



# OBJETIVOS DE DESARROLLO SOSTENIBLE

**9** INDUSTRIA,  
INNOVACIÓN E  
INFRAESTRUCTURA

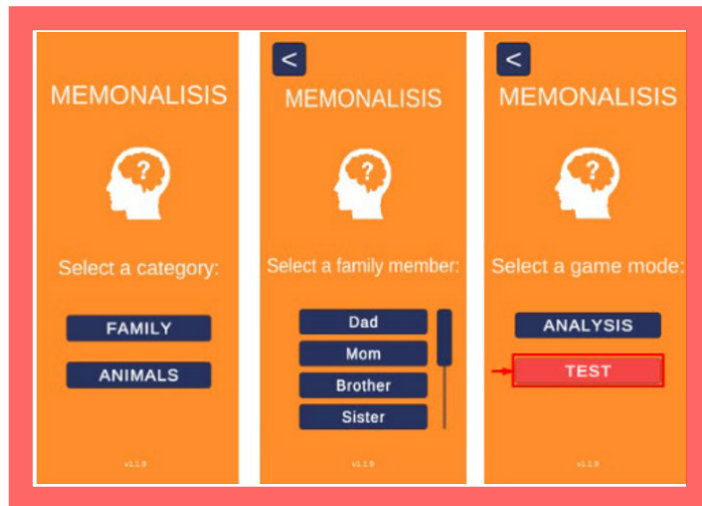




DevsCrew is the community of developers from the business accelerator StartUPC, co-created in partnership with Microsoft. The aim was to enhance professional skills and promote the involvement of future Chief Technology Officers (CTOs) in the startup ecosystem through training provided from January to August 2022 in an online modality. 100% of those enrolled were students or alumni of UPC.



# Technological Solution for Children with ADHD



Students of the Information Systems Engineering program developed an application involving the creation of serious games for the assessment of children with Attention Deficit Hyperactivity Disorder (ADHD). The project was implemented at a Health Center in the district of San Martin de Porres in 2022. The objective of the project was for the application to serve as a tool for diagnosing children with ADHD, using augmented reality and making it more engaging for them by incorporating serious games into the assessments.



# Phukuy Project: IOT Spirometer for COVID Analysis



**Proyecto Phukuy:**  
**Espirómetro IOT para análisis  
del COVID**

**Universidad Peruana de Ciencias Aplicadas (UPC)**

**Ponente(s):** M.S.C. Ing. Sergio Salas Arriarán



The public was presented with an exposition on the design of the “Proyecto Phukuy: Espirómetro IOT para el Análisis del COVID”, developed at UPC in 2020. The event was led by Dr. Carlos Raymundo and involved a team of 8 engineers. The participating audience expressed satisfaction with the project’s progress and its implementation in Peru.

# Research Resources Site



The Research Resources Site is a platform primarily aimed at the academic community (undergraduate, EPE, and postgraduate students and faculty members), as well as research faculty at UPC.

It provides access to various electronic resources such as databases of books, journals, videos, audio-books, and more. The platform contains resources subscribed by the university and others that are openly accessible to the general public.

To access the platform, please visit the following link:

<https://biblioteca.upc.edu.pe/az.php>



# Protagonists Route



The Protagonists Route initiative, developed by UPC Entrepreneurial Initiative Unit, consisted of a series of events held throughout Peru with the aim of promoting entrepreneurship and social innovation among the youth.

As part of these events, training sessions for entrepreneurs were conducted in Puno, Cusco, Trujillo, Junín, Iquitos, and the constitutional province of Callao.

In 2022, there were more than 100 applications from 19 cities in the north, central, south, and eastern regions, with Lima and Cusco having the highest participation. Thanks to this activity, young entrepreneurs will be change agents who will transform the country.





