



PAAVAI ENGINEERING COLLEGE

(Autonomous)

Techfinix '26

DEPARTMENT OF AERONAUTICAL ENGINEERING

PAPER PRESENTATION DESCRIPTION

Faculty Name: Mr.D.Deepak ASP/AERO	Student Name: P.Naveenkumar IV Year/AERO
Faculty Number: 9750236364	Student Number: 8680040185

Event Deatails:

Paper Presentation is a technical event designed to provide students with a platform to present innovative ideas, research findings, emerging technologies, and engineering solutions in the field of Aeronautical and Aerospace Engineering. Participants can explore topics related to aircraft design, aerodynamics, propulsion, UAVs, avionics, aerospace materials, space technology, artificial intelligence, sustainable aviation, and future aviation technologies. The event encourages students to demonstrate their technical knowledge, creativity, research skills, and presentation abilities while interacting with fellow participants and experts. It provides an opportunity to transform innovative ideas into meaningful engineering solutions and gain valuable exposure to current developments in the aerospace industry.

PROJECT EXPO DESCRIPTION

Faculty Name: Mrs.S.Marypriya AP/AERO	Student Name: S.G.Rithika IV Year/AERO
Faculty Number: 8056016177	Student Number: 6381519046

Event Details:

The Project Expo is a platform for students to showcase their innovative engineering projects, prototypes, and practical solutions in the field of Aeronautical and Aerospace Engineering. Participants can demonstrate their knowledge through projects related to aircraft design, aerodynamics, propulsion, UAVs, avionics, aerospace structures, robotics, artificial intelligence, space technology, and sustainable aviation. The event encourages students to transform their creative ideas into working models, solve real-world aerospace

challenges, and demonstrate their technical, analytical, and problem-solving skills. It also provides an opportunity to interact with fellow innovators, receive valuable feedback, and explore emerging technologies shaping the future of aviation and aerospace.

“Build Your Vision. Demonstrate Innovation. Engineer the Future of Aerospace.”

PARACHUTE DIVING DESCRIPTION

Faculty Name: Dr.D.Deepak ASP/AERO	Student Name: A.Muthukumaran IV Year/AERO
Faculty Number: 9750236364	Student Number: 9500134759

Event Details:

The Parachute Challenge is an exciting hands-on event that tests participants’ creativity, and understanding the design aspect of Aerodynamics and Flight Mechanics. Participants will design and construct a parachute using the materials provided by the organizers. The objective is to achieve the maximum flight time while ensuring a stable and controlled descent. Participants must carefully consider factors such as canopy size, shape, drag, weight, and suspension-line arrangement. The event encourages innovative design, teamwork, problem-solving, and practical application of aerospace principles. Designs will be evaluated based on performance, stability, creativity, and overall effectiveness. Participants will experience the fundamentals of parachute design through an engaging and competitive aerospace activity.

Team Size : 2 Members

DRONE RACING LEAGUE DESCRIPTION

Faculty Name: Mr.G.Sasi ASP/AERO	Student Name:S.Poovarasan IV Year/AERO
Faculty Number: 7010512228	Student Number:7604818861

Event Details:

Experience the thrill of high-speed drone racing participants must use only quadcopter drones with a maximum size of 30 cm and a weight between 250 g and 2 kg. The race track will feature 10–15 obstacles, and the competition will be conducted in two rounds. All

drones must pass a basic safety inspection before the race, and participants must strictly follow the track and safety rules; any violation may result in disqualification. Selection and ranking will be based on the fastest track completion time, with exciting prizes awarded to the top performers.

Team Size : 2 Members

GLIDER COMPETITION DESCRIPTION

Faculty Name: Mr.S.Suthagar AP/AERO	Student Name: S.Ajaykumar IV Year/AERO
Faculty Number: 6369639132	Student Number: 9786523336

Event Details:

The Glider Competition is a hands-on aeronautical engineering event where participants design and build a lightweight glider using the provided materials such as foam/ thermocol or balsa wood, adhesive, launch equipment, and measuring/marketing tools. Participants will apply basic principles of aerodynamics, lift, drag, stability, weight distribution, and center of gravity to achieve the best flight performance. The competition encourages creativity, innovation, teamwork, and practical aircraft-design skills. Gliders will be evaluated based on their flight performance and designated competition criteria, and the best-performing participants will be awarded prizes and certificates.

Team Size: 2 Members