

## ANNOTATION OF THE EDUCATIONAL COMPONENT

### **Quality management methodology in mechanical engineering**

Status	Selective
Chair	Technical service
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Purpose of discipline	Formation of a system of knowledge among postgraduate students on the theory and methodology of quality management of technological operations in mechanical engineering; principles of construction and functioning of quality management systems; study of technological, organizational and economic issues related to quality management.
Main tasks	Theoretical and practical training of postgraduate students in organizing work on ensuring and managing product quality in mechanical engineering.
As a result of studying the discipline, the student must know	<ul style="list-style-type: none"><li>– modern means of measuring quality indicators;</li><li>– means of processing experimental data regarding quality indicators;</li><li>– principles of quality management at all stages of the machine life cycle;</li><li>– the relationship between the quality and competitiveness of engineering products;</li><li>– basic principles of decision-making theory and methods for optimizing product quality indicators;</li><li>– knowledge of modern concepts and methods of product quality management.</li></ul>
be able	<ul style="list-style-type: none"><li>– assess the level of product quality and accuracy and compliance with technological processes;</li><li>– apply quality assurance methods;</li><li>– develop elements of quality management systems;</li><li>– apply statistical methods of management and quality control of mechanical engineering products;</li><li>– use knowledge in solving problems of improving product quality and controlling it;</li><li>– make informed decisions regarding quality levels.</li></ul>