

## **M.Tech - Aerodynamics and Flight Mechanics**

### **Program Educational Objectives (PEO)**

1. To establish strong foundations of fundamental knowledge with analytical and experiment skills in Aerospace Engineering.
2. To cultivate the practice of independent academic research along with innovation in aerodynamics and flight mechanics.
3. To promote academic research based on the contemporary technological needs of the industry and society.
4. To inculcate the process to be effective in technical communication and work as team.

### **Program Outcomes (PO)**

1. An ability to independently carry out research /investigation and development work to solve practical problems.
2. An ability to write and present a substantial technical report/document.
3. Students should be able to demonstrate a degree of mastery over the area as per the specialization of the program.
4. Capability to Innovate, design and analyze components related to aerospace engineering.  
Ability to perform multidisciplinary analysis involving aerodynamics, flight dynamics and control design for aerospace applications.
5. Ability to perform experimental and numerical simulations for modeling of aerospace systems.
6. Guidance to upkeep professional ethics in all scientific and engineering practices.