

AVIT185 : Remote Sensing Using Unmanned Aircraft Systems

Introduces students to the use of unmanned aircraft systems for remote sensing and acquiring information about the Earth's surface without coming in contact with it. Topics include but are not limited to an introduction to remote sensing, classification of unmanned aircraft systems, attitude estimation, lateral channel fractional order flight controller design, remote sensing using a single UAS, using multiple UAS's, and diffusion control using mobile sensors and actuator networks.

Credits 4

Lecture Hours 4

Lab/Clinical/Field Study Hours 0