

Information Technology Courses in Large Scale to Supply National Demands

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Fonte: UNIVESP

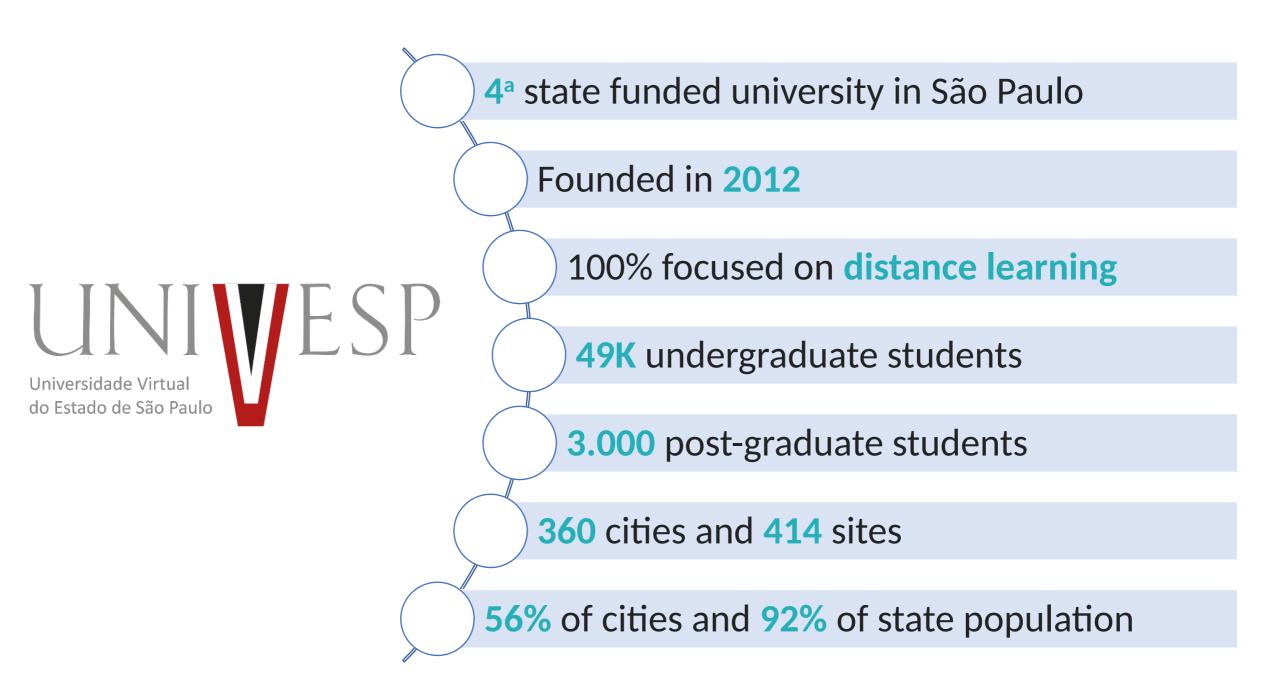
CONASENSE 2022 28/06/2022

Brazil



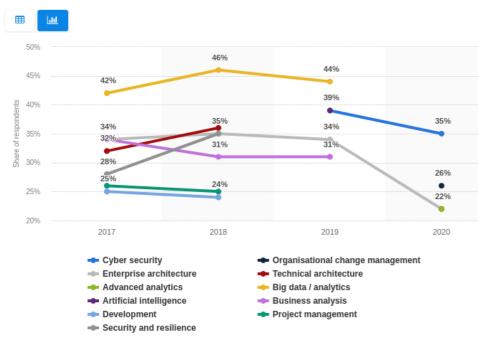
212 million people





A worldwide problem

IT functions suffering from skills shortages according to IT leaders worldwide in 2017 and 2020



IT Workers Will Be Hard to Find and Keep in 2022

By Nicole Lewis

December 13, 2021

The shortage of tech workers is about to become an even bigger problem for everyone

IT leaders see the shortage of talent as the biggest barrier to adoption for two-thirds of emerging technologies. That's coming in the way of organizations' digital transformations.



Written by Daphne Leprince-Ringuet on Sept. 13, 2021

The Software Developer Shortage in the US and the Global Tech Talent Shortage in 2022

