

The 5th CanSat Training Program (CTP5)

Organized by

Space Systems Technology Laboratory (SSTLAB), Aerospace Engineering Department,
Faculty of Engineering, Cairo University

In Cooperation with

University Space Engineering Consortium – Egypt (UNISEC-Egypt)

What is CTP?

The CanSat Training Program (CTP) was launched in 2011 at the Space System Technology Laboratory (SSTLAB) to contribute to capacity building in space technology and improve teaching methods based on space engineering education. In the next 5 years, education using CanSat will be expected in about 100 nations in the world.

History

CTP1: July 20 – August 1, 2011
CTP2: January – February, 2012
CTP3: January – February, 2013
CTP4: February – March, 2014

What is CanSat?

The CanSat provides an affordable way to acquire the students with the basic knowledge to many challenges in building a satellite.



Students will be able to design and build a small electronic payload that can fit inside a coke can. The CanSat is launched and ejected from a rocket or a balloon. By the use of a parachute, the CanSat slowly descends back to earth performing its mission while transmitting telemetry. Post launch and recovery data acquisition will allow the students to analyze the cause of success and/or failure.

What is SSTLAB?

Founded and operated by students, The Space Systems Technology Laboratory (SSTLAB) is a student based running laboratory, started in August 2011. The SSTLAB mission is to promote space science and engineering education at Cairo University.

What is UNISEC-Egypt?

University Space Engineering Consortium (UNISEC) is a non-profitable organization (NPO) to support practical space development activities in universities and colleges, such as small satellite and hybrid rockets. It was founded in Japan In April 2002. In November 2013, UNISEC-Global was acknowledged and in November 2014 UNISEC-Egypt was acknowledged as the local chapter of UNISEC-Global in Egypt.



CTP1



CTP2



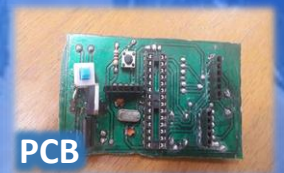
CTP3



CTP4



Drop test



PCB

The following technical topics will be covered in CTP5

- Programming with Arduino microcontroller board.
- Using different types of sensors: mems IMUs, temperature, pressure and others.
- Design and implementation of ground stations.
- Design and fabrication of structure and recovery systems.
- Design and fabrication of PCB electronics.

Date and Time

CTP5 will be held from January 27 – February 9, 2015, From 9:00 AM until 7:00 PM.

Venue

Space System Technology Laboratory,
Department of Aerospace Engineering Building
40000, 3F, Faculty of Engineering, Giza, Egypt.

For further information

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