

**Plan of development  
departments Automation of production processes for 2025-202-2027 years**

Non/ a	Name of events	Term of execution	Responsible executor
1.	Development of the scientific and educational complex "Industry-4.0" named after Professor Breido I. V. for the development of educational programs Automation and Control and Electric Power Industry	2025-2027	Head of the Department of APP Yugay V. V.
2.	Development of the Republican scientific and educational center of KSTU - FSEcroFeo: Synergy	2025-2027 Head of the Department of A PP	Head of the Department of PP Yugai Yugay V. V. Development of the Republican Scientific and educational center of KSTU –Feo: Synergy 2025-2027 Head of the Department of A PP Yugay V. V. Development of the Republican Scientific and educational center of KSTU-FEO: Synergy 2025-2027 Yugay V. V.
3.	Development of the international scientific and educational Internet project "Synergy".	2025-2027	Head of the Department of Computer Science and PP Technology Yugai V. V.
4.	Organization of network training in the master's degree program together with MPEI, SPbPU, BSTU and OmSTU in the specialty "Automation and control" within the framework of the "Synergy" project	2025-2027	Head of the Department of Computer Science and PP Technology Yugai V. V.
5.	Ensuring at least 3 people of external academic mobility of students, including due to the arrival of foreign students	annually	Head of the Department of PP Yugai of Higher Education V. V. Yugai
6.	Participation in the work of the interuniversity UMS under the project "Synergy"	2025-2027	Head of the Department of PP Yugai of Higher Education V. V. Yugai
7.	Involvement of at least 1 foreign experts in teaching activities from leading universities of non-CIS countries with a high h-index	annually	Head of the Department of PP of Higher Education

			Yugai V. V.
8.	Implementation of at least 1 DoubleDegree educational programs with universities TOP-700 QS-WUR and SOP.	2025-2027	Head of the Department of PP of Higher Education Yugai V. V.
9.	Development of methodological support for the Synergy project	2025-2027.	The faculty
10.	of the department plans to conduct research on the topic of fiber-optic sensors and monitoring systems in cooperation with enterprises (CU). Joint participation in the competition for grant financing	2025-2027 гг.	Head of the Department of PP Head of the Department of Education and Science Yugai V. V.
11.	Ensure the creation and implementation of virtual laboratories in	the educational process 2025г Head of	the Department of Science and PP Technology Yugai V. V.
12.	Ensure the use of modern material and technical base of industrial enterprises in the scientific and educational process to strengthen the professional training of students in educational programs 6B07101 "Automation and Control" and 6B07109 "Electric Power Industry"	2025-2027 гг.	Head of the Department of Software and V. V.
13.	target financing for scientific, scientific and technical programs: vacuum energy-saving radiator with an effective heat carrier for the housing and communal services system	2025-2027 гг.	Head of the Department of Software Yugai and Power Engineering V. V. Yugay
14.	Development of digital	2025-2027 гг.	equipment for the development of energy-saving equipment for the development of 6B07101 "Automation and Control" and 6B07109 "Electric Power Industry" 2025-2027 Head of the Department of Software Engineering Yugai V. V.
15.	Development of a full MOOC course for educational programs 6B07101 "Automation and Control" and 6B07109 "Electric Power Industry"	2025-2027 гг.	Head of the Department of Software Engineering Yugai V. V.
16.	Annual publication of research results in the rating journals of the TR, Scopus, RSCI, and KazBC databases. Improving the level of the department's stability, preparing and defending a PhD thesis PhD(Tokhmetova K. M. Tokhmetova, M. K. Simbat, G.E. Sundet, Telbaeva Sh. Z. Telbaeva) .2025	-2027 гг.	Head of the Department of PP of the Yugai University V. V.

17.	Development of department branches at Corporate University enterprises, attraction of highly qualified specialists to teaching activities, including under the "Serpin" program.	2025-2027 гг.	Head of the Department of AP Yugai V. V.
18.	Development of international cooperation. Invitation of foreign scientists (Associate Professor at South-West University "Neofit Rilki", Bulgaria, (Prof. Katalinich, Voennik, St. Petersburg) for lectures on modern areas of science and technology. Joint work on the project "development of a prototype of a multichannel fiber-optic system for monitoring the displacement of rocks on the sides of sections with adaptation in the conditions of the Molodezhny section" with Professor A.V. Yurchenko (TPU, Russia) Establishing new relationships with foreign partners.	2025-2027 гг.	Head of the Department of Education and PP Science Yugai V. V.
19.	Participation in competitions of the Ministry of Education and Science of the Republic of Kazakhstan and JSC "Center for Technology Commercialization" in the areas of industrial development	2025-2027 гг.	Head of the Department of PP Head of the Department of Education Yugai V. V.
20.	Improving the level of production practices, work on employment of graduates, improvement of dual education	2025-2027 гг.	Head of the Department of PP Yugai V. V.
21.	Razvitie kadrovogo rezerva [Development of the personnel reserve]. Ensuring participation in grants for young scientists. To hire 3 PhD students under the age of 35 years	2025-2027 гг.	Head of the Department of APP Yugai V. V.

Head of the APP Department

V.V. Yugay