



**A THINKING, REFLECTIVE, GLOBAL
AND TRANSFORMATIVE UNIVERSITY**



COLOMBIA

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UAN
UNIVERSIDAD
ANTONIO NARIÑO



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ORGANISATION

Overview

The Universidad Antonio Nariño (UAN) was founded in 1976 with the mission to democratize knowledge by expanding higher education access and inclusion, as well as promoting equal opportunities. The UAN was the first university to develop an inclusive educational project aimed at a broad sector of the population in particular at those coming from socially and economically deprived communities. Subsequently, the UAN developed into a comprehensive institution with multiple campuses throughout the country, and is currently present in 26 municipalities. This represents a great institutional strength, which reiterates that UAN is a university with national presence and a regional commitment.

Within its Institutional Development Plan (IDP) 2017-2021, the UAN has defined the following focus: to be **inclusive, innovative, excellent in its processes, socially and environmentally responsible and regionally positioned**. As a result, the University is expected **to be a destination for any citizen of the world** who wants to develop higher education studies.

Over

16.000

students

Over

90%

low and middle-income students

Over

85.000

alumni

About

2.000

teaching and research staff

FACTS



- 1976** ▶ The formal constitution is signed establishing the Independent University of Colombia Antonio Nariño.
- 1980** ▶ The Department of Research, annex of the Academic Vice President Office, is created.
- 1981** ▶ The Colombian Math Olympiads are inaugurated.
- 1994** ▶ UAN changes its status from a university institution to a full fledged University.
- 1998** ▶ The University's first master's degree is created in Mathematics Education.
- 2005** ▶ The National Research Department (DNI), annex of The Office of the President, is created.
- 2007** ▶ The University is formally accepted as a member of the ATLAS Collaboration at CERN LHC.
- 2010** ▶ The National Research Department (DNI) becomes the Vice President Office for Science, Technology and Innovation (VCTI).
- 2012** ▶ The first two doctorates, Applied Science and Mathematics Education, are created.
- 2013** ▶ According to the Shanghai Ranking, which included Latin America, UAN is ranked 146th. In Colombia, it is ranked 6th, and is third among private universities.
- 2016** ▶ According to Webometrics and based on GS citations and impact the three best Colombian scientists are UAN researchers.
- 2017** ▶ UAN is recognized as one of the sixty first Latin American Universities and 6th in Colombia in the *Times Higher Education* Latin America University Rankings 2017.





Engineering

- Environmental
- Biomedical
- Civil
- Industrial
- Computing and Systems
- Technology in automotive mechanics
- Technology in industrial electromechanical maintenance (Distance)
- Mechanicatronics
- Electronics
- Mechanical
- Control and Industrial Automation
- Technology in industrial operations management (Distance)



Veterinary and Related Sciences

- Veterinary Medicine



Science

- Biochemistry



Education

- Social Sciences
- Spanish and English Languages
- Mathematics
- Theater and Dance



Health Sciences

- Medicine
- Nursing
- Dentistry
- Optometry



Economic and Administrative Sciences

- Business administration
- International trade
- Hotel management and ecological tourism
- Public accounting
- Economics
- Hotel management and tourism



Arts

- Architecture
- Visual Arts
- Technology in costume planning for performing arts
- Music
- Industrial Design
- Professional technician in costume making for performing arts
- Technology in logistics coordination of cultural events (Distance)



Social and Human Sciences

- Law
- Psychology
- Psychosocial Therapy



Doctorates

- Applied Science
- Mathematical Education
- Health Sciences



Masters

- Bioengineering
- Computer science and engineering
- Family law
- International economics (Virtual)
- Family mediation (Virtual)
- Sound art
- Education
- Mathematics education
- Innovation
- Tax management (Virtual)
- Animal welfare
- Biochemistry
- Engineering physics
- Instrumentation and automation
- Health economics (Virtual)
- Environmental geomatics
- Environmental hydrogeology
- Management and real estate development



