

**ROLE OF COMPUTER EDUCATIONAL TECHNOLOGIES IN
PROVIDING HARMONIZATION IN THEORY AND PRACTICE
(ON THE EXAMPLE OF THE SUBJECT "RESISTANCE OF
MATERIALS")**

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ABSTRACT

The article describes an innovative method for the simultaneous calculation of the strength and stiffness of rods and shafts by the method of initial parameters. Universal formulas for tension, compression and torsion of the beams are derived, as well as the effectiveness in education of using the MathCAD program in the calculation and design of structural elements is substantiated.

KEYWORDS: *Learning Technologies, Student-Centered Learning Technologies, Computerized Learning Technologies, Practical Skills And Qualifications, Competence, Timber, Strength, Rigidity, Diagram, Internal Efforts, Elastic Mixing, Guaranteed Result.*

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