

# Scientific directions and topics

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- Sorting via scientific directions (in accordance with the scientific directions of Ukraine)
- Sorting via Institute / Faculty

## Sorting via scientific directions (in accordance with the scientific directions of Ukraine)

Scientific directions (UA)	Institute / Faculty	Topics
Agricultural sciences and veterinary medicine	<a href="#"><u>Institute of Biology, Chemistry and Bioresources</u></a>	Land and land use monitoring
Biology and health care	<a href="#"><u>Institute of Biology, Chemistry and Bioresources</u></a>	<ul style="list-style-type: none"> <li>✓ Ecosystem services and management of landscapes</li> <li>✓ Metabolic changes under the influence of xenobiotics and their correction</li> <li>✓ Genome organization and mechanisms of adaptation in eukaryotes</li> </ul>
Humanities and arts	<a href="#"><u>Faculty of Foreign Languages</u></a>	Problems of translation and teaching
	<a href="#"><u>Faculty of History, Political Science and International Relations</u></a>	<ul style="list-style-type: none"> <li>✓ World history</li> <li>✓ History and culture of Ukraine</li> <li>✓ Archeology and ethnology</li> </ul>
	<a href="#"><u>Faculty of Pedagogy, Psychology and Social Work</u></a>	Professional training of teaching staff for music education institutions
	<a href="#"><u>Faculty of Architecture, Construction, Decorative and Applied Arts</u></a>	Immersive learning in art and design
	<a href="#"><u>Faculty of Physical Culture and Human Health</u></a>	<ul style="list-style-type: none"> <li>✓ Quality of life in an inclusive environment</li> <li>✓ Innovative technologies in the motor activity of young people</li> <li>✓ Supporting the physical health of young people</li> <li>✓ Methods of physical rehabilitation</li> </ul>

	<a href="#"><u>Faculty of Philology</u></a>	<ul style="list-style-type: none"> <li>✓ World Literature</li> <li>✓ History and culture of Ukrainian literature</li> <li>✓ Romanian and classical philology</li> <li>✓ Modern Ukrainian linguistics</li> <li>✓ Worldview and axiological bases of inclusion</li> </ul>
Mathematical sciences and natural sciences	<a href="#"><u>Faculty of Mathematics and Computer Science</u></a>	<ul style="list-style-type: none"> <li>• Evolutionary equations in countably normalized spaces</li> <li>• Differential functional equations of natural processes</li> <li>• Topological and topological vector spaces</li> </ul>
	<a href="#"><u>Institute of Biology, Chemistry and Bioresources</u></a>	Inorganic materials for sensors and applications
	<a href="#"><u>Institute of Physical, Technical and Computer Sciences</u></a>	<ul style="list-style-type: none"> <li>✓ Photovoltaics, semiconductor crystals and thin films</li> <li>✓ Functional materials and nanotechnologies</li> <li>✓ Cyber security</li> <li>✓ Signal processing</li> <li>✓ Radio engineering applications and the Internet of Things</li> <li>✓ Data science</li> <li>✓ Optics for diagnostics of phase-inhomogeneous mediums</li> <li>✓ Optics, spectroscopy and microscopy</li> </ul>
Social science	<a href="#"><u>Faculty of Geography</u></a>	<ul style="list-style-type: none"> <li>• Ecological tourism</li> <li>• Tourist management</li> <li>• Geographical and regional studies</li> <li>• Monitoring of land and natural resources</li> <li>• Mapping, geocological monitoring</li> <li>• Environmental and economic assessment of natural resource potential</li> <li>• Water resources research</li> <li>• Historical and geographical studies</li> <li>• Landscapes and agroecosystems and global climate change and anthropoppression</li> </ul>

	<a href="#"><u>Faculty of Economics</u></a>	<ul style="list-style-type: none"> <li>✓ Electronic business, digital economy, social responsibility of business, economic security of economic entities</li> <li>✓ Economic-mathematical and computer-information modeling of economic and ecological-economic processes and systems</li> <li>✓ Processes of ecologically and socially balanced development of economic systems</li> <li>✓ Sustainable economic development</li> <li>✓ Business management</li> <li>✓ Development of the financial system</li> </ul>
	<a href="#"><u>Faculty of History, Political Science and International Relations</u></a>	<ul style="list-style-type: none"> <li>• International political relations</li> <li>• Political processes and public administration</li> </ul>
	<a href="#"><u>Faculty of Pedagogy, Psychology and Social Work</u></a>	<ul style="list-style-type: none"> <li>✓ Teacher education</li> <li>✓ Norms of inclusive education and social work</li> <li>✓ Psychology of the modern family</li> <li>✓ Psychology of self-realization of the individual</li> </ul>
	<a href="#"><u>Faculty of Philology</u></a>	Actual issues of mass communication
	<a href="#"><u>Faculty of Law</u></a>	<ul style="list-style-type: none"> <li>• European law</li> <li>• Forensics and criminal law</li> <li>• Protection of human rights</li> <li>• Private law and European integration</li> <li>• Procedural law</li> <li>• Public law</li> </ul>
Technical sciences	<a href="#"><u>Faculty of Mathematics and Computer Science</u></a>	Mathematical and computer modeling of dynamic processes
	<a href="#"><u>Institute of Physical, Technical and Computer Sciences</u></a>	<ul style="list-style-type: none"> <li>✓ Computer information systems for medicine</li> <li>✓ Applied application of thermoelectricity</li> </ul>

	<p><a href="#"><u>Faculty of Architecture, Construction, Decorative and Applied Arts</u></a></p>	<ul style="list-style-type: none"><li>• Research and conservation of UNESCO cultural heritage sites</li><li>• Formation of building materials of ultra-high strength and density</li><li>• Non-destructive diagnostics of building materials</li><li>• Engineering protection of industrial facilities</li><li>• Architecture and urban design</li><li>• Integrated urban development and planning</li></ul>
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