



PHYSICAL FACILITIES FOR INTERDISCIPLINARY RESEARCH TEAMS



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Physical facilities for interdisciplinary research teams

Nakhchivan State University (NDU) provides specialized laboratories and research centers within the university, as well as technological infrastructure used in collaboration with industrial partners, to support the activities of interdisciplinary scientific research groups. These physical facilities were created with the aim of stimulating collaboration and applied research across different academic fields.

Interdisciplinary research infrastructure within the university

The scientific infrastructure of NDU consists of specialized laboratories and research centers that bring together various scientific fields:

- Center for Phytotherapy and Apitherapy—an interdisciplinary platform that combines the fields of medicine, biology, pharmacy, and biochemistry. The center has modern spectrophotometric and chromatographic devices for the preparation and analysis of food additives and cosmetology products from natural raw materials.

<https://ndu.edu.az/fitoterapiyamerkezi>

- Scientific Research Laboratory of Optics and Electronics – combines the directions of physics, engineering, and technology, allowing for experimental study of the behavior of optical systems and electronic devices.

<https://ndu.edu.az/optikalab>

- Laboratory of Beekeeping Problems – integrates the fields of ecology, agrarian sciences, veterinary medicine, and biotechnology; carries out diagnostics of bee diseases; and provides scientific expertise on beekeeping products.

<https://ndu.edu.az/ariciliqlaboratoriyasi>

- UrekLab (Research Center for Heart and Blood Pressure Diseases) is equipped with medical devices such as ECG, EXO, Holter, and treadmill for conducting applied research in health sciences.

<https://ndu.edu.az/ureklab>



- Yusif Mammadaliyev Chemistry Laboratory – provides experimental facilities for electrochemical synthesis and nanomaterials research in the field of chemistry and life sciences.

<https://ndu.edu.az/kimyalaboratoriyasi>

In addition, the university's Innovation Center serves as the main physical space for researchers and students from various faculties to develop startup, engineering, and technological projects. In 2025, the Innovation and Digital Development Agency provided the center with modern ICT equipment, and this infrastructure has strengthened the development of interdisciplinary projects in areas such as artificial intelligence, software development, and digital health.

Research infrastructure shared with industry partners

The university's research capabilities are also expanded through industrial and institutional partnerships:

-Within the framework of cooperation with Azerishig, university researchers use the laboratories of the institution's Training and Innovation Center (ATIM) for joint research on energy and technological problems.

-Cooperation with Referans Medical Group provides students and researchers of the Faculty of Medicine with the opportunity to conduct research and practical activities in the laboratory and diagnostic medical base of the institution.

Conclusion

Thus, Nakhchivan State University provides an extensive physical research environment for interdisciplinary scientific research groups, encompassing both specialized laboratories and centers within the university and the technical infrastructure of industrial partners. This model strengthens the integration of various scientific fields, allows for applied research, and systematically develops cooperation between academia and industry.