

Summary

“ Coursework in Theoretical Mechanics” for students of all forms of education

Credit module «Coursework in Theoretical Mechanics» is part of a cycle professional and practical preparation in the direction of preparation Mechanical Engineering speciality Equipment of Pharmaceutical and Biotechnological Productions for students 2 course (3 semester).

The discipline of the department realized Department of Bioengineering and Biotechnies Faculty of Biotechnology and Biotechnies NTYY «KPI».

The purpose of the credit module of the coursework is the formation of student abilities: the ability to calculate supports equipment efforts, under the influence of a plane (convergent or arbitrary) system forces or spatial system of forces; analytical ability to describe the motion of pieces of equipment; capacity building mechanical models of calculation; ability to determine the operation of mathematical models for different initial and boundary conditions; choose the best type of mechanical equipment and to calculate its parameters using a computer; develop simulation technology stands for load equipment must be tested.

According to the requirements of the program of the course students after mastering credit module should demonstrate the following knowledge: principles of construction of settlement schemes items of equipment industry; using the method of decomposition of complex mechanical systems typical fragments; classifying actors internal and external; transition from vector shapes theorems of dynamics to the appropriate scalar; A calculation model analysis for the presence and expression conservation laws; clear distribution of absolute motion of a mechanical system for portable and relative components; defining features kinematics analysis of mechanical systems and ways of its correction.

Developer summary *Karachun Vladimir Vladimirovich, Professor*