

DEVELOPMENT OF INFORMATION AND COMMUNICATIVE COMPETENCE OF FUTURE ENGINEERS AS A PEDAGOGICAL PROBLEM

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ABSTRACT

This in the article future engineers informational and communicative competence development pedagogical problems, their theoretical basics and modern education in the process caught place analysis Digital technologies developing under the circumstances engineering in education informational and communicative competencies formation current from tasks one is considered . In the study informational and communicative competence content, structure parts , it to form impact provider pedagogical factors and modern education from technologies use issues seeing Also , engineering in education digital education environment , information from technologies effective use and students independent education activity develop issues scientific in terms of based on . Research results future engineers informational and communicative competence to develop service doer pedagogical the conditions to determine help gives .

Keywords: Informational-communicative competence , engineering education , digital education environment , pedagogical problem , competency approach , innovative education technologies , professional competence , digital pedagogy , education digitization .

INTRODUCTION

Today on the day education in the system digital of technologies wide current to be education process content and shape fundamentally is changing . Especially in engineering in education modern information from technologies effective use important importance profession Digital economy under the circumstances working release processes , technological systems and engineering activity information technologies relies on . This because of future engineers informational and communicative competence develop current pedagogical from problems one is [1]. Information-communicative competence student's information search , repeat work , storage and from it effective use ability , as well as modern communication tools through knowledge exchange skills own inside It takes . competence not only engineering in the activity, but research in the process also important importance has .

Education digitization in the process engineering education The content is also being updated . Modern engineer not only technician to knowledge has to be , maybe information technologies application , large in size information analysis to do and collective in the environment effective communication to do also has skills to be necessary [2] .

Modern in society information technologies all in the fields wide is being used . This because of supreme education in institutions future experts preparation in the process informational and communicative competencies develop important from tasks one is [3].

Engineering in education this competence develop following factors with is marked :

- working release processes digitization ;
- engineering in the activity information technologies wide application ;
- global information in the place effective communication to do necessity ;
- innovative technologies working exit and current to grow in the process information from resources use need .

This because of future engineers informational and communicative competence develop pedagogy science important research from directions one as is being considered .

Scientific in literature information - communicative competence concept various kind in interpretations occurs . Some researchers him/her person's information with work ability as if he explains , others him/her communicative activity with related complex competence as looks [4].

Information and communication competence following structural from parts consists of :

1. **Information competence** – information search , analysis to do , to repeat work and from it use ability .
2. **Technological competence** - information from technologies effective use skills .
3. **Communicative competence** – information various communication tools through transmission and acceptance to do ability .
4. **Analytical competence** – information analysis to do and problems solution in the process of from it use ability .

This competencies future engineers professional in the activity important role plays [5].

Engineering in education information - communicative competence develop in the process one row pedagogical problems there is . They of the following consists of :

- education in the process modern information from technologies enough at the level not being used ;
- students independent information search skills enough at the level underdevelopment ;
- digital education from resources use methodology enough at the level working not being released ;
- teachers digital pedagogy competencies various at the level to be

This problems eliminate to grow for education in the process innovative pedagogical technologies current to grow important importance profession will reach .

Digital education environment students information with work opportunities expands . Electronic education platforms , virtual labs , online education resources and multimedia tools engineering education efficiency increases [6].

Digital education in the environment following from methods use effective is:

- project based on teaching ;
- problematic education ;
- electronic education from platforms use ;
- virtual laboratories ;
- multimedia from technologies use .

This methods students information with work skills to develop help gives . Future engineers information - communicative competence develop modern education system important from

the duties is one . Digital education environment , innovative pedagogical technologies and competency-based approach this of the process efficiency to increase service does .

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