International Conference on Interactive Collaborative Learning

STRUCTURED ABSTRACT

IGIP/ICL CONFERENCE

E-Portfolio as a Component of the Information and Analytical System of Scientific Staff Training

CONTEXT

In the conditions of extremely dangerous human life picture of the world (pandemic COVID-19, martial law, etc.) the urgent task of science and education is to preserve values, adaptive support for scientists, and create effective conditions for remote communication with researchers, who perform the scientific research (asynchronous communications and online technologies by means of modern software and mobile applications).

PURPOSE OR GOAL

The aim of the research is to raise the issue of information analytics in the system of scientific training and to ensure the development of a new methodology for building information systems in this sector, which will ensure the integrity of the process of forming the intellectual potential. Here in particular the E-portfolio will enable the transformation of accumulated information into electronic form and facilitate the transition to the creation of fundamentally new types of information resources that can be combined into so-called digital collections (repositories, knowledge bases and etc.), which in the projection on the educational space are systems of digital scientific and educational resources, which, in turn, are components of the information-analytical system (IAS).

APPROACH

Scientific staff training is carried out in Higher Education Institutions (HEI), research institutions (SRI) in the vector of modernization of educational process. During the quarantine of the COVID-19 pandemic, it was temporarily switched to the remote control. Then there was an urgent need to use online tools for educational communications such as Zoom, Google Meet, Skype and etc. Control and evaluatio tific quality training scientific staff was solved in the mode of feedback by means of these electronic resources. Only when the martial law has practically made radical changes in the education system, and caused some failure in all areas of scientific activities has, E-portfolio become a reasonable and reasoned solution. For the development of E-portfolio as a component of the IAS of scientific staff training, methods have been used to determine its structural on the basis of systematic, competency-based and diagnostic approaches. Providing a dynamic basis that can change over time depends on the acquired knowledge and study of the experience of predecessors is taking into account the methodology of transdisciplinary. E-portfolio components can be combined on the basis of a technological approach into meaningful blocks – personal, motivational, practical, specific science-specific.

ACTUAL OR ANTICIPATED OUTCOMES

The authors emphasize the rationality of providing training of scientific personnel by means of an information-analytical system, in particular, present its effective component – e-portfolio. Ways of generalization and systematization of results of scientific activity according to certain criteria to science to metric and personal indicators characterizing the integrity of scientific activity are revealed. This allows a brief description of the components of an open scientific e-portfolio and transdisciplinary relationships of the process of its development in the context of conducting research in various fields.

CONCLUSIONS/RECOMMENDATIONS/SUMMARY

The authors are convinced that E-portfolio technology is an effective information and analytical tool for remote scientific training, including in martial law. It is stated that the E-portfolio helps to improve the quality of rational and adaptive performance of scientific tasks set by research rules and in the future will provide the methodological basis for the process of building an information-analytical system of scientific training in universities of Ukraine.

KEYWORDS

Information-Analytical System, E-Portfolio, Scientific Staff Training, Transdisciplinarity