

Abstract Submitted  
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**Methodological structuring of general physics course in technical university**<sup>1</sup> ANDREI TIUTIAEV, Samara state technical university — In this paper we analyzed the reasons for the low level of the student knowledge of technical universities in physics. Students believe that physics knowledge to consist primarily of disconnected facts and formulas. However students have to view physics as an interconnected web of concepts. In these conditions modern educational technologies are important. One way to improve the efficiency of learning is the use of a deep logical structuring of educational information. In this paper, we propose a new method of structuring educational information in physics. The method is based on the concept that physics consist of phenomenological laws and experimental models of different levels, which explain the phenomenon of the process. Phenomenological method allows you to set the ratio between the most characteristic parameters of the process or phenomenon. Phenomenological laws are quite general in nature and does not take into account the atomic and molecular structure of objects study. In this case, models and hypotheses (classic-entry level, relativistic, quantum-higher level), by which explained the mechanisms of the phenomena that are of particular importance.

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