

AVIATION SUPPORT

Admission to Program

This program is only open to Officer Cadets already employed by the UAE Armed Forces. Selection to the program is conducted annually by a committee nominated by the General Head Quarters of the Armed Forces (GHQ) in consultation with HCT. The entry requirements for the Bachelor in Science is jointly determined by the UAE Armed Forces and HCT to meet the requirements of the UAE Armed Forces as an employer and the standards for higher education as set by the CAA. Students wishing to take this program should apply to the UAE Armed Forces to enter employment with the UAE Armed Forces in the first instance.

Program Mission

Prepare future Officers as exceptional leaders of the UAE Armed Forces providing them with a sound understanding of military sciences, aerosciences, flight and aviation operations in order for them to become professional officers supporting aviation operations on the international defense stage with a vision for the future, and an ethos of loyalty, obedience and dedication to the national duty.

Program Description

The Bachelor of Aviation Support Program prepares students for employment as an Officer in Military Aviation employed in a general or specialist support position in the UAE Armed Forces.

The program provides training for general employment as an Officer in an Aviation Support or Specialist Air Defense.

Program Learning Outcomes

In addition to the generic graduate outcomes related to the Bachelor graduates of the Higher Colleges of Technology, cadets, upon completion of the modified program, will be able to:

- PLO 1: Function in multidisciplinary teams and develop military leadership capabilities to support and conduct tactical military operations.
- PLO 2: Communicate effectively and concisely military ideas, directions and communications in written, oral and visual form.
- PLO 3: Identify, formulate, and solve scientific and operational problems encountered in the practice of performing the role of a military aviation officer.
- PLO 4: Identify the latest military technology and supporting environmental and societal concepts to assist all aspects of military aviation operations.
- PLO 5: Interpret military orders and utilize supporting aviation data, principles and military technology to plan and execute military aviation operations.
- PLO 6: Operate a range of airborne and ground based military aviation equipment in the training environment.

Area of Concentration PLOs:

- PLO 7 Air Defense: Plan and prepare to use Air Defense techniques and technologies on a range of aviation military training missions.

Requirements

Completion Requirements

Students must successfully complete a minimum of 121 credits, including:

Code	Title	Credit Hours
	Military Studies	12
	Aviation Core	51
	Aviation Electives	25
	General Studies	33
Total Credit Hours		121

Code	Title	Credit Hours
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Aviation Support Core Courses

Required Credits: 51		
ADF 3103	Air and Space Power	3
ADF 4112	Airspace Management	2
ADF 4134	Aircraft Recognition	4
AVS 1013	Aviation Electric and Magnetic Fundamentals	3
AVS 1023	Aviation Calculus	3
AVS 2113	Meteorology I	3
AVS 2133	Aircrew Survival	3
AVS 2153	Radar Systems	3
AVS 3033	Navigation	3
AVS 3043	Satellite Communications and Navigation Systems	3
AVS 3053	Electrical Systems	3
AVS 3143	Human Factors	3
AVS 3153	Electronic Warfare Systems	3
AVS 3173	Missile Systems	3
AVS 3193	Aviation Law	3
AVS 4143	Capstone Project	3
MTS 1133	Warfare Tactics	3

Military Studies Courses

Required Credits: 12		
MTS 1002	Leadership	2
MTS 1102	Staff Duties	2
MTS 1112	Topography	2
MTS 1123	Air Force History and Organisation	3
MTS 2103	Aircraft Weapons Systems	3

Air Defense Officer Courses

Required Credits: 25		
ADF 3003	Air Defence Systems	3
ADF 3013	Air Defence Tactics	3
ADF 4003	Tactical Communications Systems	3
ADF 4013	Land Forces Organisation and Weapons	3
ADF 4123	Fighter Control	3
ADF 4207	Ground Based Air Defence Systems Operation	7
AVS 2123	Principles of Flight	3

