



Space Technology and Aeronautical Rocketry

Problem Statement | Virtual Training & Internship Program

Problem Statement:

To design a Rocket Motor Static Test Pad for testing and acquiring the required data for the performance analysis of the high powered rocket motors

Department specific Problem Statement:

Department of Avionics systems:

- To design a system to acquire and process the data
- To design the electrical power system
- To build a test control system
- To acquire and store the required data for further analysis
- To design the systems for real-time data transmission and reception
- To develop or discover a technique/tool to store, display and analyse data

Designing:

- To design the static test pad (STP) mechanism with a good strength/weight ratio
- To design a STP with a good aesthetics and ergonomics
- To design a STP which can be assembled and disassembled easily
- To design a structure to install all electronics and power system conveniently
- To perform the required simulations to minimize the errors while operating

Note: This document only includes the overview of the project and no detailed description to avoid the confidentiality issues