



DJI

Unmanned Aerial Vehicle

Industry Insight

Visit DJI Unmanned Aerial Systems Training Center (UTC) and participate in unmanned aerial program

Career & Major

Communication Engineering, Electronic information, Astronomy, Physics

Skills Enhancement

Assembly principles and maintenance of UAV; simulated drill of UAV flight; basic knowledge of UAV shot, inspection, mapping; practice of UAV flight

Certificates

1. Certificate in Careers and Experiencing Work accredited by UCAS
2. Project Certification issued by Unmanned Aerial Systems Training Center, UTC

Project Introduction

In recent years, the UAV industry has developed rapidly. UAV is mainly used in aerial surveying and mapping, patrol inspection, national defense security, agriculture, film and television shooting. In 2022, ASDAN and the Shanghai campus of UTC, the official UAV application technology training center of DJI, launch DJI Unmanned Aerial Vehicle Project. It gives students an opportunity to immerse themselves in UAV knowledge and cutting-edge applications in the exclusive UAV base and airspace, and conduct hands-on UAV engineering design, production, assembly, autonomous flight, obstacle racing, programming practice, etc.

DJI Unmanned Aerial Vehicle Agenda (7 days)

- Targeted Majors: Machinery, Automation, Electronic Information, Remote Sensing Surveying and Mapping
- Location: Shanghai |Date: July 09 - July 15, July 21 - July 27
- Language: Chinese |Age: 14-18

Agenda	Morning	Afternoon	Evening
Day1	Arrive in Shanghai; Check into the hotel	Opening Ceremony ASDAN Career Education Workshop 1	
Day2	Class 1: Background and Application of UAV Learn UAV courses in DJI UTC, including basic principles, history, and types of UAV Learn the application of UAV in mapping, national security and film industry; UAV safety regulations	Class 2: Analysis of Interdisciplinary Principles of UAV Master the flight theory and assembly principles of UAV; learn maintenance of UAV	
Day3	Class 3: UAV Flight Principle and Knowledge Explain aerodynamics, UAV flight principle, flight mode and control method Practice Workshop 1: UAV Flight Drill Simulation Experience the pilot training process; learn basic UAV operation skills on computer	Class 4: DJI UAV and Industry Application Analysis Display various types of DJI UAV, learn the latest technology and development trends of UAV Practice Workshop 2: Innovative Application of UAV Engineering Design and Production	Team Discussion and Academic Report: 1. Finish study task and team discussion 2. Write personal plan for Career Education Report
Day4	Practice Workshop 3: UAV Assembly Assemble and adjust the multi rotor UAV under the guidance of the instructor; debug parameters of UAV.	Practice Workshop 4: UAV Engineering Maintenance Practice UAV assembly and commissioning, pre-flight inspection, flight test and application operation drill.	
Day5	Class 5: Artificial Intelligence and Unmanned Driving Barrier Detection Explain AI and UAV driving, and understand their development direction and unmanned driving. Practice Workshop 5: UAV Barrier Detection and Autonomous Flight	Practice Workshop 6: UAV Speed Racing Control UAV to take off from assigned position and fly according to the specified route.	
Day6	Class 6: UAV Programming Learn basic UAV programming principles. Practice Workshop 7: UAV Programming	Challenge 1: UAV Programming Maze Challenge 2: UAV Innovative Application Challenge	Closing Ceremony ASDAN Career Education Workshop 2
Day7	Departure		