Specializations

- Periodontics
- Orthodontics
- Electronic and biomedical instrumentation
- Mechanical design (Distance)
- Development of human potential in the organization (Virtual)
- Criminal law and criminal procedures
- Administrative law and administrative procedure
- Systems audit (Virtual)
- Geographic information systems
- Software engineering
- Financial management (Virtual)
- Audit and fiscal control (Distance)
- Public administration (Virtual)
- Actuary

INSTITUTIONAL HIGHLIGHTS

Outreach and Opportunity

The UAN has strived to provide access to higher education to a large segment of the Colombian population; it offers a technical program, 5 technology programs, 30 undergraduate programs, 14 specializations, 18 masters programs and 3 doctoral programs.

A solid network of academic programs has allowed the university to have a nationwide, proactive institutional impact. These include undergraduate and graduate programs that are taught using various approaches and utilizing all types of technological, innovative alternatives; these programs are consistent with the demands and trends of local, regional, national and international development.

To narrow the current educational gap in the country, the UAN has adopted an all-inclusive admission policy. By recognizing the potential of each applicant, the university strives to overcome educational limitations. With its numerous campuses nationwide, the university provides students access to higher education opportunities and offers different mechanisms of support and financing.

“We are present in remote areas such as Riohacha, Quibdó and Buenaventura”

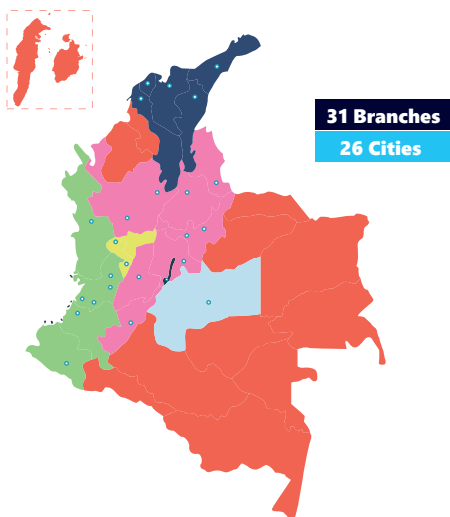
A University with regional presence

For the past 40 years, the university has established a nationwide network of campuses in 26 cities. The UAN is part of university, business, and state committees in each of the cities where it is present; this has given a better institutional positioning with relevant stakeholders at a regional and national level and has allowed to play a leadership role in decisions on strategic issues.

UAN's presence in remote areas such as Riohacha, Quibdó and Buenaventura allows participation in the implementation of projects in each of these regions. For example, the UAN is a founding member of the National Center for Science, Technology and Innovation for the Sustainable Productive Development of Biodiversity in Chocó (Bioinnova). This organization sets forth a national strategy for the development of Colombian biodiversity as an economically sustainable resource for local, regional and national communities; not only does this strategy have a national impact, it also impacts the planet. UAN's presence in



cities where educational options are limited, major cities, and key (either because of their geographical location or contribution to industrial development) regional municipalities has allowed the university to be relevant at both a national and regional level. UAN's regional campuses include the Caribbean Region, Pacific Region, Coffee Region, Andean Region, the Eastern Region and Ceres.



Caribbean Region

Puerto Colombia, Cartagena, Riohacha, Santa Marta y Valledupar.

Andean Region

Bogotá, Bucaramanga, Cúcuta, Duitama, Ibagué, Medellín, Neiva y Tunja.

Coffee Region

Armenia, Manizales y Pereira.

Pacific Region

Buenaventura, Buga, Cali, Cartago, Palmira, Pasto, Popayán, Quibdó y Roldanillo.

East Region

Villavicencio.

