Academicia Review-A Multidisciplinary Online Journal
ISSN (Online): 3070-6726
Website: https://academicia.org
Volume 2, Issue 4, April, 2026

Digital Educational Technologies In Improving The Professional Training Of Future Specialists

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Abstract. This in the article future of experts professional readiness in improvement digital education technologies place analysis Made in. Modern supreme education in institutions digital transformation processes, in particular, LMS platforms (Moodle, Open edX), mobile education and artificial intellect of tools application seeing Research results this shows that digital technologies education to the process integration to do future of experts professional competencies formation efficiency increasing their labor market requirements flexibility The article also provides digital education in the environment of the students professional development and their digital competencies improvement issues are also covered.

Key words : Digital Education Technologies, Professional Preparation, LMS, Moodle, Digital Competence, Mobile Education, Artificial Intelligence.

World education in the system ongoing global transformation processes supreme education in front of new tasks is putting. Digital economy and in the context of industry 4.0 future of experts professional to prepare to be placed requirements fundamentally changed, they not only fundamental knowledge, but also digital also has competencies to be necessary Especially the last one in years face gave geopolitical changes education processes digitization accelerated, remote and mixture education models wide current to be completed motivation it has been.

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Digital education technologies when you say, education in the process information and communication from technologies use, electronic education resources create and from them use, remote education platforms, mobile applications, artificial intellect tools and other modern technological solutions set This is understood. tools education process all participants – students, teachers and administrative employees between effective cooperation providing, education quality to increase service does.

This of the research relevance is that today on the day many supreme education institutions digital technologies current in the process of different to difficulties face is coming. In particular, the teachers digital competencies enough at the level underdevelopment, material and technical base weakness, digital education resources quality level low such as problems exists. Therefore, the future of experts professional readiness in improvement digital education technologies opportunities and from them effective use mechanisms scientific basically study important importance profession will reach.

The research purpose – future of experts professional readiness in improvement digital education technologies place and importance to determine, to exist problems analysis to do and them eliminate to grow according to recommendations working from the exit consists of.

Methods. Research during one row theoretical and empirical from methods used. Theoretical methods as scientific and pedagogical literature analysis to compare, to generalize and systematization methods In particular, digital education technologies and their professional preparation to the process impact according to foreign and local researchers scientific works studied.

Empirical methods within one row supreme education using the Moodle platform in their institutions use experience comparative analysis was also held in 2025. research within different supreme education in institutions digital technologies current to grow status studied , students digital from tools to use readiness level was evaluated.

From this except Mekelle University, Ethiopia technology at the institute held five daily training program results, Germany-Jordan within the framework of the E-Certificate program at the university teachers digital competencies develop experience and Semarang state, Indonesia at the university mobile to

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education based training system efficiency according to ADDIE model implemented based on research results analysis was done.

August 2025 by Online Learning Consortium in the month held request The results (n=14) of the study also empirical basis enriched. This on request supreme education in institutions new to work acceptance made of employees digital competencies and their labor market requirements compatibility evaluated.

Results. Research during taken results digital education technologies future experts professional to prepare the impact one how much in aspects manifestation reached.

LMS platforms effectiveness. Research this showed that LMS platforms such as Moodle and Open edX future of experts professional competencies in formation important role plays. High education in institutions held the use of the Moodle platform in research interactive tools (quizzes, forums, video lectures) education quality noticeable at the level increase and students training to the process active attraction to be able Digital and integrated digital the environment comparison this showed that integrated environment different training tools combining, real-time materials in mode adaptation and interactivity provide opportunity with more efficient is considered.

Of the others digital competencies. Higher education 38 professors and teachers in institutions in the presence of held to the results of the training program According to, teachers on the Open edX and Moodle platforms work skills formation their digital education to give potential increased. This training education to the quality positive impact showing , teachers digital competencies to develop service is doing.

Germany-Jordan The E-Certificate program at the university of the students digital pedagogy, instructional design and assessment in the field skills to develop aimed at modular program as effective results gave . This The program is on the Moodle platform. by itself study in format organization etilb, video lessons, interactive training and practical assignments own inside received.

Mobile learning technologies. 230 in Indonesia profession education teachers in the presence of held in research mobile to education based training system efficiency high that defined. ADDIE model based on working issued in

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the system of the students professional competencies evaluated is, the previous test results (15.62) compared to the next test results (18.84) noticeable growth The N-Gain indicator is 0.74. organization this is high efficiency from the level evidence Also, 90 percent of the participants the system " very " interesting " he said.

Digital in competencies spaces. By Online Learning Consortium held request results new to work acceptance made of employees digital in their competencies noticeable spaces existence showed that 79 percent of respondents use LMS platforms work skills enough 64 percent said they did not , but 64 percent said they did not use authoring tools (Articulate, Adobe Captivate) knowledge weakness, 57 percent and artificial intellect from the means use qualifications low record Also, 50 percent of respondents reported analytics in the field competencies lack of emphasized.

This problems eliminate to grow for organizations different approaches using: work in place training (86 percent), internal seminars (71 percent), mentoring and from colleagues study (64 percent), external conference and webinars (57 percent), and tools like LinkedIn Learning or Skillsoft to platforms subscriptions (50 percent).

