

Department of Continuum Mechanics and Strength of Materials

WE OFFER:

Bachelor (4 years) and Master (6 years) programmes in

APPLIED MECHANICS

with specialization

"COMPUTER MODELLING OF THERMAL AND MECHANICAL PROCESSES"

in cooperation with the

A.N. Podgorny Institute for Mechanical Engineering Problems NAS Ukraine



Department of Continuum Mechanics and Strength of Materials

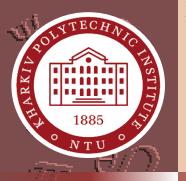


Mathematical fundamentals of continuum mechanics of solids, liquids and gas



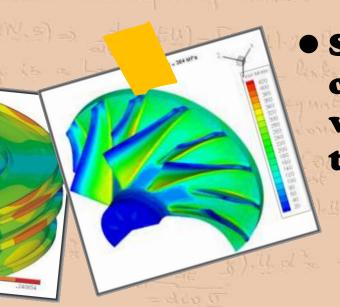
 Numerical methods in engineering applications of continuum mechanics





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AREAS OF STUDYING:



Strength and reliability of structures under various loading and solid to liquid interactions

Structural dynamics and vibrations

Thermodynamics and heat transfer



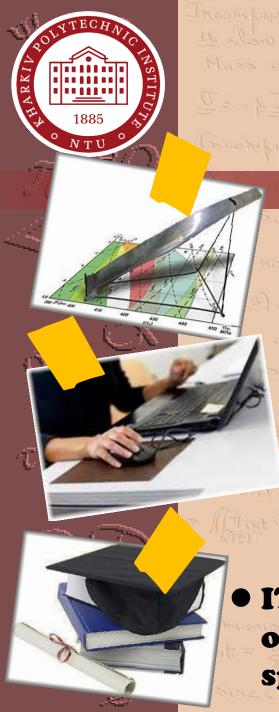
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AREAS OF STUDYING:

Machine design and prototyping



 Computer programming, computer aided design and engineering of structures



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EMPLOYMENT PERSPECTIVES:

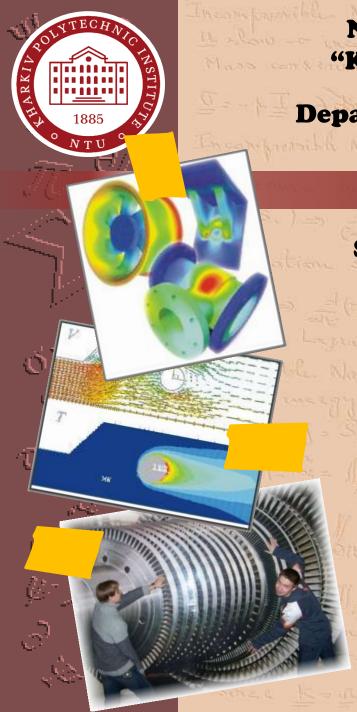
- Industry: design, analysis, testing and expertise of structures, machines and equipment
- Research: post-graduate programmes, work in the scientific and academic communities of mechanical engineers, engineering consulting
- IT: development, testing and maintenance of both field-specific (CAD, CAE) and non-specific software and IT-environments



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SPECIAL ACADEMIC COURSES AT THE BACHELOR'S LEVEL:

- Special issues of continuum mechanics of solids
- Numerical methods in mechanics of deformable solids
- Computer programming
- Computer modeling in continuum mechanics



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SPECIAL ACADEMIC COURSES AT THE BACHELOR'S LEVEL:

- Theory of vibrations
- Design of power machines and equipment
- Fluid dynamics
- Numerical modeling in fluid dynamics



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SPECIAL ACADEMIC COURSES AT THE MASTER'S LEVEL:

- Combustion theory
- Mathematical methods of optimal design
- Special issues of heat transfer
- Multi-phase flow dynamics



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