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The Role of Bim Technologies in the Information System of Education

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Abstract: In the article of builders professional competence increase, modern informed from technologies wide use, formation of a specialist as a well-rounded, humane, comprehensively developed person and in them competence features research done.

Keywords: competence, professional _ activity, professional competence, BIM (Building Information Modeling), CAD (system automatizirovannogo projection), Design, model, Project.

The construction industry is increasingly complex and demanding, and new technologies and processes are constantly being introduced. To overcome this complexity, future civil engineers must have a solid foundation in technology, understanding and implementing the latest technologies such as building information modeling (BIM), computer-aided design (CAD) and augmented reality (AR). This creates the need to develop the technological competence of civil engineers in an informational educational environment.

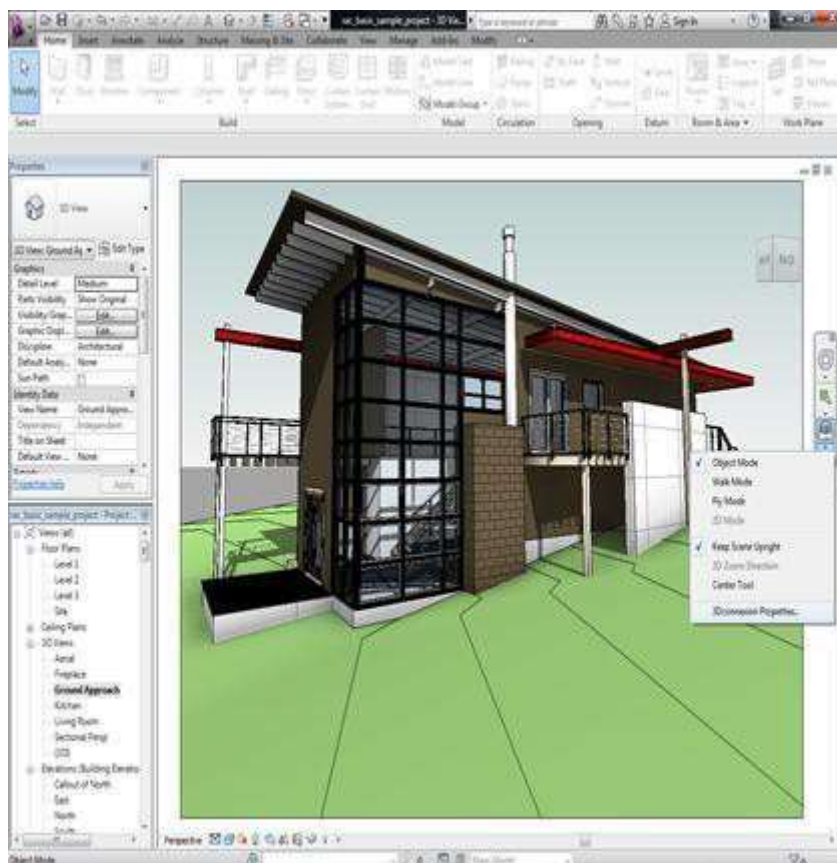
In addition, technological competence can provide a competitive advantage in the construction industry. In a highly competitive market, those with the most advanced technological skills are more likely to win new contracts and clients. This is especially important in an industry where innovation and efficiency are critical to success. The need for the integration of educational processes requires the formation of an open information-educational environment, which allows: to take the educational process outside the educational institution; establishment of large educational consortia; creating global libraries of educational resources; to ensure adaptation of future specialists to new working conditions in the global information space. Accordingly, by developing the technological competence of future engineers-builders, logical thinking and the formation of necessary competencies in finding solutions to professional problems occupy an important place.

It is known that in a democratic society based on market relations, the level of suitability of each specialist occupying this or that job or service position depends on how well he meets the various requirements for the owner of this job or service. It's going to happen. In the following years, in order to develop the basis for calculating the level of suitability between a job or service and a person applying for this job or service, researching professional competencies in a number of countries of the world and applying the results of such research in practice several concepts emerged. The word "competence". translated as "competent", "deserving". to be "like meanings meaning Latin word competere _ _ based on harvest was _ "Competence" means a person one by one from the field awareness, that's it the field to know level understood. [1]

Future _ of the teacher professional competence formation pedagogues in preparation complicated

problems in line to himself special place holds _ Especially education modernization with dependent _ of reforms current stage professional pedagogical to the activity adaptation problem more obvious manifestation is happening Future _ teachers practical , psychological , methodological , research types with one in line of the teacher professional competence formation with rich is going Professional competence diagnosis professional of formation essential characteristics diagnostic , communicative , management and projective studies _ groups input it is necessary The teacher to know activity many p in terms of being studied of things complexity , dynamics , non-standard , social events separate standing of borders influence them _ search , uncertainty with is determined _ while observation , interlocutor internal the world modeling qualification mean holds _ This is it without himself _ in order put features own knowledge and qualifications always improvement necessity , another to people directed own behavior strictly coordination study with is described . [2]

On the Strategy of Actions for the Further Development of the Republic of Uzbekistan " , PQ-2909 dated April 20, 2017 "On Measures for the Further Development of the Higher Education System", Decree No. PF-5349 of February 19, 2018 "On measures to further improve the field of information technologies and communications" , No. PQ-3775 of June 5, 2018 "Increasing the quality of education in higher education institutions and their promotion in the country "On additional measures to ensure active participation in comprehensive reforms" dated October 6, 2020 PQ-4851 "Further improvement of the educational system in the field of information technology, development of scientific research and their integration with the IT industry" on measures to be taken" dated August 31, 2021 No. PQ-5241 "On measures to strengthen the continuity of the educational process and production practices between higher, secondary special and professional educational institutions" and this activity Other regulations on i require further research in this area.