Digital technologies current to grow Trends . Research this shows that the next 3-5 years inside education technologies in the field following directions the most important importance profession will : artificial intellect based on personalized education (64 percent), gamification (57 percent), training analytics (64 percent) and social / collaboration based on education (64 percent). At the University of Kigali held three daily professional development exactly in the program this to directions separately attention aimed at is, then artificial intellect from the means education and in research use the Moodle platform optimization, evaluation methods improvement issues seeing released.

Discussion. Retrieved results analysis this shows that digital education technologies future of experts professional readiness in improvement important factor However, they are effective current to grow one row of the conditions requires execution.

Digital of the environment integration . Research results this showed that simple digital to the environment relatively integrated digital environment

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students professional competencies in formation more efficient This is the case. digital of tools each other with integration , data exchange and uniform education ecosystem creation education process continuity and systematicity to provide with In particular, the Moodle platform forums, quizzes, video lectures such as interactive tools students not only knowledge maybe critical and creative thinking also develops their abilities.

Of the others role and Digital preparation technologies current to grow in the process teachers role is unparalleled. Mekelle University and Germany-Jordan university experiences this shows that teachers digital competencies to develop aimed at systematic programs education to the quality directly impact However, the Online Learning Consortium study shows many supreme education in institutions teachers digital competencies still enough at the level that it is not This is showing itself . In turn, students professional readiness to the quality negative impact to show possible. Especially artificial intellect from the means use according to competencies low (57 percent of respondents record serious problem is at the University of Kigali. training in the program artificial intellect to the means separately attention directed and of the participants this about knowledge and skills an attempt was made to increase positive experience as evaluation possible.

Mobile learning opportunities of mobile technologies intense development education in the process mobile from education use opportunities Indonesia experience mobile to education based systems of the students professional competencies in increasing high efficiency This situation mobile of education convenience, adaptability and desired at any time , at any time in place education to take opportunity with is explained. Especially, the edge in the regions education institutions for mobile education technologies from resources equal use opportunity creates.

Digital inequality problem . Research this shows that the digital from technologies use opportunity all education institutions and students for one kind not. Contingent teachers, half at the rate working employees and less resourceful in institutions employees necessary software tools and from trainings use to the possibility has They are not. This is digital inequality the problem brought releases and qualified personnel in preparation to injustice reason Therefore,

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digital technologies current in the process of equality and inclusiveness principles separately attention focus necessary.

Education of programs adaptation. Digital transformation under the circumstances education programs also change must. Traditional education programs often known one to the tools based is , technologies fast change under the circumstances outdated Therefore , researchers are looking for transferable skills – design thinking, information literacy , digital content create, various on platforms cooperation to do and artificial from the intellect responsible use such as competencies to develop attention focus necessary This approach students technologies to change despite, work in the market competitive become to stay provides.

Academic and industry Digital cooperation in competencies the spaces eliminate of reaching effective from their paths one academic organizations and industry between cooperation Online Learning Consortium research stated that the highest education institutions and work providers between close cooperation: learning programs together working exit, microqualifications and vendor certificates offer to do and continuing professional education for systematic directions create opportunity This is the same as the in turn, future of experts labor market requirements complete answer give to take provides.

Limitations and future research directions. This research one row to restrictions First, the analysis made empirical information mainly foreign supreme education institutions to experience based to be, Uzbekistan supreme education in the system situation complete reflection Secondly, in the study used samples relatively small divide and divide the results in generalization caution is required. Third , digital of technologies education to the quality the impact in evaluation far term dynamic observations not held.

Future in research following to directions attention focus to the goal suitable : artificial intellect of tools future of experts professional competencies impact , digital education technologies different industry experts in preparation to oneself characteristics, digital inequality eliminate to grow mechanisms, as well as Uzbekistan supreme education in institutions digital technologies current to grow status and efficiency.

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Conclusion . Future of experts professional readiness in improvement digital education technologies place and importance study according to take visited research results following conclusions release opportunity gives:

First , digital education technologies, in particular LMS platforms (Moodle, Open edX), mobile education applications and artificial intellect tools future of experts professional competencies in formation important factor is considered . Integrated digital environment students not only knowledge maybe critical and creative thinking abilities also serves the development does.

Secondly , digital technologies education to the process successful current of reaching main from the conditions one of the teachers digital competencies systematic development. The students digital pedagogy , instructional design and artificial intellect from the means use skills to form aimed at programs education to the quality directly impact shows.

Third , mobile education technologies education to take opportunities expand , any at the time and desired in place winter opportunity Especially the edge in the regions education institutions for mobile education from resources equal use opportunity in creation important role plays.

Fourth, digital in competencies the spaces eliminate to grow for supreme education institutions and work providers between cooperation reinforcement , training programs labor market requirements adaptation and continuing professional education system create necessary.

Fifth , digital technologies current in the process of equality and inclusiveness principles separately attention focus All education institutions and students digital from resources use opportunity provide digital inequality eliminate of reaching important is a condition.

Conclusion as literally, digitally education technologies future of experts professional readiness improvement important tool and they effective current to grow supreme education institutions strategic priority from directions one to be This is necessary . in turn , our country competitive personnel potential to increase and real sector of the economy needs to satisfy service does.

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