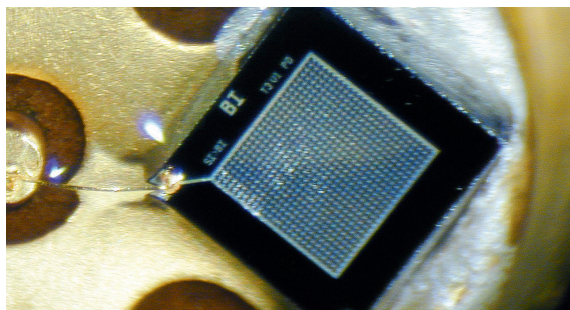
Research, Science and Technology at UAN

The UAN believes that a role of excellence can only be achieved if it is founded on scientific and technological research. For this purpose, the Vice President Office for Science, Technology and Innovation (VCTI) has the mission to ensure that UAN is recognized for its leadership and its development of new scientific and technological knowledge. This recognition is only possible by enabling innovation and problem solving at a local, regional, national and international level, by encouraging creativity, strategic partnerships, and providing guidance to continuously develop researchers.

The key to achieving excellence is to have qualified academics. The UAN goes to great lengths to ensure the attainment of outstanding staff. To this end, there are two strategies in place. The first strategy, which addresses the university's needs in the medium term, is the High Level Training Program in which professors are assisted to complete their doctoral studies; the second, and most immediate strategy is to hire professors that already hold doctorate degrees.

To achieve high-quality and relevant research, UAN works to create a network of national and international universities, research centers, and other institutions that build relationships of high added value. This will enhance our internal efforts through synergies, derived from interdisciplinary and intersectoral collaborations.

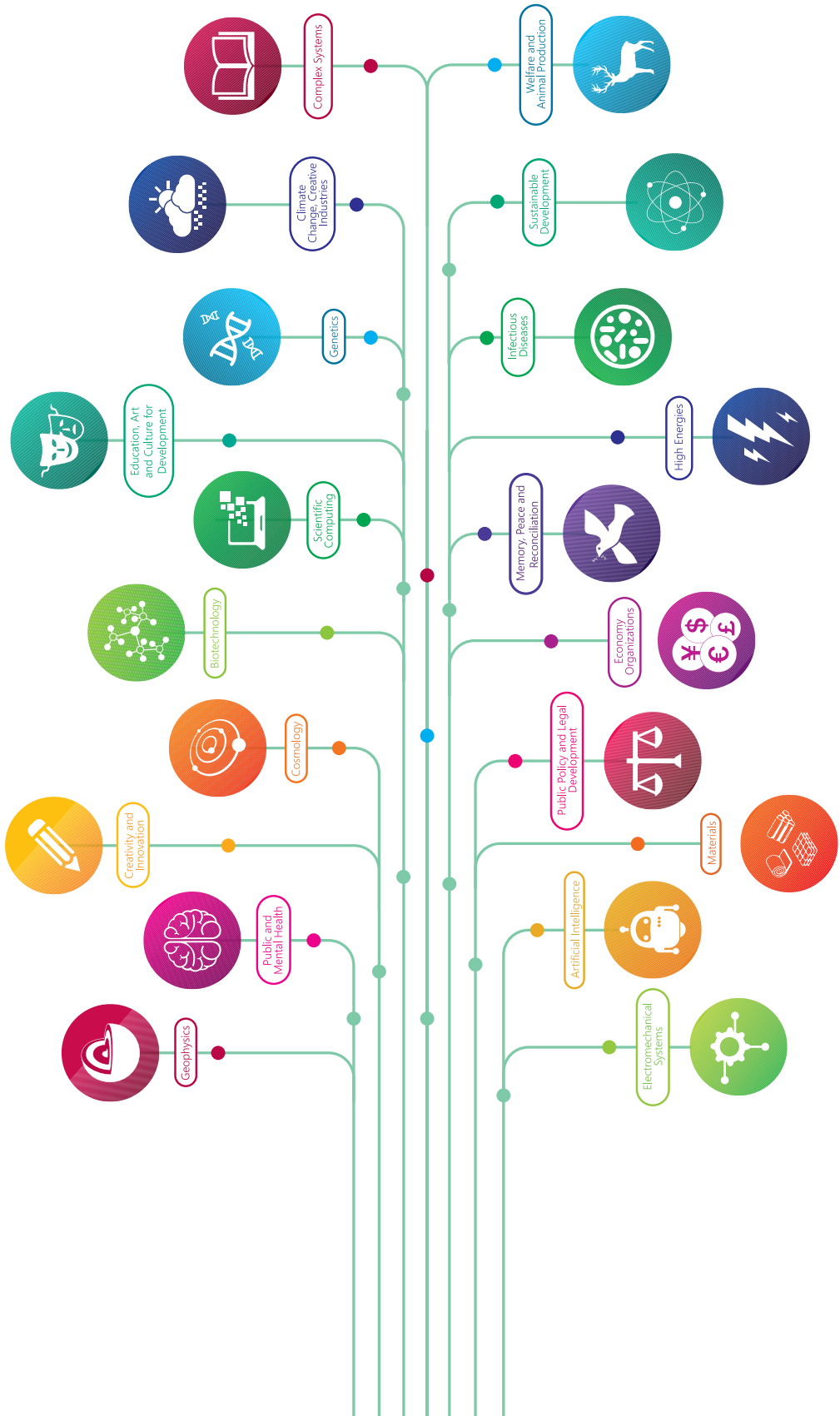
Some noteworthy scientific collaborators include the International Center for Physics, the Universidad de Antioquia, Sika - Colombia, the Universidad Nacional, the University of Oldenburg, the European Organization for Nuclear Research (CERN), Ghent University, Purdue University, Stony Brook University, Brookhaven National Laboratory, the GSI in Darmstadt (Germany), the Helsinki Institute of Physics (Finland) and the IFIC (Valencia).



