

# Subjects studied at the department

## At the undergraduate course

№	Name of the discipline	Brief information about the discipline
1.	Operation of machine-tractor park	Studies the possibilities and patterns of improving the efficiency of operation of machine-tractor units in farms engaged in the production of agricultural products, and on their basis the formation of the optimal composition of production facilities that ensure the implementation of mechanized processes with the lowest material costs.
2.	Reliability and repair of machines	Studying the scientific basis of reliability in the discipline "Reliability and repair of machines" methods for assessing reliability, failure mode of machines and ways to eliminate them, studying ways to improve reliability of machine durability, maintainability and maintainability, studying general production and technological processes, modern methods of restoring technological processes design of repair and service offices.
3	Basics of mechanization of technological processes	The subject "Basics of mechanization of technological processes" provides students with theoretical knowledge, practical skills, model technological maps in the organization of mechanized technological processes in agricultural production, technology and machines of mechanized work, methodological approaches to agricultural harvesting machines and technologies and the formation of scientific outlook.
4	Mechanization of agricultural production	The subject "Mechanization of agricultural production" provides students with theoretical knowledge, practical skills, methodological approach to mechanized work processes in agricultural production and the formation of a scientific worldview.
5	Transport in agriculture and water management	The concept of "agriculture and water transport" includes knowledge of demand, knowledge of young people, ways of transport, the development of scientific knowledge, transport systems, transport infrastructure and architectural foundations, the movement of laws, specialists and teachers, transport technologies, transport activities, technical inspection technical facilities and technical base; organization of transport operations; principles and principles of tolerance are the key to adopting fundamental principles.
6	Technical support of mechanized works	The subject "Technical support of mechanized work" provides students with theoretical knowledge, practical skills, machine failures affecting the efficiency of agricultural machinery, factors of their technological operation, maintenance of agricultural machinery, effective use of diagnostic methods, methods and organizational forms of machine storage, machines. rules of supply of fuel and lubricants, rules of use of oil depots, methodical approach to methods of design, calculation, optimization of machine-tractor fleets and formation of scientific outlook.
7	Farm capacity and machine management	The subject "Farm capacity and machine management" provides students with theoretical knowledge, practical skills, methodological approach to mechanized technological processes in agricultural production and the formation of a scientific outlook.

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8	Basics of using machines	The subject "Basics of using machines" provides students with theoretical knowledge, practical skills, methodological approach to mechanized technological processes in agricultural production and the formation of scientific outlook.
9	Machine reliability and repair technology	The subject "Machine Reliability and Repair Technology" teaches students the reliability of machines in the agro-industrial complex (ASM), the formation and development of marketing and technical service network, the study of the main features of the reliability of machinery, analysis of existing technical services in agriculture, including FTS. provides knowledge, practical skills in accordance with the profile of the direction on the development of the technical service network and their optimal organization.
10	Design of maintenance and repair enterprises	The subject "Design of maintenance and repair enterprises" to know the basics of maintenance of agricultural machinery, to have an idea and theoretical knowledge of technical means of maintenance, to master the methods of practical experiments, to provide practical skills in modern computing and computers. performs its functions.
11	Technical diagnostics and maintenance	The subject "Technical Diagnostics and Maintenance" is the diagnosis of agricultural machinery, knowledge of the basics of maintenance, knowledge and theoretical knowledge of technical means of maintenance, mastering the methods of practical experiments, practical work on modern computing techniques and computers in processing the results. performs skills transfer tasks.
12	Basics of branded maintenance of agricultural machinery	"Fundamentals of branded maintenance of agricultural machinery" To have an idea of the current state and prospects of development of technical service, branded technical service, leasing and dealer services in the Republic and developed countries, the composition of tractor fleets, methods of efficient use of machinery. use, technological processes of technical service, methodological and scientific approach to their implementation.
13	Machine reliability and maintenance	The subject "Machinery reliability and maintenance" methods of assessing the reliability of machines, the causes of machine failure and methods of their elimination, durability, longevity, maintenance, maintenance, modern technological processes for repairing agricultural machinery, restoration of machine parts, repair - teaches the basics of designing maintenance departments.
14	Technical efficiency of machines	The subject "Technical efficiency of machines" provides students with theoretical knowledge, practical skills, the use of the most modern methods of increasing productivity, primarily through the use of techniques to improve their performance, and the introduction of new procedures and rules of work organization.
15	Fundamentals of scientific research	"Fundamentals of scientific research" provides students with theoretical knowledge, practical skills, methodological approach to mechanized technological processes and the formation of a scientific worldview.
16	Operation and maintenance of machines	The subject "Operation and maintenance of machines" provides students with theoretical knowledge, practical skills, methodological approach to mechanized work processes in agricultural production and the formation of a scientific outlook.

17	Resource-saving techniques and technologies	The subject "Resource-saving equipment and technologies" is responsible for the organization of modern resource-saving technologies, energy tools and machines for the application of resource-saving techniques and technologies in agriculture, as well as areas of scientific and technical development, product quality and technical and economic performance.
18	Machine reliability and maintenance	The subject "Machine Reliability and Maintenance" is aimed at improving the reliability of agricultural machinery, knowledge of the basics of maintenance, theoretical knowledge, mastering the methods of practical work, the development of modern computer technology and practical skills in processing the results.
19	Ergonomics of agricultural machinery	The subject of "Ergonomics of agricultural machinery" is the relationship between the technical sciences and man and his labor activity, that is, its characteristics as a part of an automated system (human fatigue, workload, working conditions, environment and biomechanical and physiological factors). and b.), design tools to study the interaction of man and machine, share the activities of the operator and the machine, train, train and select the operator.

### At the master's course

№	Name of the discipline	Brief information about the discipline
1	Basics of use and maintenance of agricultural machinery	The subject "Fundamentals of the use and maintenance of agricultural machinery" to increase the reliability of agricultural machinery, their efficient use and efficient use of various machines and their units in accordance with the natural production conditions given to future specialists in the field of maintenance; selection of material and technical bases of agricultural machinery on a scientific basis; high efficiency use; study of their reliability indicators; evaluation; to organize the ability to work using modern maintenance technologies and techniques, to provide their performance and resources using the most modern methods, to form knowledge and skills on the basics of improving and developing resource recovery technologies, technological processes of machine parts restoration.