HOW DO THE ACADEMICS IN CROATIA VALUE TEACHING COMPETENCIES?

Marko Turk, PhD
Professor Jasminka Ledić, PhD

Department of Education
Faculty of Humanities and Social Sciences
University of Rijeka, Croatia

This research is a part of a research project “Academic Profession Competencies Profile: Between new Requirements and Possibilities” (APROFRAME), supported by Croatian Science Foundation.
Presentation plan

1. (Broader) research context
2. Changes in the academic profession, academics’ roles and competencies
3. Research methodology
4. Research results and discussion
5. Summary and conclusions
(Broader) research context

APROFRAME project/ research; **Academic Profession Competencies Profile: Between new Requirements and Possibilities**

What are the competencies academics need at the beginning of their senior academic career?
Changes in the academic profession, academics’ roles and competencies

- Changes in the academic profession (Enders, 1999; Honan, Teferra, 2001; Kovač, Ledić and Rafajac, 2002; Altbach, 2006; Kogan and Teichler, 2007; Cummings, 2008; Pedro, 2009; Scott, 2009; Ledić, 2012; Turk i Ledić, 2014; Turk 2015a, 2015b; Turk i Ledić, 2016)

- Appearance of new and restructuring of existing jobs; Meeting new demands and performing new activities (Musselin, 2007)

- Demands for new, and redefining the existing competencies

- Teaching and research - part of a broader range of activities

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QUANTITATIVE RESEARCH

Examine the attitudes of Croatian academics on the importance and mastery of academic profession competencies for successful accomplishment of academic tasks at the beginning of their senior academic career.
Research methodology (2/2)

QUANTITATIVE RESEARCH

Variables

- Research field
- Organizational form of the university
- Academic position
- Sex
- Age

Sample

- 1130 research participants
- 7 Croatian universities

Procedures and instruments for collecting data

- On-line survey
- Survey questionnaire
- 45 items - competencies of the academic profession
- Likert scale

Data processing

- Statistical Package for the Social Sciences (SPSS, 20.0.)
- univariate, bivariate and multivariate statistics
- Statistical significance tests, post-hoc tests

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University of Rijeka
7 Research results and discussion (1/8)

- Evaluation of importance → most important and least important

**MOST IMPORTANT**
- General IT literacy (Windows, Microsoft Office, Internet, e-mail) (M=4.71, SD=0.53),
- Oral and written communication in mother tongue (M=4.68, SD=0.56),
- Planning and carrying out teaching (M=4.42, SD=0.75),
- Familiarity with the basic principles of scientific writing and publishing (M=4.41, SD=0.73),
- Using efficient strategies of searching through scientific and profession-related literature (M=4.35, SD=0.73).

**LEAST IMPORTANT**
- Having basic knowledge about intellectual ownership (M=3.09, SD=1.11),
- Participating in public discussions of general social importance from the professional perspective (M=3.07, SD=1.12),
- Managing financial resources of the institution/department/course (M=3.04, SD=1.28),
- Cooperation with the civil sector (M=2.94, SD=1.16),
- Adjustment of the teaching process to students with special needs (M=2.89, SD=1.19).

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Research results and discussion (2/8)

- Factor analysis results → 5 groups/ factors of academic profession competencies

**TEACHING COMPETENCIES**

- Planning and carrying out teaching
- Applying various methods of teaching harmonized with the learning results
- Setting clear objectives and achieving results in the process of teaching and learning
- Understanding and applying theories on which learning and teaching processes are based
- Applying various procedures of assessment and evaluation of students’ success harmonized with the learning results
- Creating an environment that will encourage students to learn
- Applying active learning techniques in the teaching process
- Educating students to be socially responsible and active citizens
- Familiarizing oneself with negotiation and conflict resolution principles
- Familiarizing oneself with ethical principles in teaching and research
- Presentation skills
- Implementing research findings in teaching

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Research results and discussion (3/8)

**THIRD MISSION COMPETENCIES**

- Encouraging students to participate in volunteer programs and programs that contribute to the development of the community
- Cooperating with the civil sector
- Participating in the volunteer and philanthropic programs and other activities in the community
- Participating in public discussions of general social importance from the professional perspective
- Adjusting the teaching process to students with special needs
- Cooperating with the public sector and the economy (institutions and companies from the related field)

**RESEARCH MANAGEMENT COMPETENCIES**

- Implementing projects which are significant in terms of community’s needs
- Familiarizing oneself with program/project management (writing, applying for and managing programs/projects)
- Managing financial resources of the institution/department/course
- Leading teams and individuals
- Familiarizing oneself with financing opportunities for projects in the field of one’s own research interest
- Familiarizing oneself with the principles of strategic planning
- Creating and maintaining (international) research networks

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Research results and discussion (4/8)

COMPETENCIES FOR ACADEMIC ADVISING AND INNOVATION

- Monitoring and advising junior academic colleagues in relation to teaching work
- Introducing changes into syllabus
- Monitoring and advising junior academic colleagues with regard to research work
- Implementing review procedures in one’s own research field
- Creating teaching syllabus
- Introducing innovations and changes in the work of the institution/department/course

RESEARCH DEVELOPMENT COMPETENCIES

- Familiarizing oneself with the basic principles of academic writing and publishing
- Using efficient strategies of critical assessment and literature analysis
- Keeping up-to-date with professional development and committing to constant personal growth with regard to basic academic activities
- Working in an interdisciplinary environment

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Research results and discussion (5/8)

- Research field → perception of importance

**COMPETENCIES VARIABLES**

- Teaching competencies
- Third mission competencies
- Research development competencies

**RESEARCH PARTICIPANTS**

- Humanities and social sciences
  - Arts

**RESEARCH PARTICIPANTS**

- Natural, technical and biotechnical sciences
  - Biomedicine

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Research results and discussion (6/8)

- Senior academics/ junior academics → perception of importance

COMPETENCIES VARIABLES

Teaching competencies;
Scientific management competencies; Third mission competencies; Advisory and innovatory competencies; Research development competencies

RESEARCH PARTICIPANTS

Junior academics

Senior academics

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Research results and discussion (7/8)

- Age → perception of importance

**COMPETENCIES VARIABLES**

- Teaching competencies;
- Scientific management competencies;
- Third mission competencies;
- Competencies for academic advising and innovation;
- Research development competencies

**RESEARCH PARTICIPANTS**

- Age 24 – 29
- Age 30 – 39

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- Age 40 – 49
- Age 50 – 59
- Age 60 >

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Research results and discussion (8/8)

- Sex → perception of importance

**COMPETENCIES VARIABLES**

*Teaching competencies;*  
Scientific management competencies; Third mission competencies; Competencies for academic advising and innovation; Research development competencies

**RESEARCH PARTICIPANTS**

Women

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**RESEARCH PARTICIPANTS**

Men

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academics from humanities, social sciences and arts assign statistically significantly higher importance to teaching competencies in comparison with the academics from natural, technical and biotechnical sciences and biomedicine

junior academics assign statistically significantly lower importance to teaching competencies in comparison with the senior academics

research participants with less working experience (junior researchers) assign statistically significantly lower importance to teaching competencies in comparison with the senior ones

women from the academic comunity assign statistically significantly higher importance to teaching competencies in comparison with men
Summary and conclusions (2/2)

Professional socialization of junior researchers with the emphasis on the disciplinary differences regarding their attitudes towards teaching.
Thank you for your attention

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