The UAN is among the top 10 universities in Colombia in terms of international scientific production and research rankings. Based on the number of publications in Scopus, the UAN is currently ranked 7 among Colombian private HEIs. Moreover, according to the classification by the Scimago Group, in 2014, UAN was the country's third-leading university with the highest normalized impact, according to the number of references by other prestigious publications.

Recognizing the importance of education, research and innovation in the social and technological development of Colombia, the UAN has also been actively pursuing international collaboration and participation in research and development activities of international significance such as the collaborative "megascience" effort that led to discovery of the Higgs boson.

Research Groups



Research Groups

Arts

- City, Environment and Habitat Group
- Music and Human Development Group

Economic and Administrative Sciences

- Quality Group
- Innovation and Competitiveness Group
- Economic Studies and Analysis Center
- Accounting Advisory Research Group
- Public Accounting Research Group

Basic Science

- Fundamental and Applied Materials Research Group (GIFAM)
- Cell Biology, Functional Biology and Molecule Engineering Research Group
- Applied Biology, Materials Chemistry and Environmental Research Group
- Phylogenetic Research Group for the Study of Secondary Metabolites and their Derivatives
- Molecular Scientific Computing and Modeling Research Group
- Complex Systems Research Group. Basic and Applied Sciences Research Center (CICBA)
- Experimental High Energy Physics Group. Basic and Applied Sciences Research Center (CICBA)
- Elementary Particle Phenomenology and Cosmology Research Group. Basic and Applied Sciences Research Center (CICBA)
- Mathematics Education Research Group. Basic and Applied Sciences Research Center (CICBA)
- Geophysics Research Group. Basic and Applied Sciences Research Center (CICBA)

Social and Human Sciences

- IUSTITIA Group
- OPPINIO JURIS Group
- STATUS LIBERTATIS Group
- Hope and Life Group
- Complex System School Research Group
- Psychology Research Group (GRIPSI)
- Awareness Research Group
- University Cultures Research Group
- Performing Arts Didactical Group

