Higher School Teacher`s Competences: Methodology and Diagnostics

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Abstract. The article dwells on methodological foundations of higher school lecturer’s researching competences as well as developing diagnostic tools to define tendencies taking place in professional activity of a lecturer in modern conditions. The article also signifies lecturer’s main competence spheres (academic, professional and pedagogical, social and personality). Materials presented in the paper will enable the diagnostic process of modern lecturer’s competence development assessment in Ukraine, Poland, Czech Republic and Slovakia within the framework of realization of international scientific project. The questionnaire for students and university lecturers is also presented.

Keywords: competence, methodology, diagnostics, higher school lecturer, measurements, lecturer’s professional activity spheres.

Relevance of the Topic. The fast processes of development of European countries happening on the global, as well as regional and local levels, social, economic, technologic processes, constant transformations in the sphere of higher education provoke a number of contradictory phenomena and processes. From one hand, there are increasing demands to higher school lecturer’s activity, from the other hand - instability, lecturer’s uncertainty in future; being not ready to information «tsunami», critical perception of information, integral approach to analyzing phenomena and processes.

In this context, a great importance has in time diagnostics of higher school lecturer’s perception level of changes, happening in his professional area, as well as finding out appropriate transformations, predicting positive and negative tendencies. The project "Higher School Lecturer’s Competences in the Epoch of Changes" funded by Vyshehrad Fund aims to solve the abovementioned problems. Scholars of four countries (Ukraine, Poland, Czech Republic and Slovakia) participate in the research.

Analyzing changes, we should mention that world becomes more globalized in last centuries. Globalization made possible its openness as a smart-system (connectable landscape) in its different aspects, first and foremost in education. A number of educated people grow, as well as an amount of time spent on education; new life values form in those who educate: adaptability, flexibility, life sustainability, understanding key challenges of the time; active implementation of new technologies in the sphere and others. The European Commission paper on «Modernization of Higher Education in Europe: Academic Staff 2017» [5] dwells on variable processes taking place in systems of higher education in European countries. A great importance is given on widening of higher education informational space by implementing ICT, resource provision; modernization and search for common approaches to its quality increase, making the problem of integration of educational systems of different countries topical; changing regulatory provision and mechanisms of higher education management; demographic situation etc. In the context of these problems, social importance of higher school lecturer’s activity grows, doing significant creative, intellectual, spiritual mission of future specialist preparation for sustainable society development. Future highly-qualified, competitive specialist preparation depends on the quality of teaching of educational courses at higher educational establishments. However, in the EU countries there is no centralized system of assessment of versatile higher school lecturer’s activities. Thus, there is necessity to standardize marks a lecturer as the main subject of the educational process, as well as to develop appropriate standardized approaches, helping to integrate educational systems of different countries.

Education quality indicator, introduced by structural reform of higher education on the European level (The Bologna Process), is a competence. This complex system formation, comprising professional knowledge, skills, methods and techniques of professional activity, a number of settings and orientations, acquired experience allowing a lecturer to achieve high educational results. Thus, quality increase of higher education is directly connected to staff development, namely competences of university teaching staff. This problem is one of the most important social and economic tasks. Its solution will result into increase of manpower in every country.

The Analysis of the Research. The problem of defining of the nature of pedagogue’s and higher school lecturer’s competences is a subject scientific research of many scholars. Analyzing this problem, researchers state that, many professional functions, performed by a lecturer, enable consideration of his activity as a non-linear system, capable of self-organization and development on the basis of awareness of his own image and professional identity [6].

To define the content of higher school lecturer’s competences, we analyzed results of the project DeSeCo, carried out by researchers in the context of OECD. Researchers summarized results and conclusions of 3 projects: the Cross-Curricular Competencies Project, International Adult Literacy Survey (IALS) and the Human Capital Project. Partially materials of the International Project on the Adult Literacy and Lifeskills (ALL), as well as the International Association for the Evaluation of Educational Achievement (IEA) [1] were studied. The content of education was re-interpreted and presented as a scope of competences. The main groups of competences is defined as an ability to use instruments of communication with the environment (language, knowledge, ICT etc.); interact with people in diverse groups; act independently (autonomous).

It is worth mentioning there are different approaches to defining and classifying competences in Pedagogy. Famous elaboration of pedagogue`s competences, made by Ukrainian and foreign scholars: I.Zymyuna, P. Light, V.Luhovyi, D.Miller, K.Rogers, O.Pometun, O.Savchenko, A.Khutorsky, M.Tsvenenher and others). In elaboration of these scholars there is no common approach to classifying competences.

The Purpose Formulation of the Article. The aim of the paper is to define methodological foundations of developing diagnostic tools to study competences of a modern higher school lecturer in four European countries: Ukraine, Poland, Czech Republic and Slovakia, enabling identification of development tendencies of these competences in the context of global and local changes in educational sphere.

