

Materia 4_45: Drones

Materia:	Drones	ECTS:	15
Descriptores	<ul style="list-style-type: none"> • Basic aerodynamics, profiles, distribution of forces, flight controls and stability. • Flight planning, positioning, trajectories, legislation. Navigation systems and Unmanned Traffic Management (UTM) • Regulations, typology, sensors and applications of drones. Computer Software, Automation, Robotics and Vision for the industry in drones. 		
Objetivos generales	<p>This subject has the objective of disclosing the typology, structure, operation and regulations of unmanned aircraft systems to develop the methodology for the generation of a real application. The applications of unmanned aerial vehicles will be introduced and that can contribute, both to navigation and to the knowledge of the environment, such as the processing of data obtained in the flights and his engineering applications.</p>		
Competencia específica	<p>CE [4-45]: Define construction techniques, piloting, unmanned traffic management and applications of drone systems.</p>		
Resultados de aprendizaje	<p>the mechanisms and forces that affect the flight of a drone and the systems that belong to it. e a flight path plan for a drone. e main systems and frames of reference and geopositioning systems of Drones, such as the traffic ement of drones (UTM). regulatory procedures for the safe operation of drones for their control and analysis to develop applications in engineering.</p>		
Métodos de evaluación	<ul style="list-style-type: none"> • Evaluation: Written open-ended test and Problems • Assessment instruments: Checklists and Rating Scales 		