Engineering

- Environmental Engineering Group (GRESIA)
- Energy and Materials Research Group (REM)
- GI Fourier Research Group
- Bioengineering Research Group
- Perception and Robotics Group (GEPRO)
- Bioinstrumentation and Control Research Group (GIBIO)
- Laboratory for Advanced Computational Science and Engineering Research (LACSER)

Health

- Biomedical Sciences Research Group (Grincibio)
- Oral Health Research Group
- Optometry Research Group
- Risk Management Research Group



Throughout its history, UAN has incorporated international action as part of its work, carrying out strategic initiatives that have driven its outlook and have allowed it to expand its vision of the international, including internationalization as a cross-cutting strategy that contributes to the excellence in the teaching-learning process, outreach and management. UAN wants to actively engage in an increasingly global environment that inspires local action by linking the teaching-learning processes with global dynamics and by generating an international culture at home.

Global Engagement and visibility

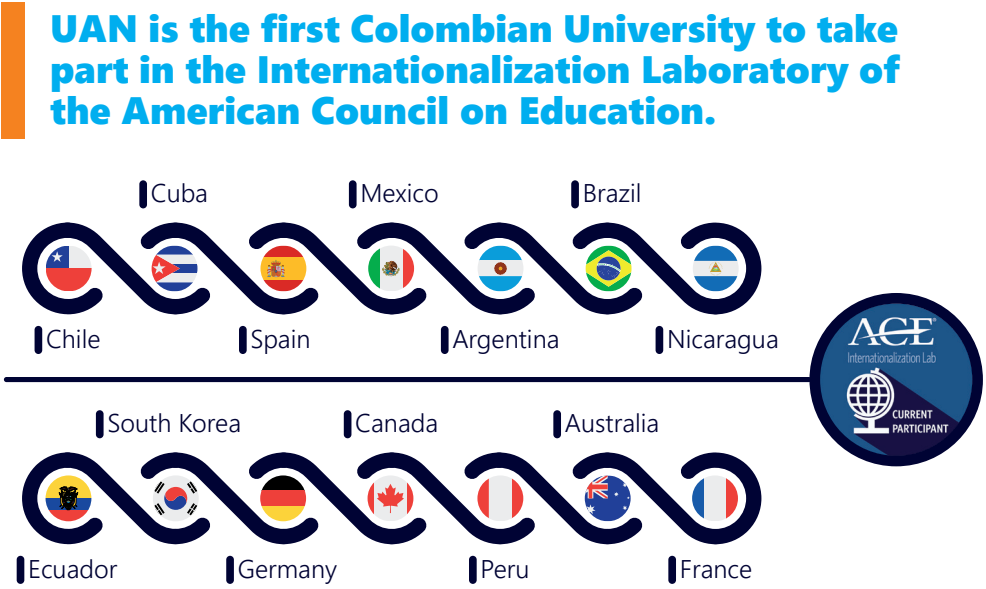
The University currently has more than 90 agreements with foreign universities from Germany, Argentina, Australia, Belgium, Brazil, Canada, Chile, Korea, Cuba, Ecuador, Spain, Italy, Mexico, Panama, Peru and the United States, which make it possible to implement various forms of collaboration, such as student and faculty exchange, joint research and publications, the exchange of publications and collaboration between curricular programs.

UAN's other strategic alliances include those related to participation in various networks, associations and international consortia, which make it possible to strengthen, highlight and fund research, and promote teacher and student exchanges, as well as other forms of collaboration.

UAN is active in associations as AUIP, UDUAL, AUAL-CPI, Universia and Association of University Research Parks, among others. In 2016 Dr. Marta Losada, UAN's President, was elected as member of the Board of the International Association of Universities (IAU) and Vice President of the Colombian Association of Universities (ASCUN) – the first woman to be Vice President of ASCUN in its 60 years of history.