# Support for the Protagonistas del Cambio Program



**Ellos son nuestros**  
**PROTAGONISTAS**  
**DEL CAMBIO UPC 2022**



MARIA DEL CARMEN CECILIA MAYCOL GARCIA ELIZABETH JAVIER DANIEL YANQUI RICARDO ORPEQUE  
LESTER PHILIPP VARGAS MELISSA RAMOS PERCY RODRIGUEZ ESTEFANIE RENTERIA CHARLES ZIVALLIS

• Este 26 de agosto se anunciaron a los 10 ganadores del programa de sostenibilidad de la UPC.

## UPC buscó a jóvenes emprendedores sociales EN TODO EL PERÚ

Universidad Peruana de Ciencias Aplicadas – UPC apuesta por los jóvenes agentes de cambio social con programa de sostenibilidad Protagonistas del Cambio UPC.

REDACCIÓN CONTENTLAB  
10 de octubre de 2022

El deseo de transformar el Perú es el motor que impulsa cada vez a más jóvenes a buscar soluciones ante una realidad injusta. Son jóvenes que, dejando de lado su propio beneficio económico, pasan a la acción con emprendimientos o programas innovadores que abordan las distintas problemáticas del país. Un gran esfuerzo que, desde hace 12 años, **apoya y promueve la Universidad Peruana de Ciencias Aplicadas** a través del programa de sostenibilidad que impulsa la innovación social: **Protagonistas del Cambio UPC**.

El Dr. Edward Roekaert, rector de la casa de estudios, explica que esta iniciativa busca potenciar y sacar adelante las innovaciones sociales de jóvenes entre 18 y 29 años que cuenten con al menos seis meses de funcionamiento.

“Un protagonista del cambio, es quien se pone el trabajo al hombro y hace un esfuerzo por transformar una realidad para contribuir a la mejora de la calidad de vida en su comunidad. Pone toda su energía en poder mejorar aspectos sociales y ambientales principalmente, pero, además, lo hace con innovación. Esto último es lo que buscamos potenciar”, acota Roekaert.

Por otro lado, Javier García-Blásquez coordinador del programa **Protagonistas del Cambio de la Universidad Peruana de Ciencias Aplicadas - UPC**, indica “son los jóvenes quienes realizarán el cambio que necesitamos. Por ello, desde la UPC nos avocamos a encontrar a los talentos que, con innovación, generan cambios positivos en sus comunidades. Identificamos, formamos y potenciamos sus habilidades para que, a su vez, impacten de manera social en el futuro”.

Conoce a los **10 ganadores de esta edición**, en la que se presentaron **más de 200 participantes de 19 regiones del país**.

Students from the Administration and Human Resources program conducted social responsibility practices by providing training and coaching to the social entrepreneurs participating in the Protagonistas del Cambio program.

Protagonistas del Cambio is a UPC social responsibility program in operation for 13 years. It provides training, recognition, visibility, and education.

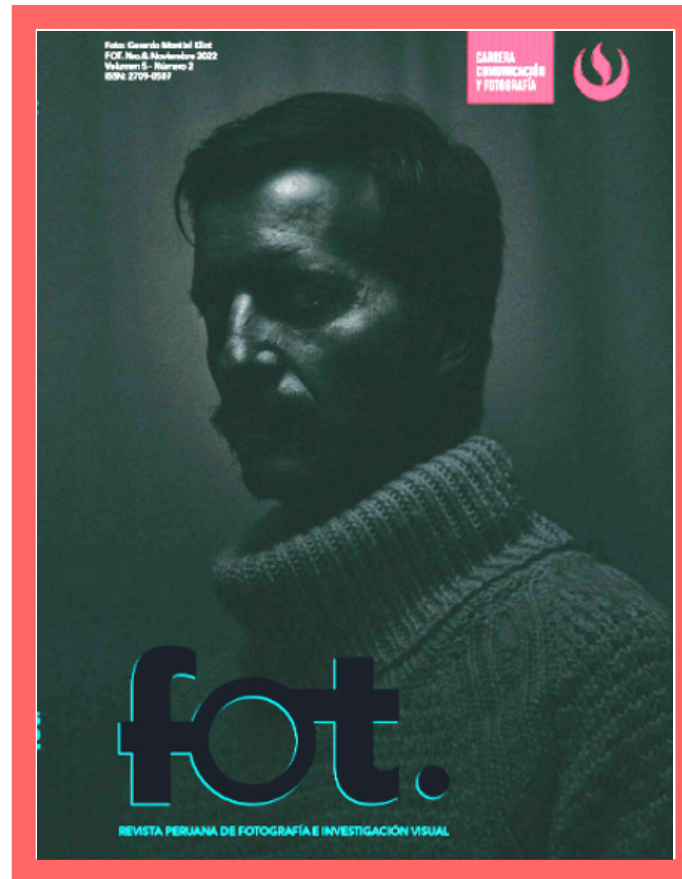
It enhances the competencies of entrepreneurs through continuous training and advice with an innovative focus.

