

Activity Report

UNISEC-local
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Overview

The CanSat Bootcamp Costa Rica is an activity aimed at generating interest in the aerospace field in Costa Rican university students. The participants learned about satellite design, manufacturing and operations by building CanSats. The first edition took place from 20-22 July 2017 at the Costa Rica Institute of Technology (TEC) campus. There were 22 university students (first and second year) from the Costa Rica Institute of Technology and the University of Costa Rica participating.

The bootcamp consisted of three phases:

- First day: educational lectures
- Second day: CanSat workshop
- Third day: Launch of CanSats

The lectures were focused on themes such as small satellite design, women in aerospace engineering and entrepreneurship in science and technology. During the second day, student learned about CanSat subsystems, 3D printing and programming. At the end of the day, the students assembled their CanSats and constructed their own parachutes. The last day consisted of the launch of the CanSats using a drone from the Costa Rican company GoPato.

Date and Venue

Announcement Date
Event Date: 20-22
July 2018
Venue: Costa Rica
Institute of
Technology Campus

Participation

Total number of participants

Category of Participants Students Engineers/Instructors x Both
International Participants No x Yes

If yes, how many international participants were attended the activity?

Dr Barbara Bermudez Reyes from UNISEC Mexico

Sponsors

Intel, Inter-American Development Bank

Participants Group Photo



Results and Conclusion

The first edition was successful in many ways. All activities were completed by participants and all teams built functioning CanSats (five in total). A lot of interest was generated in the space engineering. We will have to wait a few years to see if any of the students that participated go into space related fields.