General Studies

Required Credits: 33

English, Arabic or other Languages

Required Credits: 12

Humanities or Art

Required Credits: 6

Information Technology or Mathematics

Required Credits: 6

The Natural Sciences

Required Credits: 3

The Social or Behavioral Sciences

Required Credits: 6

Ideal Study Plan

Recommended Sequence of Study

Year 1

Semester 1		Credit Hours
AES 1013	Arabic Communications	3
ICT 2013	Computational Thinking and Coding	3
LSM 1103	Technical Mathematics	3
LSS 1003	Life and Future Skills	3
MTS 1002	Leadership	2
MTS 1102	Staff Duties	2
Credit Hours		16

Semester 2

AES 1003	Emirati Studies	3
AHM 1203	Aviation Physics	3
LSC 1103	Professional Communication and Reporting	3
MTS 1112	Topography	2
MTS 1123	Air Force History and Organisation	3
MTS 2103	Aircraft Weapons Systems	3
Credit Hours		17

Semester 3

AVS 1013	Aviation Electric and Magnetic Fundamentals	3
AVS 1023	Aviation Calculus	3
AVS 2113	Meteorology I	3
LSC 1503	Academic Spoken Communication	3
PST 1173	Islamic Studies	3
Credit Hours		15

Year 2**Semester 4**

AVS 2123	Principles of Flight	3
AVS 2153	Radar Systems	3
AVS 3033	Navigation	3
AVS 3043	Satellite Communications and Navigation Systems	3
AVS 3193	Aviation Law	3
LSC 3023	Professional English	3
Credit Hours		18

Semester 5

AVS 2133	Aircrew Survival	3
AVS 3053	Electrical Systems	3
AVS 3153	Electronic Warfare Systems	3
AVS 3173	Missile Systems	3
LSS 1123	Basic Research Methods	3
Credit Hours		15

Semester 6

ADF 3103	Air and Space Power	3
ADF 4134	Aircraft Recognition	4
AVS 3143	Human Factors	3

AVS 4143	Capstone Project	3
Credit Hours		13

Year 3**Semester 7**

ADF 3003	Air Defence Systems	3
ADF 3013	Air Defence Tactics	3
ADF 4112	Airspace Management	2
MTS 1133	Warfare Tactics	3
Credit Hours		11

Semester 8

ADF 4003	Tactical Communications Systems	3
ADF 4013	Land Forces Organisation and Weapons	3
ADF 4123	Fighter Control	3
Credit Hours		9

Semester 9

ADF 4207	Ground Based Air Defence Systems Operation	7
Credit Hours		7
Total Credit Hours		121

Faculty and Academic Staff

Abdul Kareem Abdul Qader Okelan, Ph.D., Arabic Linguistics, The World Islamic Sciences & Education University, Amman, Jordan

Achilles Pappas, Master of Science in Advanced Information Systems, National and Kapodistrian University of Athens, Greece

Ahmed Hassan Ali, Ph.D., Aeronautical Engineering, NPS, USA

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Ali Elleithy Affi Shaalan, Master of Science in Electronics and Communications Engineering Faculty of Engineering, Cairo University, Egypt

Amr Sayed, Ph.D., Electronics and Communications Engineering, Ain Shams University, Egypt

Anil Ahuja, Bachelor of Science, National Defense Academy Pune, India

Ashraf Al Sharnoobi, Bachelor, Air Navigation and B.Sc. in Military Science, Egyptian Air Force Academy, Egypt

Aymen Hajji, Engineering Degree in Aviation, Aviation School of Burj Al-Amri, Tunis, Research Master's Degree in science and technology, National Engineering School of Tunis, Tunis, Tunisia

Brahim Benhammouda, Ph.D., Applied Mathematics, Technical University of Chemnitz, Germany

Chaudhry Muhammad Zahid Aslam, MSc, Strategic Studies, National Defence University, Islamabad, Pakistan

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Hesham Mahmoud, Bachelor, Electrical Engineering (Aircraft Armaments), Military Technical College, Cairo, Egypt

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Kevin Ayoubi, Ph.D., Sociolinguistics, Cornell University, USA

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Merih Tevs Ozdag, Masters of Art, Teaching English as a Foreign Language, Bilkent University, Turkey

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Mustafa Anwer, Master of Philosophy - Strategic Security Management. National Defence University, Islamabad. Pakistan

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Saad Ali Ahmed Moustafa, Ph.D., Arabic Linguistics, Morphology and Poetry Scaling, Darul Uloom, Egypt

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