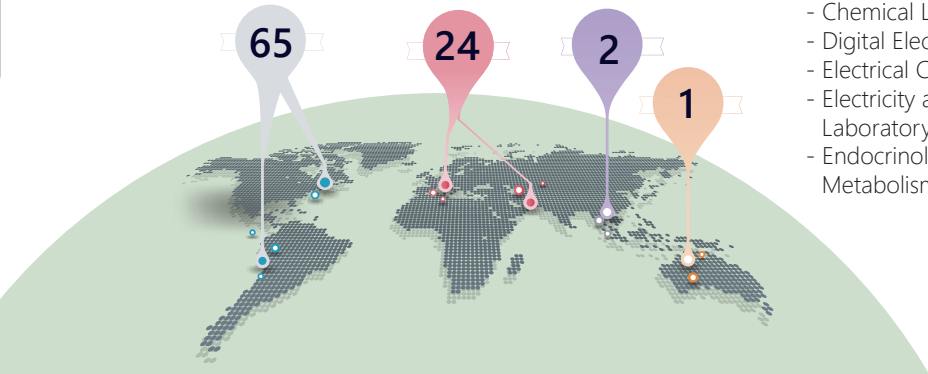
The University has partnered (under agreement) with foreign universities in a project to provide internationalization to a large number of students. This project consists of streaming and video conferencing courses between UAN and affiliated international universities. The internationalization component of UAN's curriculum represents another important strategy (content, methodologies, literature, international electronic resources, language courses, and courses or seminars given in other languages).

UAN is carrying out one of its institutional strategic projects: the Internationalization Laboratory (UAN INT-LAB) with the guidance of the American Council on Education (ACE). The UAN INT-LAB is a space for reflection and collective construction and action, from which the UAN is developing a review of the institutional internationalization, its policies, plans and strategies in order to make a qualitative leap in its internationalization and global engagement processes. This is being done under the direction of a group called "Leaders UAN INT-LAB" supported by a task force organized in seven dimensions of the internationalization: (1) Articulated institutional commitment, (2) Administrative leadership, structure and staffing, (3) Curriculum, co-curriculum and learning outcomes, (4) Faculty policies and practices, (5) Student mobility, (6) Collaboration and partnerships, (7) Science, Technology and Innovation.



The UAN has 104 laboratories that have research and teaching purposes, such as the following:

- Analog Electronic Laboratory
 - Arts Laboratories
 - Automotive Mechanics Laboratory
 - Biology Laboratory
 - CAD / CAM Laboratory
 - Cartography Laboratory
 - Cell Culture and Proteins Laboratory
 - Clinical Research Laboratory
 - Clinical Simulation Laboratory
 - Communications Laboratory
 - Chemical Laboratory
 - Digital Electronics Laboratory
 - Electrical Circuits Laboratory
 - Electricity and Electronics Laboratory
 - Endocrinology and Metabolism Laboratory



- Environmental Engineering Laboratory
- Fluid Mechanics and Thermodynamics Laboratory
- Fluid Laboratory
- Genetics and Molecular Biology Laboratory
- Immunology Laboratory
- Industrial Engineering
- Industrial Mechanics Laboratory
- Industrial Safety Laboratory
- Instrumentation and Control Laboratory
- Materials and Thermal Treatments Laboratory
- Material Resistance Laboratory
- Mechanical Physics Laboratory
- Metrology Laboratory
- Optical Laboratory
- Physiology Laboratory
- Pneumatics and Hydraulics Laboratory
- Psychology Laboratories
- Physics Laboratory
- Robotic Laboratory
- Simulation Laboratory
- Specialized Software Laboratory
- Thermal Machines Laboratory
- Vibrations and Waves Laboratory

Olympiads, a program of excellence with national and international impact

A highlight in the university's history is the promotion and development of the Colombian Olympiads in Science, Mathematics, Physics, Computer Science, Biology and Astronomy. For the past 35 years, the Olympiads has recognized and encouraged talented young Colombians to develop their scientific knowledge in these fields. The tests competitions, workshops, and seminars created by the university for this program include students of primary, secondary and higher education. The Olympiads are held nationally with the participation of Colombian students; another version, the Iberoamerican Olympiads was created to include international students. In July of 2013, the Mathematical Olympiads celebrated its 54th venue the event was organized by the Universidad Antonio Nariño in the city of Santa Marta. The Mathematical



Olympiads attracted more than 1,000 attendees from 97 countries. Preparations are now beginning for the 22nd Iberoamerican Physics Olympiads in 2017, and the 56th International Physics Olympiads in 2025.

