ANNOTATION OF THE EDUCATIONAL COMPONENT

Qualimetry of tractor tests

Status	Selective
Department	Agroengineering
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Course objective	Formation of theoretical knowledge and practical skills in qualimetric assessment of the operation and production of tractors in future specialists in the field of mechanical engineering, taking into account operating conditions and changes in technical characteristics during the life cycle.
Main tasks	study of directions for improving the quality of tractors at the stage of their life cycle, based on the basic principles of the theory of qualimetry ("quali" - quality, "metry" - measurement), which are successfully used in related fields of technology in assessing the quality of technical products. At the same time, the main attention is paid to the qualimetry of functional, ergonomic, environmental indicators, the safety of tractors and their elements during testing and operation.

As a result of studying the discipline, the student should

know	- basics of tractor qualimetry at stages of life cycle; - principles of assessing the quality level of designed tractors; - qualimetry of tractor traction and energy properties; - metrological support of tractor tests; - accuracy of measurements of tractor system parameters during tests
be able to	- initiate, plan, implement and adjust a consistent process of thorough scientific research with metrological support; - use the procedure for applying standards in the process of creating and certifying a quality management system at an enterprise in the production and operation of tractors; - use the basic principles and requirements of qualimetry and metrological support for tractor testing