



# **SRINIVAS UNIVERSITY**

## **College of Engineering and Technology**

**Mukka,Mangalore-574146, Karnataka (India)**

### **Research Centre for Small Satellite Technology**

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#### **About the Research Centre:**

This research centre is an initiative in the field of Electronics and communication at Srinivas University College of Engineering and Technology (S.U.C.E.T), focusing various activities in the area of Small satellite technology. With the active participations from faculties and students of SUCET, this centre wish to contribute by means of research and teaching activities in this sphere and also intending to present papers in the field of Small satellite technology at national and international seminars and conferences apart from conducting a large number of training programs in this domain. This also proposes an industry-academic partnership to form many of its activities.

#### **Objectives Srinivas Research Center for Small Satellite Technology:**

- To develop technology and applications of small satellites for addressing social needs like education, medicine, disaster management, national security, Search & Rescue
- To develop configurations for small satellites for different applications
- To develop various mainframe/bus technologies for different space applications

- Design and develop efficient miniaturized systems for small satellite training facilities for educating students and professionals involved in small satellite technologies
- To design and develop Ground station for tracking and receiving data from small satellites
- To provide guidance and develop support for establishing small satellite ground stations

Small satellites offer valuable missions with current and emerging technologies, for all fields of science and applications, for technology demonstrations and for education and training. This is not only true in industrialized countries, which already have established space programmes, but it is also particularly important for developing countries and countries emerging in space technology, which can then have access to space missions, applications and spin-off technologies. Together with reduced development times, the inherent reduction of launch costs offered by the reduced size and mass of the spacecraft and their more manageable proportions, small satellites become attractive ways to develop and establish a national expertise in space technology and to serve the needs of all countries in accessing new missions. Small satellite missions are particularly attractive for so-called “space-emerging” countries—which are countries with a technical knowledge base and some space experience, striving for small satellite missions to exploit the new, cost-effective possibilities they offer. The philosophy and roles of microsattellites and small satellites are examined here, as are also the economic aspects of small satellite projects, the roles of educational and research institutions and of the commercial sector, and the possibilities for cooperation at the regional and international levels.

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