Our Milestones

- 2011: UTEC obtains its Operating License from the Peruvian Government.
- 2012: UTEC starts activities and a Letter of Intent is signed with Purdue Polytechnic.
- 2014: UTEC launches UTEC Ventures and the Executive Education Program.
- 2015: UTEC's new campus opens its doors.
- 2016: 1st University to obtain public institutional operating and R&D licenses.

- 1,600 Undergraduate Students
- 25:1 Student Faculty ratio
- 100% of UTEC undergrads do an internship
- 150 Industry partners
- 67 International Scientific Publications
- 8 patents
- 36 Funded Projects
- 7 Graduates

Transforming Higher Education through 21st Century Polytechnic Ideals
Why a new university?

A whole new engineer

Generate a disproportionate effect on society through education

Transforming Higher Education through 21st Century Polytechnic Ideals
...with a collateral effect

A SPECIAL BILLBOARD FOR A SPECIAL CAUSE: TO CHANGE THE WORLD.

THE UNIVERSITY OF ENGINEERING AND TECHNOLOGY BELIEVES THE WORLD CAN BE CHANGED THROUGH ENGINEERING. TO DRAW STUDENT ATTENTION DURING THE UTEC ARCHITECTURE PROGRAM, WE DESIGNED A BILLBOARD THAT CHALLENGED OUR WORLD, EVEN IF JUST A LITTLE.

TOGETHER, THE UNIVERSITY AND THE UNIVERSITY DOMESTICATED AN OUTDOOR IDEA THAT OFFERS A REAL SOLUTION TO A REAL PROBLEM: THE LACK OF DRINKING WATER HERE IN PERU.

IN LIMA, THE WORLD'S SECOND LARGEST DESERT CAPITAL, THERE IS VERY LITTLE RAIN, BUT THE ATMOSPHERIC HUMIDITY IS ABOUT 90%.

THE IDEA OF putting THIS MATERIAL INTO DRINKING WATER CHANGED THE LIVES OF HUNDREDS OF FAMILIES AND ATTRACTION THE ATTENTION OF YOUNG STUDENTS. AND NOW THAT ENGINEERING CAN HELP THEM MAKE A DIFFERENCE IN THE WORLD.

HOW IT WORKS:

1. This material into drinking water
2. Clean water
3. This material into drinking water
4. Clean water
5. This material into drinking water
6. Clean water
7. This material into drinking water
8. Clean water

MORE THAN 9450 LITERS OF POTABLE WATER IN JUST 3 MONTHS.

WE WILL CONTINUE CHANGING THE WORLD THROUGH ENGINEERING.
Our pillars for success

The university was launched in 2012 as a non-for-profit organization under the premise of giving Peruvian youth access to a world-class and future-proof educational model in Engineering, regardless of each individual’s socioeconomic status, and only dependent on his or her talent, disposition, creativity and intellectual capacity.
A NEW CURRICULA SINCE 2017

Transforming Higher Education through 21st Century Polytechnic Ideals
Learning Theory + Educational Neuroscience = How the brain learns

"College is a place where a professor's lecture notes go straight to the students' lecture notes, without passing through the brains of either."
~ Mark Twain

Digital Revolution + Advanced / Exponential Technologies → Ubiquitous & Lifelong Learning
To cause a disproportionate effect in society by educating a new generation of holistic and future-proof engineers.

1. Integral training in STHEAM
2. Active Learning Methodologies
3. State-of-the-art laboratories, tools and equipment
4. Passion for innovation and problem solving

Engineers as Global Change Agents
### 1. A fully integrated engineering-relevant program

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
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</thead>
<tbody>
<tr>
<td>Common Fundamentals (including Computer Science)</td>
<td>Engineering Core (shared and specific)</td>
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#### Competencies:
1. Deep technical, disciplinary and interdisciplinary knowledge
2. Analytical reasoning and critical thinking for complex problem solving
3. Communication and collaboration skills across disciplines and cultures
4. Ability and will to lead the innovation and change processes
5. Ethical and socially responsible thinking and doing, both on a local and global basis

### 2. Career Development Framework (with strong emphasis on Learning & Teaching)
SUPPORT IMPLEMENTATION OF UTEC EDUCATIONAL MODEL AND STUDENT-CENTERED LEARNING
GOING BEYOND

Not the only provider
Online

Sharing Knowledge
Blended Learning

Asset Light University
Remote and virtual labs

Always interacting with others
Research: focus and competitive advantages for Peru

Water: 8th in fresh water reserves globally\(^1\), but highly unequal distribution.

Mining Technology: Top producer in gold, silver, copper, among others.

Preservation and Conservation of Historical Heritage: Top 5 in historical tourism.

Enormous potential for development of field sites for research across Perú.
Undergraduate Research - the case of Electronic Engineering at UTEC

- Training students since they are in their freshman year
- Mandatory projects since 1st semester
- Presentations in international conferences (Brasil, Uruguay, Chile)
- More than 15 international papers from undergraduate students
- 2 undergraduate students in the MSc program at ECE UNM, USA: 4+1
- 1 student led startup
UTEC Ventures | Entrepreneurship at UTEC

What

- UTEC Ventures (UV) ⇒ tech startup accelerator of UTEC
- An important piece on the UTEC educative model

Why

- Inspires students to start up
- Provides hands-on entrepreneurial skill training to students
- Generates T-shaped eng.: technical knowledge + soft skills

Results

- 17 accelerated startups
- 50% raised post-acceleration rounds in less than 2 years
- Program NPS: 69
- Students receiving great exposure to startups (events, training meetups, content in classes)
- Incubating our 1st student startup on 2017

Transforming Higher Education through 21st Century Polytechnic Ideals
A new relationship with the private sector

6 Advisory Councils, 37 CEOs from the most important companies

Capstone projects, empowering students’ ideas

Peru Digital Day

Research & Development (R&D)

Endeavor Peru

Vivir la Ingeniería (VLI)

Transforming Higher Education through 21st Century Polytechnic Ideals
Forthcoming challenges

- Faculty engagement and new role: no turning back
- Integration of the complete customer (i.e. student) journey
- Personalization while scaling?
- Student proactivity & motivation
- Temporary co-existence of two curricular models (while applying the student-centeredness at large)
A NOVEL APPROACH TO ENGINEERING EDUCATION

What do we expect?

- Booming interest in the different Engineering fields
- Decreasing dropout rates
- Increasing grade of autonomy, relatedness and competence
- A hike in engagement and long-term relation

Educate professionals able to understand, size and solve complex problems in an ethical way, and communicate these solutions effectively.
SEE YOU IN LIMA NEXT YEAR