



## **Design and Implementation of a Pico Satellite**

### **EgyCubeSat-1**

EgyCubesat-1 is the first Egyptian nano - satellite which is funded by European Union (EU) with RDI Program of the Ministry of Higher Education and Scientific Research and the National Authority for Remote Sensing and Space Sciences (NARSS) in Egypt. Also Support from JAXA- Japan is undergoing for providing Launching for EgyCubesat-1.

EgyCubesat-1 design is constrained to a 1-kg bus with a cube shape of dimensions of 10 x 10 x 10 cm. It has a camera as a payload with Ground Sample Distance (GSD) better than 100m. It is planned to have snapshots for Egypt territories. The orbit is sun synchronous and LEO orbit ranging from 600-700 Km with inclination of  $97.87^{\circ}$  and orbital period +/- 98 minutes. We are arranging to have the Launch services from MHI- Japan, which will provide us with J-POD from JAXA and launching with H2A F17 launch vehicle @2011.