The Main Material. Complexity of measuring competences consists in the fact that lecturer’s activity is a multispect process. The lecturer performs research, educational, project, organizational, evaluating, innovative and other functions. Some scholars study the content of discrete competences according to abovementioned functions. We find
this approach not productive and quite difficult for quantita-
tive analysis. Therefore, the foundation of development of
diagnostic tools to identify modern changes in higher school
lecturer’s competences was made by materials of Project
TUNING [7], as far as formation of new ideas is character-
ized not only by exceeding the limits of something perceived
before, but also by becoming a part of already formed system
of knowledge [4, p.37].

So, according to the Project TUNING, scholars’ opinions
on the structure of general competences (instrumental, inter-
personal and system) university student have to possess were
set as foundation. This statement gave certain guidelines to
conclude the following: «anything, a student needs, a lecturer
must have». That is why, defined competence categories in
the structure of a general competence were takes as basics
and studied in three professional dimensions of higher school
lecturer’s activity: academic, professional and pedagogical,
and social and personality. The choice of these lecturer’s
competence spheres meets the following general criteria:
universality as an important requirement to all lecturers,
performing educational activity; eligibility to the develop-
ment of educational process of higher educational establish-
ment; significance to all lecturers of different universities
in European countries. Identical views we can also find in
works of Ukrainian scholar S.Maschy, who has grouped
professional competences according to the main professional
activity categories [3]. So, mentioned methodological ap-
proach allowed to take into consideration the content of
general and partially subject competences, referred in the
Project TUNING, as well as summarize different activities
and functions of a lecturer defining his competences.

Spheres of higher school lecturer’s professional activity
(academic, professional and pedagogical, and social and
personality reflect its diversity and present certain competence
plurality, allowing to study competences as a managed
and self-manages system.

Using Venn diagram we can further outline all possible
interconnections of these subsets [8].

Basing on these methodological backgrounds, the follow-
ting tasks of diagnostics are formulated:
1. Develop special tools for impartial assessment of lec-
turer’s competence development at universities of four coun-
tries: Ukraine, Poland, Czech Republic and Slovakia.
2. Identify contemporary content of higher school lecturer’s
competences, level of diversity and changes in four European
countries: Ukraine, Poland, Czech Republic and Slovakia.
3. Define development tendencies of lecturer’s compe-
tences and their dominance in professional activity and in
students’ marks.
4. Elicted results allow to start a joint international dis-
cussion of higher school lecturer’s competences at the Euro-
pean level between the project participants, at the level of
non-governmental public organizations, engaged in prob-
lems of higher education, and also at state level of branch
Ministries and departments.
5. Carried research can become a background for organi-
zation of an advanced training system of higher school lecturers
in participant countries, because competences are not constant
and develop through experience, studies and self-development.

The basis for the diagnostic development is a pheno-
menon of a mark as an ability of a person to determine the value
of ideas or statements. Not only lecturers but also students
were chosen as respondents of a diagnostic, because student
expectations towards lecturer’s activity is an important quali-
ty education indicator allowing determination of correspond-
ing correlation connections between diagnostic measurement
results in two groups.

Basic characteristics of developed diagnostics are the fol-
lowing:
- inclusion of subjects in the pedagogical system, process;
- presence of aims of pedagogical assessment;
- using appropriate techniques;
- simplicity of accomplishment;
- obtaining of real, efficient information;
- predictable character to evaluate the real condition and
  identify appropriate tendencies.

The principle approach to constructing the questionnaire
for lecturers and students was the same content in terms of
statement-characteristics, the personal dominance of which
has to be assessed by respondents. For this purpose, a four-
dimensional assessment scale has been developed: Yes (I
fully agree); more Yes than No; more No than Yes; No (I
completely disagree).

Below you can find a list of statements, underlying the
questionnaire.

<table>
<thead>
<tr>
<th>Professional and Pedagogical</th>
<th>Lecturer:</th>
<th>Yes</th>
<th>more Yes than No</th>
<th>more No than Yes</th>
<th>No</th>
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<tbody>
<tr>
<td>Constantly improves himself / herself, improves his / her intellectual and professional level</td>
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<tr>
<td>Introduces innovative learning technologies, including ICT</td>
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<td>Works with information in global networks based on its critical analysis</td>
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<tr>
<td>Uses various means of communication with students and colleagues, including ICT</td>
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<td>Uses fundamental knowledge in the educational process, the achievements of modern science, constantly updates the content of educational courses</td>
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<td>Creates an educational environment, that contributes to cognitive activity of students, research based learning</td>
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<tr>
<td>Creates distance learning courses</td>
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<td>Is able to use the technology of managing of students’ self-study</td>
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<td>Shows flexibility in professional activity, enterprising initiative</td>
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<td>Considers interactive coordination with students the most productive in the educational process, organizes group and collective project activities</td>
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<td>Is able to set and achieve the didactic goal according to SMART technology with students</td>
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<tr>
<td>Uses different technologies of monitoring educational outcomes, corrects them</td>
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<tr>
<td>Has a positive attitude to reforms and changes that take place in higher education</td>
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<tr>
<td>Is satisfied with the results of his professional activity</td>
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</tbody>
</table>

