch:**	**Full professor** **October 2001** **technical sciences, civil engineering, modeling**

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Knowledge of foreign languages:	English, German, Italian

Qualifications	**- date of birth, nationality: 22.08.1959. Opatija, Croatia** **- First degree obtained at: GF Rijeka, 1983.** **- Ph.D. degree obtained at: GF Zagreb, 11.12.1991 "Stability analysis of plates and shells of general shape"** **- additional education: 1) postdoctoral specialization (Swiss government scholarship) from 15.01.1994. to 15.07.1994. at the Ecole Polytechnique Federale de Lausanne, DGC, LSC, CH-1015 Lausanne, Suisse- field of work: continuum mechanics with large displacements and large rotations; 2) visiting scientist (at the invitation of the German side) from 01.10.1994. to 31.03.1995. and from 1.01.1996. to 31.03.1996. Universitat Stuttgart, Institut fur Werkstoffe im Bauwesen, Pfaffenwaldring 4, 70550 Stuttgart, Deutschland, - field of work: microplane theory of concrete**

List of papers published in scientific journals	➢ Kožar, I. and Ibrahimbegović, A.: The Finite Element Formulation of a Finite Rotation Solid Element, Finite Elements in Analysis and Design (0168-874X), Nostran Van Holland, 1995 (20) p.101-126 ➢ Ibrahimbegović, A., Kožar, I. and Frey, F.: Computational Aspects of Vector-like Parameterization of Three-Dimensional Finite Rotations, International Journal for Numerical Methods in Engineering (0029-5981), 1995 (38) p.1-15 ➢ Ibrahimbegović, A. and Kožar, I.: Nonlinear Wilson's Brick Element for Finite Elastic Deformation of Three-Dimensional Solids, Communications in Numerical Methods in Engineering (0748-8025), 1995 (11) p.655-664 ➢ Kožar, Ivica, Novaković, M., Pavlovec, E.: Analysis of Plate on Elastic Foundation using 8-node Serendipity Element, Int.J.Engineering Modelling, (8) , No.3-4, 1995, ISSN 1330 1365, p.65-70 ➢ Ožbolt, Joško, Y.-J. Li and Kožar, Ivica: Microplane Model for Concrete with Relaxed Kinematic Constraint, International Journal of Solids and Structures, 2001(38/16), p. 2683-2711 ➢ Štimac, I., Meštrović, D., Kožar, I.: Analysis of bridge structures excited by moveable load (in Croatian), GRAĐEVINAR (0350-2465) 56 (2004), 6; 347-353 ➢ Ožbolt, J., Kožar, I., Eligehausen, R., and Periškić, G., (2005). "Instationäres 3D Thermo-mechanisches Modell für Beton," Beton und Stahlbetonbau, (0005-9900) 100 (2005),1; 39-51.

List of publications which serve as a proof of teaching qualifications	Independently and fully developed Software: ➢ Program for linear and dynamic calculation of plane structures by finite element method ➢ Program for linear and dynamic calculation of axially symmetric shells ➢ Program for nonlinear calculation of spatial shells ➢ Program for nonlinear calculation of spatial concrete structures (in cooperation with IWB Uni. Stuttgart) ➢ Program for dimensioning of reinforced concrete structures ➢ Program for calculating the building physics of high-rise buildings ➢ Program for estimating the sound resistance of buildings ➢ Program for calculation and drawing of longitudinal profiles of water supply and sewerage ➢ Program for dynamic analysis of 2D structures excited by the passage of vehicles (http://www.gradri.hr/~modeliranje)

	➢ Program for 3D non-stationary analysis of heat distribution for the Institut für Werkstoffe im Bauwesen Universität Stuttgart

Leader of the following research projects	➢ Rsearch project with Germany, Instütut für Werkstoffe im Bauwesen, Universität Stuttgart: "Erstellung eines 3D FE Programs für die Ermittlung der Temperatur- und Feuchteverteilung", 2003 ➢ scientific project with Slovenia: "Modeling the occurrence and spread of damage in engineering materials", 1998-2000, 2001-2003 ➢ research project with the United Kingdom (ALIS): "Investigation of Damage Evolution in Continuum Modeling of Quasibrittle Materials", 1998-2000 ➢ technological project TP-02 / 0114-02: "Influence of moving load on structures" ➢ scientific project 0114002: "Numerical modeling of quasi-brittle materials", 2002-2004 ➢ scientific project 114102: "Numerical analysis of quasi-brittle materials", 1997-2001. ➢ scientific project 2-11-449: "Dynamic analysis of laminated boards under impact load", 1993-1996. ➢ Flexible long structures: nonlinear modeling with visualization (scientific project MZOS no. 114-0982562-1460)

Participant in the following research projects	➢ Numerical 3D chemo-hygro-thermo-mechanical model of concrete (scientific project MZOS no. 114-0000000-3145; project leader Joško Ožbolt)

Supervision of MSc theses	1

Supervision of PhD theses	0

Examination of MSc theses	5

Examination of PhD theses	1