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IMPROVING THE PREPARATION OF FUTURE ENGINEERS FOR PROFESSIONAL ACTIVITY BASED ON MEDIA EDUCATIONAL MEANS.

Annotation: This in the article media education of tools the essence of them engineering in education place and future engineers professional to activity in preparation efficiency illuminated. Also, innovative pedagogical technologies, modern information and communication tools , virtual environment and digital from platforms use through education quality increase according to offers working released.

Key words: media studies, engineering education, information technologies, professional preparation, virtual lab, digital platforms, simulators.

Introduction. **Today** on the day digital technologies intense developed going one under the circumstances engineering education quality increase current to the point became. Future engineers modern technologies, software supply, digital simulations, automated systems and engineering in design effective work can at the level professional to competencies has to be necessary.

Media education from the means use engineering in education new opportunities open gives. In this students theoretical knowledge practice with interactive, interactive methods using their professional skill is developed. Therefore media education engineering in the direction of education in the process good quality of teaching main from the conditions one is considered.

1. Media education of tools essence and importance.

Media education is information and communication technologies, digital platforms, interactive resources and from various multimedia tools using education process effective organization is to reach.

Modern media education teacher and students between two one-sided communication providing, education process technologizes and practical skills in formation important importance profession Especially in engineering in education media education from the means use professional preparation quality in increasing important place holds.

Engineering in sciences digital of technologies advantages

Engineering in education digital from technologies use one row advantages provides:

- **Efficiency** – for students complicated engineering processes visual explanation opportunity.
- **Interactivity** – student and teacher between communication strengthens.
- **Flexibility** – remote education, learning at the pace suitable methods application.
- **Innovative competencies** – digital tools through engineering startups creation, prototyping and automated systems working exit skills develops.

Engineering in education digital technologies application future engineers **professional to activity preparation** in the process important importance profession Digital technologies using students theoretical knowledge strengthened, practical skills takes shape and innovative thoughts It also develops digitally. education environment expansion through international to standards suitable, competitive, high qualified engineers preparation opportunity is created.

Simulators – realistic technological processes in a virtual environment exercise to do opportunity giver programs. These tools using students engineering to the sciences was interest increases, theoretically knowledge deepens and professional skills is strengthened.

Globalization and digital technologies in the century engineering to education The demand is significant. at the level exceed Engineering in the field modern working release processes high accuracy , speed and requires flexibility.

Therefore, the future engineers professional readiness only theoretical knowledge with not limited, but practical skills, independent thinking, technologies analysis to do and application qualifications justification necessary .

this process media education tools important place Media education technologies through students practical skills formation, real production release processes modeling , virtual experiences transfer and remote also effective in the environment education organization to grow opportunity is created .

Technological progress during working release processes increasingly becoming complicated Today 's engineer modern software supply , automated systems , robotics , artificial intellect technologies with work to receive Therefore , engineering in the direction of supreme education in institutions studying students theoretical knowledge with together practical also has skills to be necessary . In this process **media education tools** important place Media education using theory and practice is harmonized, students work in real release to the conditions zoomed in in the environment taught in virtual laboratories experiments conducts simulations through technological processes analysis does .

Future engineers professional to activity in preparation media education of tools place Virtual laboratories, multimedia resources , AR/ VR technologies and simulation systems realistic work for students release processes safe and effective study opportunity gives . Media education using in students independent thinking, technological processes modeling and problems solution skills is formed.

Engineering in education media education technologies application modern engineers preparation the most important from factors They are one. using students not only theoretical knowledge, but practical They also acquire skills. Media education technologies wide on a scale current to do engineering in the field high competent, competitive and innovative thinker experts in preparation big opportunities creates .

Current time technologies development as a result education in the process media education tools and technologies place incomparable at the level increased.

Especially in engineering education in the field media education technologies not only theoretical knowledge, but practical skills also effective in shaping tool as service Engineering in the field future experts in preparation modern media education from technologies use their professional competencies develops , creative thinking ability strengthens and problems analysis to do and solution find skills increases .

Digital technologies development, industry automation, artificial intellect and "smart" work release processes wide application engineering education time requirements adaptation necessity This perspective from the perspective **of media education from the means effective use** future engineers professional to activity preparation process further improvement main from directions is one.

Media education based on professional to prepare improvement engineering education quality to improve, modern technologies deep domesticated, practical to skills has and competitive experts to prepare service Media education technologies wide on a scale current to grow through, students professional competencies develops. Modern in the period digital technologies all to sectors deep enter is progressing, including engineering education the system is also except not. Engineering in the direction of studying from students not only theoretical knowledge, maybe practical skills, modern software from supply use qualification and digital competencies are required. Therefore engineering in education digital technologies wide current education, media education from the means effective use and interactive study methods application important importance has.

Engineering in education students many complicated calculations, design works and technological processes absorption need. Traditional education methods this in process enough not. Media education tools following opportunities creates:

- **Virtual laboratories** - students are exposed to real conditions close in the environment experiments transfer to the possibility has For example, electronic schemes assembly or mechanic forces analysis to do.

- **3D modeling and visualization** – complex engineering objects clear imagination to do help CAD, SolidWorks, AutoCAD, etc. programs this the process supports.
- **Simulation technologies** – production release processes, flows management or energy systems in a virtual environment from the test transfer opportunity gives.
- **Multimedia content** – video lessons, animations, interactive graphics through complicated topics easier to understand help gives.

Engineering in education media education technologies application students for theoretical knowledge practical skills with to harmonize opportunity creates. Virtual laboratories, 3D modeling, simulation systems and online study platforms through students future professional to the activity further thorough As a result, modern media education approaches engineering education quality increases, innovative thinking develops and competitive experts to cultivate service does.

Used literature:

1. Hamidov J.A Profession education teachers in preparation of teaching modern didactic tools create technology // Monograph. -Tashkent, “Sano- standard ” publishing house. 2017

2. Hamidov J.A Modern education from technologies of use theoretical basics. Profession education. - Toshkenet, 2007

3. Kadyrov H.Sh. Modern in pedagogy profession education teachers preparation current issues // Pedagogy, scientific and theoretical and methodical magazine TDPU, - Tashkent, 2019

4. Eshonkulov AA, (2024). Media education future engineers to the profession in preparation " Economics " I Society " №1(116) 2024.

5. Eshonkulov AA Engineers in preparation media education Platforms: Remote and mixture formats possibilities. Think intelligence scientific methodological journal JDPU, 2024

6. Abdullayev, K., Ismoilov , T. (2017). Media Education tools and from them in education use Tashkent: University publishing house.