So, competences mentioned in the questionnaire are
grouped by lecturer’s main activity types and have integral
character. Further analysis of diagnostics results makes pos-
sible to identify common and different tendencies of higher
school lecturer’s competences development in the epoch of
changes in four European countries.
2.

<table>
<thead>
<tr>
<th>Social and personal</th>
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<tbody>
<tr>
<td>Understands the social significance and high responsibility of his professional activities</td>
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<tr>
<td>Has a high motivation to perform professional tasks</td>
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<tr>
<td>Provides leadership support for student youth, demonstrating a high level of general and professional culture</td>
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<td>Keeps to the rules of professional ethics with all subjects of the educational process</td>
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<td>Perceives the younger generation as a generation that has special values and needs</td>
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<td>Is open to communication, aspire to understanding and solving complex situations</td>
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<td>Can present and stand up for own ideas as well as take part in a dialogue and discussion</td>
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<td>Restrains negative emotions, overcomes bad mood</td>
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<td>Knows his civil rights and duties, can uphold them basing on valid laws</td>
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<td>Gives students real opportunities for developing self-management, supports youth initiatives</td>
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<td>Encourages tolerance to differences between people in multicultural environment</td>
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<td>Can come to a decision and take responsibility for success and failures in professional work</td>
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3.

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<tr>
<th>ACADEMIC</th>
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<tbody>
<tr>
<td>Is able to combine the activities of a teacher and a scientist, organizes student’s studying process basing on research</td>
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<tr>
<td>Is proficient in modern methodology and methodology of research in the field of higher education</td>
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<td>Organizes research groups on topical issues of science, participates in national and international projects</td>
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<td>Realizes the main forms of internationalization of higher education (students and teachers mobility, introducing foreign experience into practice, etc.)</td>
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<td>Publishes the results of scientific research in scienometric publications.</td>
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<tr>
<td>Involves students in scientific activities, manages a scientific club, an elective</td>
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<td>Presents the results of scientific activities to the international community</td>
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<tr>
<td>Is able to develop a diagnostic tool for the analysis of scientific data</td>
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<tr>
<td>Adhere to the standards of academic integrity</td>
</tr>
<tr>
<td>Is an expert in the relevant scientific field, conducts expert examinations, prepares reviews, has a scientific school</td>
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<tr>
<td>Promotes the results of their own research using an e-portfolio</td>
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</tbody>
</table>

Conclusions. Analysis of European documents on education and scholars’ research on pedagogue’s and higher school lecturer’s competences allowed to identify certain methodological ideas and logical lines, that became a foundation to develop an appropriate diagnostic tool. New level of understanding methodological approaches to the problem, made possible to analyze higher school lecturer’s competences in three professional dimensions of his work: academic, professional and pedagogical, social and personal. Tasks and basic characteristics of the diagnostics are determined; four-dimension scale of competence assessment is developed in the article. Arguments and developing of diagnostic tools to assess higher school lecturer’s competences allows to identify appropriate transformations, predict positive and negative tendencies, taking place within the scope of lecturer’s competences nowadays. Our generalizations and conclusions are a background data for realization of international project “Higher School Lecturer’s Competences in the Epoch of Changes” funded by Vyshehrad Fund and participating scholars from Ukraine, Czech Republic and Slovakia.

REFERENCES (TRANSLATED AND TRANSLITERATED)

8. Venn diagram / [Elektronnyy resurs]. – URL:http://ru.m.wikipedia.org/.

Компетенции преподавателя высшей школы: методология и диагностика

Л. Л. Хоружая

Аннотация. В статье рассматриваются методологические основы изучения компетенций преподавателя высшей школы, а также создания диагностического инструментария их изучения с целью определения тенденций, которые происходят в профессиональной деятельности преподавателя в современных условиях. Выделены его основные компетентностные сферы: академическая, профессионально-педагогическая, социальная и личностная. Представленные в статье материалы позволят провести диагностические процедуры оценки развития компетенций современных преподавателей в Украине, Польше, Чехии на Словацкой в рамках реализации международного научного проекта. Представлен также опросник для студентов и преподавателей университета.

Ключевые слова: компетенции, методология, диагностика, преподаватель высшей школы, измерения, сферы профессиональной деятельности преподавателя.

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