

UAV - UNMANNED AERIAL VEHICLE

UAV 4003 UAV Pilot Ground School (3-2-3)

UAV Pilot Ground school Course is designed to prepare students to operate training aircraft for flight and includes technical and operating details of training aircraft systems and flight line and safety procedures. This course is part of the initial phase of UAV pilot training and provides essential Aircraft flying experience.

Prerequisites: AVS 2133, AVS 3113

Corequisites: AVS 4012

UAV 4012 UAV Pilot General Handling Ground School (2-2-2)

Presents the airfield operating procedures. Consolidates the knowledge of aircraft flight procedures for VFR conditions already taken during the Airmanship course. Applies all aspects of general handling, covered in Principles of Flight and Aircraft Performance courses, through Aircraft flying experience.

Prerequisites: UAV 4003, AVS 2123

UAV 4022 UAV Pilot General Handling Flying (2-2-2)

In UAV Pilot General Handling Flying course, students practice general handling flight, applying all information and skills provided by previous courses. Students carry out airfield operating procedures, aircraft flight procedures and aircraft manoeuvre procedures for VFR conditions. All flight profiles for general handling are covered including take-off, landing, climbing, descending, turning, level flight, circuits, emergency recovery. This course is part of the initial phase of UAV pilot training and provides essential Aircraft flying experience.

Prerequisites: UAV 4012

UAV 4031 UAV Pilot Instrument Flying (1-2-1)

UAV Pilot Instrument Flying Course consists of both classroom learning and flying exercises. During classroom/ ground schooling phase, the students are introduced to the study of Instrument Charts. How to consult these to find out the standard airfield departure/recovery procedures (SID/STAR), Instrument Landing System (ILS) approaches. This course is part of the initial phase of UAV pilot training and provides essential Aircraft flying experience.

Prerequisites: UAV 4003

UAV 4041 UAV Pilot Navigation Flying (1-2-1)

In UAV Pilot Navigation Flying course students learn how to prepare a navigational route and how to apply navigational procedures and techniques in order to fly an aircraft on a preplanned mission, how to use aircraft instruments for navigation and practice different part of the mission exercises including departure / arrival / set course procedures, medium and low level navigation techniques, how to carry out diversion and how to avoid danger area / bad weather during navigation missions.

Prerequisites: UAV 4003

UAV 4103 Unmanned Aircraft Operations (3-1-3)

Provides a comprehensive overview of Unmanned Aircraft Systems (UAS), including their history, technological advancements, and key milestones. Students will analyze the advantages and limitations of UAS, and differentiate between unmanned and manned aviation. Covers classifications of UAS types, concepts of operations in rural and urban environments, and regulatory requirements. Additionally, it addresses airworthiness standards, command and control systems, and crew resource management, preparing students for military and civilian UAS applications.

Prerequisites: UAV 4022

UAV 4113 Unmanned Vehicle Systems (3-1-3)

Explores RPAS operations comprehensively, covering control, communication, propulsion, and navigation. Enables students to gain insight into advanced payloads like EO/IR cameras and SAR, with a focus on safety and skill development.

Prerequisites: UAV 4022

UAV 4203 UAV Ground School (3-1-3)

Covers comprehensive RPAS operations, including principles of flight, meteorology, airspace regulations, mission planning, pre-flight inspections, in-flight procedures, communication, and emergency management. Prepares students for safe and effective drone operations.

Prerequisites: UAV 4022

UAV 4213 UAV Flight Training (Simulated) (3-1-3)

Provides comprehensive instruction in operating and controlling Remotely Piloted Aircraft (RPA) through a simulated desktop environment. Participants will gain hands-on experience and theoretical knowledge through a series of modules covering various flight modes, manual flight control, circuit operations, adverse weather operations, navigation techniques in both rural and urban environments, as well as emergency handling procedures. Enables participants to develop the skills necessary to operate RPAs safely and effectively in various operational scenarios.

Prerequisites: UAV 4203, UAV 4103, UAV 4113

UAV 4223 UAV Mission Training (Simulated) (3-1-3)

Equips students with foundational skills for UAV missions, with a particular focus on Sensor Operator skills. It encompasses training in RPA Desk-Top Trainer utilization, FMV payload control, and refining observation skills. Initiates Students to ISR operations, topographical map analysis, ISR and SAR image collection, and prepares them for the complexities of real-world UAV missions.

Prerequisites: UAV 4203, UAV 4213