Plan
research work of the Department of Physics for the 2023-2024 academic year

№ Item No	. Name of work	Deadlines Completion dates	Performers	Mark of
1	**completion 1 R & D performed:** 1.1 Grant financing project "Research and development of the composition and technology of production of gas-glass and foam-glass blocks from technogenic culvert" 1.1.1 Development of test methods for building materials and products with specified physical and mechanical parameters based on man-made cullet 1.1.2 Development of methods and equipment for continuous adaptive control of thermal conductivity of building materials and products 2. Hydraulic power pulse systems	03.09.2023- 30.06.2024 30.06.2024	Turdybekov D. M.	
2	**Development of interdisciplinarity:** 2.1 Development of a methodology for conducting laboratory tests of gas - glass and foam-glass concrete samples based on technogenic cullet in cooperation with the SMiT Department	03.09.2023- 30.06.2024 .	Turdybekov D. M.	
3	**Publications of research results:** 3.1 Prepare 7 articles, including 5 in journals included in the Thomson Reuters and Scopus databases. 3.2 Take part in the following conferences: international-7 reports; national-9 reports.	03.09.2023- 30.06.2024 30.06.2024	Turdybekov D. M. Teaching	
staff 4	**Inventive activity:** 4.1 Filing of patent applications 4.2 Filing of applications for obtaining ICS	03.09.2023- 30.06.2024 30.06.2024	Turdybekov D. M. Teaching staff	
5	**Research work with students and undergraduates: according to the NIRSM plan 03.09.2023**	-30.06.2024 30.06.2024	Kusenova A. S.	
6	**International cooperation**: 6.1. Continue cooperation with the Faculty of Power Engineering of Novosibirsk State Technical University (NSTU) and the Department of Physics of KSTU. Conduct joint research in the field of studying pre-breakdown processes in liquids by electro-	03. 09. 2023 - 30.06.2024 30.06.2024	Mazhenov N. A.	

	optical methods and computer modeling methods. 6.2. Continue cooperation with the Department of Solid State Optics of St. Petersburg State University. Invite Professor M. B. Smirnov to conduct scientific seminars, master classes, lectures and presentations in the field of modeling the dynamics of complex crystal lattices for teaching staff, undergraduates, undergraduates and doctoral students. 6.3. Establish cooperation with the University of Nimes, France (Rue du Docteur Georges Salan, 30021 Nnîmesmes Cedex 01). Invite Professor P. Saint - Gregoire to KSTU to give lectures, conduct seminars and assist in research work.			