# Fot Magazine



In 2019, the Communications and Photography program launched Fot magazine with the objective of communicating, researching, and promoting photography and visual research to students, academics, and the general public.

In 2022, issues 7 and 8 of the magazine were presented. In addition, the lecturer and editor Franz Krajnik was in charge.





# International Congress of Educators 2022



From February 15 to 17, 2022, the XXII International Congress of Educators took place. This event was organized by the Education and Learning Management program and aimed to bring the latest trends and innovations in Education Sciences based on scientific evidence to Peru for discussion, understanding, and subsequent application in designing proposals for innovation in educational centers.

The conferences were classified into six training topics: Educational Management, Curriculum and Teaching, Technologies for Learning, Multidisciplinary Education, Teacher Training and Leadership, and Psychology and Attention to Diversity. Teachers from Basic and Higher Regular Education from institutions in Lima and provinces participated.



# Document Digitalization Service



The Document Digitization Service was an activity aimed at students enrolled in thesis courses, thesis students, and professors. It was integrated with the content manager (Alma) and the Primo discoverer. The requested content was sent to the email and access was granted after authentication with institutional credentials.

This service aimed to facilitate the research process by supporting the development of research papers for student theses and professors. It was provided for academic purposes in accordance with the Copyright Law (D.L 822). Additionally, the service aims to reduce the printing of documents and books on paper to contribute to environmental impact reduction, as only copies requested by bookstores are printed and only when they are requested.



It was promoted through social media, and the information can be found on the Library Portal.

<https://biblioteca.upc.edu.pe/portal/digitalizacion-de-documentos>

Guía de acceso: [https://biblioteca.upc.edu.pe/Id.php?content\\_id=68954785](https://biblioteca.upc.edu.pe/Id.php?content_id=68954785)

# International Conference



Between April and September 2022, the Civil Engineering program at UPC, in partnership with educational institutions such as Universidad Viña del Mar, Florida International University, University of Central Florida, and Vlerick Business School, held 05 international conferences in a virtual format. The objective was to train students on cutting-edge topics and enhance the international scope of the program.

The topics covered included:

- Operational quality management in roadworks
- Top 5 skills to boost your career
- Traffic engineering, and intelligent transportation systems, among others.

A total of 3133 students attended.



# Engineering for Innovation Course



From March to June 2022, the Business Management Engineering program offered the course “Engineering for Innovation” across UPC’s multiple campuses. The aim was to propose innovative solutions to problems related to the Sustainable Development Goals (SDGs) and issues identified within companies.

During the course, students identified problems or needs, depending on the type of issue related to the SDGs, either without a specific company or based on a problem identified within a company. They gathered and deepened their knowledge of the problem.

To generate innovative solutions, they conducted a preliminary study of the state of the art to assess the degree of innovation. They then applied a combination of brainstorming, Design Thinking, and trending technologies. The solutions were innovative and based on some technological component.



