Current Status Of Scientific-Methodical Support For The Development Of Information And Communicative Competence Of Future Engineers And Ways To Improve It

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ABSTRACT

This in the article future engineers informational and communicative competence develop process provider scientific and methodological of supply current status analysis Modern digital education in the environment engineering education efficiency in increasing informational and communicative competencies important factor is considered. In the study engineering in education being used methodical approaches, educational-methodical materials, electronics education resources and pedagogical technologies analysis Also, scientific and methodological supply improvement main directions , digital education from the means use opportunities and education to the process innovative methods current to grow issues illuminated . Research results future engineers informational and communicative competence develop process effective organization to reach service does.

Keywords: Informational-communicative competence, engineering education ,scientific and methodological supply, digital education environment, pedagogical technologies, innovation methods, electronic education resources, competence approach

Today on the day education in the system done increasing reforms , digital of technologies intense development and working release of the sectors modernization engineering education in front of new requirements is putting . Modern engineer not only technician to knowledge has to be , maybe information from technologies effective use , information analysis to do and professional in activity application skills also has to be necessary [1].

This point of view from the point of view future engineers informational and communicative competence develop important pedagogical from tasks one This is the process effective organization in the process of scientific and methodological supply important role plays [2].

Scientific and methodological supply education process content , methods , forms and tools own inside received without education efficiency to increase service does .

Scientific and methodological supply education process effective organization to reach service doer educational-methodical materials , methodology recommendations , training programs , textbooks , electronic resources and pedagogical technologies from the complex consists of .

Engineering in education scientific and methodological supply following elements own inside takes [3]:

- training plans and science programs ;
- textbook and training manuals ;
- methodical instructions ;
- electronic education resources ;
- virtual laboratories ;
- remote education platforms .

This tools students knowledge , skill and competencies to develop service does .

Current on the day supreme education in institutions engineering directions according to education in the process various kind educational-methodical materials and digital education from the means is being used . However there is scientific and methodological of supply some There are also disadvantages . They of the following consists of :

1. Information and communication competence to develop aimed at methodical of materials enough at the level working not being released .
2. Electronic education resources all in sciences one kind at the level current Immaturity .
3. Students independent education activity to develop directed methodical recommendations scarcity .
4. Digital education from platforms use according to methodical instructions enough not . This problems engineering in education informational and communicative competence develop process to the efficiency negative impact to show possible [4].

Future engineers informational and communicative competence develop for following methodical from approaches use to the goal appropriate is :

Competency approach . This approach in students professional competencies to form aimed at is engineering education efficiency increases .

Integrative approach . Interdisciplinary integration based on information technologies various sciences with harmonization through students knowledge systematic is formed .

Problematic education . Students in front of problematic situations to put through their independent thinking and information analysis to do skills is developed .

Project based on teaching . Students practical activity organization to grow through information from technologies use skills is formed .

Future engineers informational and communicative competence develop according to scientific and methodological supply improvement for following to the directions attention focus necessary [5]:

1. Digital education resources create . Electronic textbooks , interactive training materials , virtual laboratories and multimedia resources create important is considered .

2. Pedagogical technologies current Innovation pedagogical technologies , including :

- blended learning ;
- remote education ;
- interactive teaching methods ; education process efficiency increases .

3. Teachers digital competencies develop . Teachers modern information from technologies to use to teach through education quality increase possible [6].

4. Independent education development of students independent information search , analysis to do and from it use skills develop important importance has .

5. Electronics education from platforms use of LMS systems , virtual learning environments and online education platforms wide current to grow necessary .

Research results this shows that the future engineers informational and communicative competence develop modern engineering education important from directions one This is the process effective organization in the process of scientific and methodological supply important role plays .

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