



MA UAS DESIGN & ENGINEERING COURSE

Course Contents

Course Description: This executive course offers an insight into UAS design and engineering using the Marques Aviation UAS series as a reference. The course gives an overview of current UAV technologies, applications and operations using real-world unmanned aviation programs.

Course Contents

1. Technical aspects of the MA UAS platforms
2. MA UAVs Conceptual Design
3. UAV Sensors
4. Communications and Data Links
5. Solar and Fuel Cell Propulsion Technology
6. UAV Reliability
7. UAV Navigation
8. Sense and Avoid Systems
9. Human Machine Interface
10. Airspace Issues, Regulation and Airspace Integration.
11. Fundamentals of Automatic Control
12. UAS Autonomy and Swarming