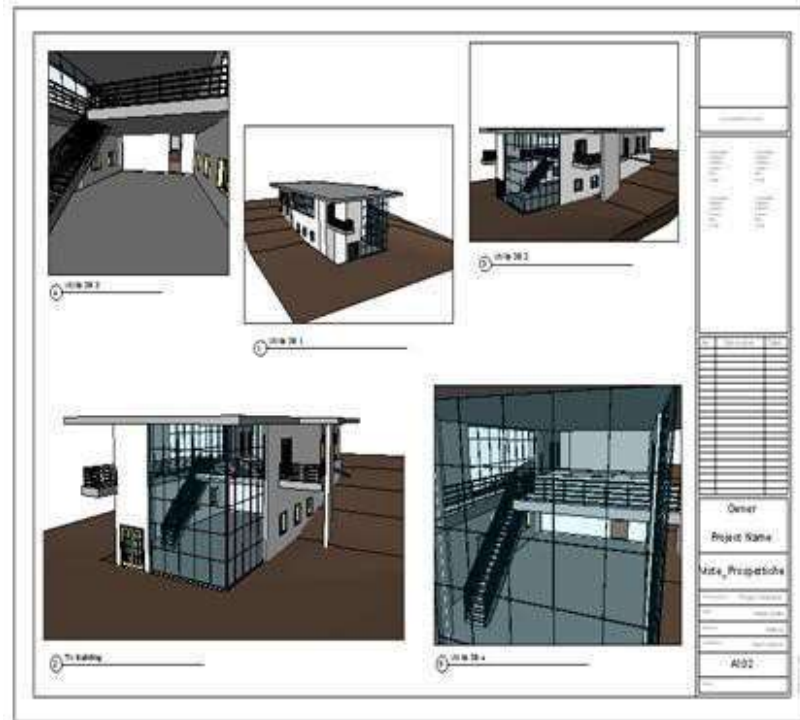


What is BIM ? technology ? Many p people software supply name BIM letters behind they consider it hidden . Others drawn they think that the building is BIM . But it is simple the definition to give possible not _ BIM in design "Building Information Modeling" - building digital model Create technologies of the building three dimensional _ model to create based on , but this without the model not only geometric elements and of tissues is a set . In fact , such a model is in reality was _ and to himself special physicist properties have of the virtual elements that are consists of BIM technology

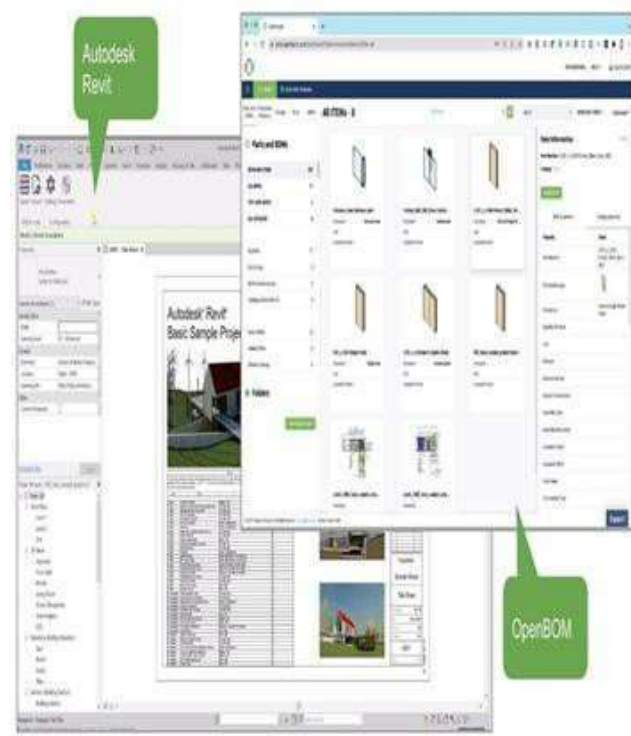
building to design and even construction from the beginning in it before happen will be all processes complete to count and to determine possibility gives _

BIM technologies application of reaching advantages

First and the surest advantage is 3D visualization. _ from BIM technology of use the most wide spread out method this visualization. This is us not only the project to the customer beautiful way present maybe _ _ the old ones replacement for the most good design solutions to find enable gives _



Second the advantage is that changes _ efficient and easy manage enable giving in the model information centralized save _ To the project known one change _ when you enter , it immediately all in views : floor in plans , heights or in plots is displayed . It is also a design documents Create speed significant level increases and errors probability reduces _



Data manage again one too much After all , in the BIM model all information graph respectively reflection carry on possible not _ That's why for the model also contains BOM catalogs they are _ _ the project Create for necessary has been forces determination for is used . In the model financial There are also indicators. So so that the project approximate value to him changes _ from included after immediately is determined.

BIM technology to design input financial expenses reduces and object to work drop off the term significant level shortens. Therefore, most _ construction companies own _ in practices modern information modeling methods they try to use.

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