JAN 05, 2022

Trends

The Brazilian size of the shortage

70K new positions open each year

46K students graduating each year

24K minimum gap

Source: Brasscom, 2019

UNIVESP response for this challenge



Redesigned our IT courses



Incresed partnership with companies for employability



Increased the number of students



Student Projects

Redesigned our IT courses

+3 semesters for bachelor degree in IT

3 semesters of basic IT classes

+5 semesters for bachelor degree in Data Science

+7 semesters for bachelor degree in Computer Engineering

Increased partnership with companies





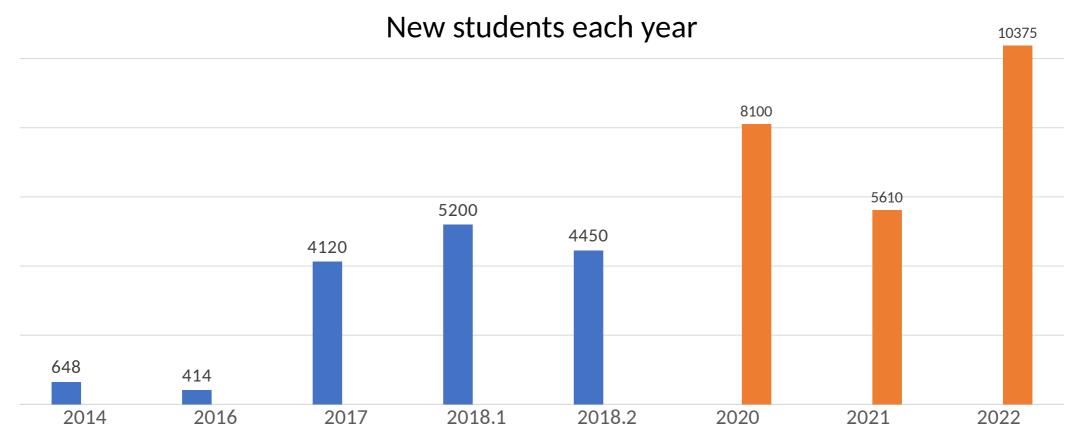
New approach for internships

Companies are ofering 2-3 months of skill training Company sponsored tracks Company mentors for students

Added new online hiring events

One every two weeks for more 100+ students

Increased the number of students



Computer Engineering only New curriculum (3 options)

Student projects

Every semester after the basic classes

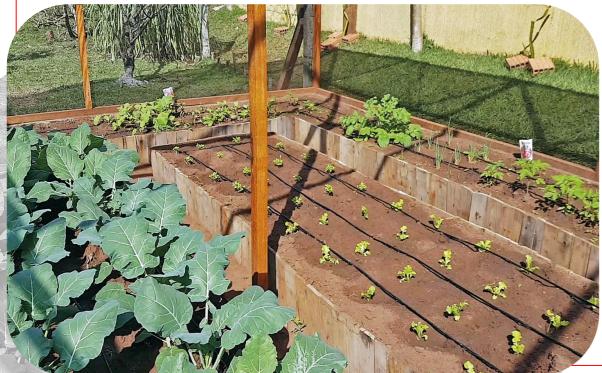
Design Thinking Methodology

- Group projects
- Students look for a problem
- Design a solution

ANN ANN STREET

- Implement a prototype
- Results shared/as report and videos





Student Project

IoT for home garden

Abstract: tofacilitating the care and maintenance of home gardens, the team developed a tool consisting of a hardware and an application (App) for mobile devices with Android operating system. The App makes use of several sensors to automate the watering of the vegetable garden and controls the actions on it. The target users will have quickly and easily control the amount of water used and at what times the plants will be watered according to the environmental conditions obtained by the sensors.



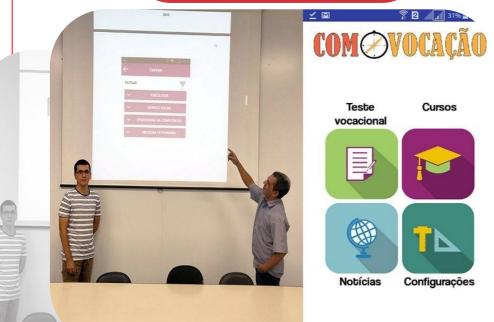


Rio das Pedras -Online City

Abstract: The main goal was to offer Internet access in public squares. The action was based on goal 11.7, Objective 11, of the 2030 Agenda of the United Nations (UN), which establishes universal access to safe, inclusive, accessible and green public spaces by 2030, for women and children, the older and disabled. The students offered internet in front of the university location after tests of signal range, power, communication speed, simultaneous users, authentication and time of use. People in the community attended the launch to access free social networks and news sites. The idea will be extended to other locations in the city, in partnership with the private sector.



Info Polo: Cubatão Curso: Engenharia de Computação Alunos: Antônio Marcos, Jaedson, Jefferson, João Victor, Luiz Carlos, Maria de Fátima e Ricardo Santos



Find your vocation App

Abstract: App developed for smartphones with Android platform targets young people who want to start academic life. The tool provides a range of data, with news from the academic world, information from the perspective of senior students and a virtual vocational test that indicates the inclination of the candidate to the various areas of knowledge. The idea is to combat dropout in the early years of higher education.

Aditional resources

- >11K lectures available in our YouTube channel
- >1M subscribers to the channel
- >100 open educational resources
- Support for skill training of unemployed workforce
 - More than 200K people trained in the last 2 years



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