



Note: This file can not replace watching the video lecture. Because the video lecture contains more explanation through graphical elaboration.

Certified Junior Astronaut Training Course



Origin of Satellites and their roles (Part 1)





This lecture will answer the following inquiry:



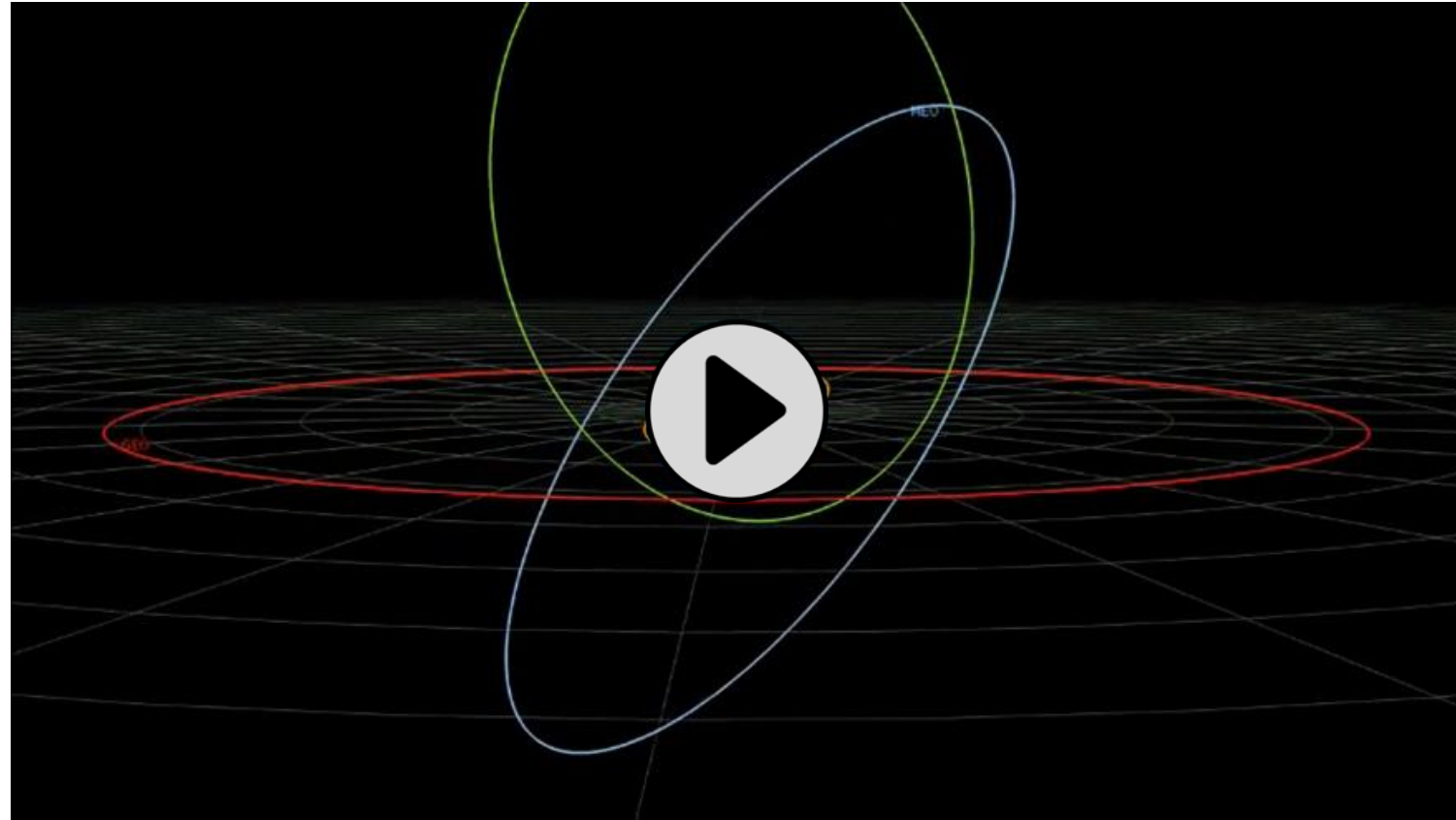
Is the Satellite static? Or does it rotate in the space?





Is the Satellite static? Or does it rotate in the space?

Satellites do not fly using the commonly known aviation theories like planes. Satellites operate outside the atmosphere where their movements are controlled by astronomical laws and theories that are studied in one of the most important branches of Astronomy which is "Orbital Mechanics". Satellites rotate in a very high speed in fixed circles called "orbits" and cannot stop. The speed of a satellite increases as it is nearer to the earth; and decreases as it is farther. There is no static satellite.





Cont.. Is the Satellite static? Or does it rotate in the space?

...Even the Communication and TV Broadcasting Satellites such as NileSat, Hotbird and Eutelsat which the majority of people think they are static because they direct their receivers towards them, they are also non-static. They rotate in a circular orbit above one point on the equator and at the same speed of the earth rotation. They seem to us from earth as if they are static.



Source: Eutelsat Communications



Thanks for your undivided attention

