

HIGH IN EDUCATION PHYSICS COURSE SPECIALTY PHYSICS WAS NOT IN DIRECTIONS OF TEACHING SOME ASPECTS

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ABSTRACT

This article presents some aspects and examples of teaching a physics course in non-physics majors in higher education .

Keywords quantum, wave optics , necessary element, natural-scientific sciences, Electrostatics .

The concept of the development of the higher education system of the Republic of Uzbekistan until 2030 and the law on science and scientific activity determined the perspective of the development of the education system in Uzbekistan in the 21st century. These important documents show that the success of the reforms implemented in our country largely depends on the fundamental improvement of the education system. So it is society development , development of science efficient teaching to technology depend _ Efficient teaching in technology lecture important importance occupation is enough

High study in their countries lecture deep scientific , perfection , thinking for simplicity with is qualified . Material statement doer speaker how on purpose what to teach wants ? Knowledge and the time what for is spending ? In the subject the problem society needs with connect is he getting The audience common thinking to the process attraction do it is he getting Students by questions interest with is it rising ? said to questions answer give take it is necessary Material scientific statement The current science of making situation , his research methods and development directions _ determines _

Physics Science is fundamental and in nature main the most many p laws as a representative science , man of activity almost everyone in the fields need will be High in education physics course worker program in formation , physics the only one and continuously course as education _ need , but in this this specialty for main education program requirements attention taken need _ This program done increase methodology and worker program work exit of the issue difficulty is a general engineer and general engineering sciences with of physics interdisciplinary from connections used without ,

the fundamental course of physics statement in making , of students to science natural interest to the issues of this science not quenching need _ Technology _ directions _ for , to specialty depends didn't happen without , of nature main the most a lot laws representative , natural-scientific of sciences continuously and the only one course as view need _ In this physics course according to worker program Create for , special sciences and professional cycle in the sciences continuation which cannot be , physics fundamental topics on separately separate need _ Such to topics common and special relativity theories , quant and wave _ of optics some issues or quantum mechanics elements departments as , high in courses of students next in education duration not , but this departments future specialists (for example , engineer and etc.) in basic education is a necessary element remains .

These are fundamental subjects , physics in the chair completed apparently _ view need _ That is students , general physics according to education in getting , physics events , main laws and their application _ of the border physical meaning according to deep knowledge to get need _ Highlight should be theoretical mechanics in the chair mechanic of action dynamic and kinematic characteristics of thermodynamics special in the chair liquid of flow laws or in gases cycle processes such as topics what he did for , physics in the chair them shortened in order to give can _ That's why for this event , physics course worker program in composition , interdisciplinary connections optimization is considered Physics course content of expression limit - of students constant active interest to provide is an aspiration . High in education physics course specialty physics was not in directions in teaching attention to give need has been some aspects example to bring can _

1. « Molecular physics and thermodynamics basics » section _ in teaching , heat physics with depends issues to learn attention to give need _
2. " Electrostatics " department in teaching , various technological in processes , electricity of the field charged to objects effect differently apply issues to learn attention to give need _
3. « Vibrations and " waves " section in teaching , acoustics different issues to learn attention to give need _
4. " Quant optics elements » topic in teaching , luminescence event in lighting engineering apply issues to learn attention to give need _

Modern students for , physics course material statement of doing possible was _ options search need _ Internet or another to sources competitor , in this lecture to the material interest provide need _ But this condition , physics course content to ease take does n't come because modern physics concepts mastery , theoretical _ physics elements and suitable mathematician from hardware to use Demand does _

Physics and of mathematics connection , this _ common to both disciplines development with depends . Physics education in the process account get Mathematics is necessary course material statement of doing to the sequence has _ Mathematics course content , its parts strictly makes sense sequence conditions statement to be done need _ Physics course for very important was _ mathematics from departments for example , differential and integral concepts , limit theory and of the function continuity concepts from the statement after is studied [1]. Physics in the chair differential and integrated devices use to the skill known preparation mathematics in the chair done is increased . But physics course , in physics mathematician methods to apply to students to teach issues attention to give to students physicist of events mathematician model to create possibility gives _ Students by algebraic product the concept of action kinematic characteristics in determining better is understood . The concept of definite integral , many physical issues (accelerated in motion particle movement speed to change or pressing passed the way define , variable strength did it work determination and etc.) . with depend _ of physics main laws formulation , experimental the facts analytical with confirmation , this of laws content and their application the limit complete expression reach need _ But in this theoretical physics of the elements introduction , physics course to explain facilitate need _ That's why for , to be studied physical of laws content expressive complicated mathematician from the hardware use need not _ Physics course study _ program such structural seeing Exit , students by this science to learn makes it easier .

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