## ANNOTATION OF THE EDUCATIONAL COMPONENT

Scientific and methodological foundations of quality assurance of mechanized agricultural technologies

Basic Status

Department Agroengineering

Teacher Barabash Grigohiy Ivanovich, PhD, Associate Professor.

Classroom 216m Contact

Consultation time – every Wednesday from 10:00 to 12:00, information

e-mail: grinya45@ukr.net

Web-page:https://itf.snau.edu.ua/kafedri/ai/sklad-kafedri-ai/barabash-

grigorij-k-t-n-docent/

Formation of conceptual knowledge and scientific and methodological Course approaches to the assessment, analysis and quality assurance of objective

> mechanized technologies in the field of mechanical engineering among higher education students. The discipline is aimed at developing the ability to conduct scientific research, critically evaluate its results, and use modern methods and tools to ensure innovative development in the

relevant field.

Main tasks Providing students with in-depth knowledge of the general principles

> and methods of mechanical engineering, familiarization with modern scientific approaches to assessing and improving the efficiency of mechanized technologies, developing skills in conducting experimental and theoretical research using mathematical and computer modeling tools, developing the ability to critically analyze scientific data, formulate hypotheses and justify conclusions, and preparing for the application of the knowledge gained in teaching and practical

engineering.

As a result of studying the discipline, the student should

- conceptual and methodological foundations of mechanical engineering know

and related industries;

- principles of quality assurance of mechanized technologies.

- methods of conducting experimental research and mathematical

modeling in the field of mechanical engineering.

- modern tools and approaches to analyzing, assessing and improving

the quality of technologies.

- formulate and test hypotheses using the results of theoretical analysis, experimental research and computer modeling.

> - plan and carry out scientific research in the field of mechanical engineering while maintaining professional and academic ethics.

> - critically analyze the results of their own and third-party research in the context of modern knowledge in the relevant field.

> - apply the methodology of scientific research in teaching practice and when solving applied engineering problems.

## be able to