# Student Training



Throughout 2022, the Mining Management Engineering program at UPCA conducted various training sessions, both virtual and in-person, with the objective of:

1. Strengthening theoretical-practical knowledge in Responsible Mining
2. Enhancing knowledge in research projects
3. Reinforcing knowledge in mine planning and surface mining using DATA MINE software, and
4. Updating knowledge related to Social Responsibility

In total, 861 students participated.



# Educational Intranet with Virtual Classroom



The Electronics Engineering program implemented the project “Intranet Educativa con Aula Virtual,” benefiting approximately 70 children from CEI 639 San José María Escriba Balaguer, located in the district of San Juan de Roldan in Cañete.

The initiative aimed to improve the teaching-learning conditions of the early childhood education center by providing an educational intranet with a virtual classroom that organizes educational content. Additionally, in partnership with a telecommunications operator, a connection was established to enable online content updates.

The initiative is ongoing, and activities for the year 2023 have already been planned.





# Webinars EPG

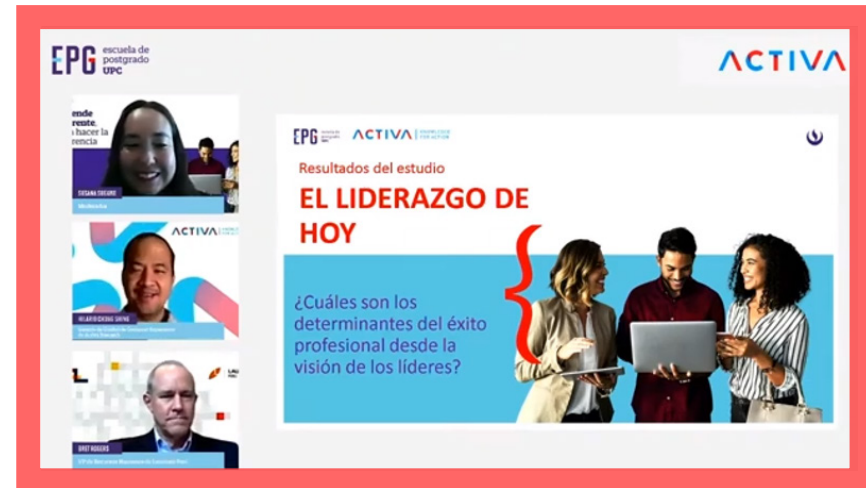


Throughout 2022, the Academic Directorate of the Postgraduate School conducted webinars related to topics in commercial management, health and safety at work, construction, human factors, digital transformation, among others.

The objective was to provide valuable content on trending topics related to the different academic areas of the Postgraduate School.

These events featured presentations by national and international experts, as well as speakers from external entities such as CEGH, CATAPULTA, ACTIVA, and RESEARCH. .

These events benefited 1,022 individuals, including students, alumni, the UPC community, faculty members, and the general public.



# StartUPC Experience



Between January and August, the Directorate of the Business Initiative Unit conducted the StartUPC Experience in an online format. This is a program by the Business Accelerator, StartUPC, which connects UPC students with startups in the portfolio to contribute their knowledge and skills to enhance and scale Peruvian ventures in the national and international markets.

The objective of the initiative was to create a joint effort between startups and UPC students, from terms sixth to tenth, to create an agile work experience.



# Business Advisory Program 22-1



During the semester 2022-1, the Entrepreneurial Administration and Management program conducted the Business Advisory Program 22-1 in a virtual format.

The aim was to provide advice to businesses owned by UPC students to improve their performance and efficiency. In total, 12 companies were beneficiaries.



# Research Group of the Administration and International Business Program



The Research Group is an initiative promoted by the Administration and International Business Program with the aim of creating high-impact research articles to be included in editorial boards and/or peer-reviewed scientific databases.

As part of this initiative, constant training and mentoring are provided to students, faculty members, and graduates of the Administration and International Business (Undergraduate) and International Business (EPE) programs.

The group's activities are focused on Goal 4 of the Sustainable Development Goals promoted by the United Nations.

