

Functions of SAC

- Carryout activities of research and development of electro-optical payloads and related technologies for Earth observation, planetary and space science missions.
- Carryout activities of research and development of microwave remote sensing to enhance observation capabilities for earth observation, planetary and space science missions.
- Carryout activities of research and development of satellite communication and navigation payload systems for satellite communications
- Carryout activities of research and development of space and ground antenna systems
- Carryout activities of research and development of ground segment for effective utilization of communication and navigation satellite
- Carryout activities of research and development of algorithms and software for processing signals received from satellites,
- Carryout activities of research and development of models, algorithms, software and hardware for application of both optical and microwave satellites
- Carryout activities of research and development of processes and methods for payload miniaturization through micro, nano and advanced packaging and electronics and mechanical fabrication technologies.
- Carryout R&D and operational activities of space qualification of hardware through thorough simulation and testing
- Carryout activities ensuring high reliability through quality control and quality assurance in hardware and software
- To achieve state of the art capability and self-reliance in design and development of crew centric systems for Human Space Programme and ensure crew safety through specific human-rated R&QA practices.
- Design and development of state-of-the-art techniques, algorithms and software for simulations, data processing, data quality evaluation, calibration & validation and visualisation for earth observation and planetary sensors for generation of high quality data products.
- Undertaking activities of capacity building for promoting indigenisation & industry participation and encouraging Research, Training, Education and Outreach endeavours
- Procurement of products and services
- Finance and accounts activities
- Activities pertaining to general administration