

Azerbaijan Technical University

Action plan of the Institute of New Materials and Nanotechnologies

(for the 2024/2025 academic year)

	Work to be done	Executive	Period of performance	Indicator
1	Activities in the direction of preparing master's and PhD students			
1.1	Taking into account the existing problems of the industry, the formulation of research topics for PhD students' and master's dissertations being project based in the direction of University-Industry cooperation	Director of the institute and heads of relevant departments	January-February 2024	Covering the existing problems of the industry in the implemented projects
1.2	Promotion of admission to Ph.D.	Director of the institute and heads of relevant departments	January-June 2024	The number of masters applying for admission to doctoral studies
1.3	Organization of seminars and trainings for master's and Ph.D. students	Director of the institute and heads of relevant departments	January-December 2024	Number of students involved
1.4	Organization of travel of students studying in specialized departments to relevant production enterprises and meetings with representatives of production enterprises	Director of the institute and heads of relevant departments	January-December 2024	Number of masters employed or doing research in the relevant field
1.5	Organization of meetings-seminars with AzTU graduates who have achieved success in their fields of master's, PhD students, and teaching staff	Director of the institute and heads of relevant departments	January-December 2024	Number of meetings-seminars and participants
1.6	Organization of	Director of	January-December	Number of

	meetings-seminars with foreign specialists who have achieved success in their field of master's, doctoral students and teaching staff	the institute and heads of relevant departments	2024	meetings-seminars and participants
1.7	Conducting modeling, programming and simulation-calculation trainings, which are appropriate for use in the execution of master's and doctoral theses, as well as in obtaining engineering solutions	The staff is made up of the director of the institute and professors of relevant departments	January-December 2024	The number of listeners produced as a result of the training
2	Activities in the direction of organization of scientific-research works, implementation of projects, receiving and dissemination of results			
2.1	In accordance with the priority scientific research directions of AzTU, the determination of current, practically important directions and topics for the relevant specialty departments and the organization of drafting groups	Director of the institute and heads of relevant departments	January-December 2024	Directions, topics and numbers of organized Project groups
2.2	Coordination of scientific research works on relevant departments, organization of regular seminars and trainings with the aim of increasing the work of publishing the results of the research carried out by the professors and teaching staff in scientific publications and raising the scientific indicators.	Director of the institute and heads of relevant departments	January-December 2024	Seminars, trainings and numbers of participants

2.3	To design and develop high-tech materials, processes and devices aimed at the needs of industry and to design new materials with high physico-chemical and mechanical properties	Employees of the institute	January-December 2024	The number of works performed in this direction
2.4	Organize the formation, preparation and implementation of bilateral or multilateral military, defense and civil local and international grant projects aimed at the needs of public and private industrial organizations	Employees of the institute	January-December 2024	Works performed in this direction
2.5	To organize the involvement of experts working in AzTU Institutes, departments and laboratories, as well as in other scientific organizations, in local and international projects	Director of the institute and heads of relevant departments	January-December 2024	Numbers of specialists involved
2.6	To organize the acquisition of patents of tested military, defense and civilian strategically important materials, equipment and devices and their realization in accordance with the legislation	Employees of the institute	January-December 2024	Works and patents performed in this direction
2.7	Establishing relations with agencies, universities, institutes, laboratories, public and private industrial organizations and international scientific institutions under various ministries in Azerbaijan	Employees of the institute	January-December 2024	Institutions and structures created in response
2.8	To support the	Employees	January-December	Number of

	publication of scientific articles in journals included in the Web of Science (WoS) and Scopus databases	of the institute	2024	published articles and indexing system included
2.9	Dispatch of scientific personnel of the Institute to foreign countries and leading institutions for training, seminars and conferences	Director of the institute	January-December 2024	Number of participants in conferences, seminars and trainings
2.10	Bachelor's, master's and doctoral studies at AzTU To train professional personnel who have creative thinking, research and management abilities that meet modern requirements in the field by providing services for the selection and involvement of talented students studying at the levels of scientific research	Employees of the institute	January-December 2024	Works performed in this direction
3	Preparation of a report reflecting the annual activity of the institute	Director of the institute	December 2024	