# Disciplines teached by the chair

| № | Name of subject | Brief information about the subject |
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| 1 | **Resource efficiency basics(Master's degree)** | Effective use of the machine resource, causes and laws of its working capacity decrease; to achieve resource efficiency in the processes of machine technical service, unit and machine repair and restoration of details; consists of forming theoretical and practical knowledge on the methods and means of assessing the quality of repaired items and restored details. |
| 2 | **Hydromechanization means(Master's degree)** | Design of working equipment of hydromonitors, mud suction pumps and mud suction shells used in water management, selection of development trends and priority directions of mud suction shells, taking into account technological, structural, operational, social, economic and environmental requirements It consists in mastering technical calculation and design methods, finding suitable technical solutions, applying and modernizing them, and applying them in construction practice, and developing sufficient skills in the elements of mathematical modeling in design, systematic approaches to their calculation |
| 3 | **Experiment planning(Master's degree)** | Chosen specialty to the field suitable new scientific results, being conducted scientific research projects topic according to models, algorithms, methods, software solutions, instrumental tools research to do and work exit; exemplary conduct experimental studies on methods and others and their processing the results, analyzing the results of scientific research, experiments are functional finding connections, expressing the obtained experimental results through empirical formulas methods, experimental studies, them transfer styles, planning, preparation, tensometric devices, numerous again switches, strain gauges, in working condition of cars work in release samples and from layouts use, measure accuracy, in experience received to the results processing giving skills from development consists of |
| 4 | **Fundamentals of machine design(Master's degree)** | Master's students are taught the theoretical foundations of designing the working equipment of construction and land reclamation machines, the selection of development trends and priority directions for construction and land reclamation machines, mastering technical calculation and design methods taking into account technological, constructive, operational, social, economic and environmental requirements, and the adoption of acceptable technical solutions. to find, apply and modernize it, and to use it in design practice, to develop sufficient skills in the analysis of construction and land reclamation machines and the systematic approach to their calculation, and the elements of mathematical modeling in design |

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| 5 | **Admission to the specialty** | The student should have full information about the specialty, the main forms of the educational process, new criteria for mastering and evaluating materials, the rights and obligations of students, public affairs, scientific research, and the production process. and their types and practices, implementation and planning of new techniques and technology, scientific organization of work, production process of enterprises and organizations related to the field and their organization, implementation and planning of new techniques and technology, scientific organization of work, enterprise It consists in developing sufficient skills to perform auxiliary service and technical control work, according to the rules of technical safety |
| 6 | **Reclamation and exploitation of water management techniques** | Formation of practical skills in the effective use of machines, ability to adjust their working equipment, preparation for work, maintenance and restoration of damaged parts, testing, diagnosis, malfunctions of reclamation and construction machines, tractors and technological devices. elimination methods, causes of machine failure, malfunctions and defects, their detection and elimination methods, reliability indicators of machines: undamaged operation, thoroughness (durability), maintainability and maintainability, technological processes of machine repair and modernizing their components, using modern methods of restoring machine parts; aimed at knowing the methods of identifying detail defects, the equipment used, the selection of the equipment and the optimal method of repair |
| 7 | **Land reclamation and construction machinery** | Based on the natural and production conditions given to the future specialists of agricultural production, the effective use of construction equipment and the study of the requirements and working technologies, that is, the basis of creating technologies, improving and developing the processes of using construction equipment is to develop sufficient skills in terms of knowledge corresponding to the profile of the course |
| 8 | **Reclamation techniques** | Studying the structure, principles of operation, fields of application of reclamation techniques, the structure, constructions, characteristics of working equipment and the ability to evaluate the quality of the work performed by the machine in the interaction of the techniques with the working environment, and to provide them with service while strengthening the acquired theoretical knowledge. a person who has sufficient knowledge and skills to master the rules of display, to be able to determine the main indicators of equipment and working equipment, to be able to choose a machine based on the relevant indicators, to use machines, to know the methods of calculating machines, to know the methodology of performing improvement works aimed at education. |

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| 9 | **Construction techniques** | To study the structure of construction machinery, the basics of operation, the fields of application, the structures, constructions, features of working equipment and the ability to evaluate the quality of the work performed by the machine in the interaction of the machine with the working environment, while strengthening the acquired theoretical knowledge, technical maintenance to master the rules of display, to be able to determine the main indicators of machines and working equipment, to be able to choose a machine based on relevant indicators, to be able to use and manage machines, to know the methods of calculating machines, to know the methodology of performing improvement works and about them to fulfill the tasks of forming a scientific worldview aimed at educating a person with sufficient knowledge and skills. directed. |