Each year more than

110.000

young people participate in the Mathematics, Physics, Science, Computing and Astronomy Olympiads.



OLYMPIADS

- SCIENCE
- MATH
- PHYSICAL
- COMPUTING
- ASTRONOMY
- BIOLOGY

Usme Eco-Technology Park

The University will create an environment where relationships between academia, government and business maximize the production of wealth, based on scientific and technological knowledge, and in harmony with nature.

The Usme Ecological Technology Park (PTEU) will be a space that embodies the highest standards of quality and functionality, alongside affordable prices, for companies to enhance their capacity for innovation and development and, consequently, their competitiveness. PTEU is designed over an area of 271 hectares, of which 56% is dedicated to rural purposes, specifically a forest reserve, a lab for the recovery of native species of flora and fauna, and labs for the implementation of renewable alternative energies.

As a knowledge center, part of its activities will be devoted to outreach, through recreational activities that promote a close relationship with nature, as well



as the establishment of natural boundaries that nurture the harmonious coexistence of rural and urban landscapes. The rest of the site will house activities that are aimed at improving quality of life and developing knowledge as a source of transformation. The park is designed as a sustainable urban landscape project that is respectful of the environment. It is aligned with an ecological urban development model, including the following spaces, designed with bio-architecture in mind, thereby ensuring the best use of natural resources:

- University hospital
- Cultural and art centre
- Center for the generation and transfer of technology
- Convention and business center
- Complex for high-tech research
- University center for agribusiness and biotechnology
- University campus
- Tunjuelo river linear park
- Housing for teachers and other social housing
- An area for state provision of education and recreation

As a Technology Park, it will bring together efforts from academia, centers for research, development and transformation of new technologies, business incubators, SMEs in the sector, centers for research and transformation of alternative energy sources, and the telecommunications development center in the southeast of the country.



Community Services

The social relevance of the UAN's activities can be understood in the context of the University's commitment to bring about and promote positive change in all relevant aspects of people's lives and in the various educational, industrial and cultural sectors. Higher education as a strategy for development, and training as means for the practical exercise of disciplines, must be incorporated conceptually and functionally into the process of local, regional and global change, in order to promote and improve the population's quality of life.

Dental Clinics

At each campus where the University offers its Dentistry program, it has dental clinics that provide the community with a high quality service at affordable costs. In the cities of Armenia, Palmira, Neiva, Bogota, Bucaramanga, Cúcuta and Villavicencio, the clinics have specialists, adequate space and infrastructure providing patients with peace of mind and follow up for each of their treatments.

Psychological Care Centers (CAP)

These care centers are part of the Psychology program, and their mission is to provide intervention, prevention and promotion services in mental health, as well as psychological evaluation and counseling.

Veterinary Clinic

At the Popayán and Bogota campuses, the University makes use of its Veterinary Medicine program to offer the community its veterinary clinics, which specialize in small animals.



Its services include outpatient care, vaccination, soft tissue and orthopedic surgery, dental prophylaxis, and imaging (digital radiology, ultrasound, doppler and echocardiography), clinical laboratory tests, electrocardiography, blood pressure measurement, and a mobile veterinary clinic.

Schools

Moreover, the University has two schools of its own (Colegio del Bosque Bilingüe and Colegio de la UAN, in Usme), in which degree students perform investigative teaching internships, as well as recreational activities. These, as well as other schools throughout the country, are internship destinations for graduates in training.





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