

ADF - AIR DEFENCE (ADF)

ADF 3003 Air Defence Systems (2-2-3)

Introduces principles, missions, assets capabilities of global Air Defence systems and its organization. Discusses capabilities and concept of employment of global radar and warning systems (ground, airborne). Clarifies capabilities and specifications of global anti-aircraft missile systems. Demonstrates capabilities and concept of employment of global Thermal missiles and anti-aircraft artillery systems.

Prerequisites: AHM 1203, AVS 2153

Corequisites: ADF 3103

ADF 3013 Air Defence Tactics (3-1-3)

The main principles of Air Defence Tactics involving the early warning units, strategic Air Defence units, airborne Air Defence and command and control of Air Defence units. The course covers the integration of ground based and airborne early warning units, ground based weapons and communication systems. The employment of strategic Air Defence units are discussed and the integration of Air Defence units attached to Land Forces

Prerequisites: AVS 3153

Corequisites: ADF 3103

ADF 3103 Air and Space Power (3-1-3)

Air Forces Organization and Weapons, Types and Methods of Air Attack, Air Superiority and Counter Air Operations, Strategic Attack, Close Air Support, Air Interdiction, Air Mobility, Intelligence Surveillance and Reconnaissance, Air Operations Management, C2 Principles, Air Space Control, Electronic Warfare, Discussions, Airbase Visit and Air Operations Centre Visit.

ADF 4003 Tactical Communications Systems (3-1-3)

Students examine the unique communications requirements of military forces. Communications Organisation (Communication Force), and Communication Systems and Regulations are studied to prepare the student to communicate securely and successfully using the appropriate methods for each communication requirement. Tactical radio and wireless communication systems and their technical specifications are covered.

Prerequisites: AVS 1013

ADF 4013 Land Forces Organisation and Weapons (3-1-3)

The organisation, structures, equipment, and capabilities of individual Land Force formations and organisations are examined in the context of the military effect they would be expected to achieve. Students then determine how individual formations and organisations assembled together to provide a larger capability for detachment or deployment

ADF 4112 Airspace Management (2-0-2)

This course delves into managing civilian and military airspace, focusing on the structures and regulations essential for maintaining safety and security. It covers various topics, including the Rules of the Air, the classification and division of general airspace, the organizational structure of the UAE Air Traffic Control, and the specifics of the UAE Military Airspace. Students will explore various aspects such as aeronautical documentation, civil control techniques, fighters' operations in training zones, and separation norms. Additionally, the course provides insights in

Prerequisites: AVS 3103 or AVS 3193

ADF 4123 Fighter Control (3-1-3)

Fighter Control capability is discussed, from the history of the first use of Fighter Controllers to the modern capability. Fighter Control organisations and functions are reviewed, to include Control & Reporting Centres, Airborne Early Warning, and C4ISR. Personnel roles within Fighter Control organisations are also reviewed.

Prerequisites: ADF 3103, AVS 2153

ADF 4134 Aircraft Recognition (3-1-4)

Aims at providing students with the skills of recognition of different national, regional and international aircraft. The course includes technical and tactical aircraft recognition points, the importance of Aircraft Recognition, how to update & find new Aircraft types, Practical Exercise - Aircraft fact finding, recognitions of Fighter aircraft, Bombers, Reconnaissance aircraft, Training aircraft, Transport aircraft, Helicopters, Unmanned aerial vehicles (UAV) & Missiles, and Area Countries Aircraft.

ADF 4204 Organization and Utilization of Air Defence Systems (3-2-4)

Discusses organization, equipment and concept of combat use of ground and air based Air Defence assets and demonstrates formations of the UAE units. Clarifies utilization of air defence missile systems, radar and warning systems, and anti-aircraft artillery.

Prerequisites: AVS 2153, AVS 3173

ADF 4213 Air Defence Systems Operations (2-2-3)

Introduces classifications, concept of operations and trends of development of air threats (modern air attack weapons - unmanned aerial vehicles - ballistic and cruise missiles (and investigates appropriate methods to encounter it.

Prerequisites: ADF 3003, ADF 4204