

FACULTY OF ENGINEERING TECHNOLOGY AND SCIENCE

Faculty Mission

The Faculty of Engineering Technology and Science mission is to provide world class engineering programs empowering graduates with the desire for learning, discovery and innovation, and provide highly competent technologists and engineers to meet present and future industry needs nationally and globally. The reputation and academic integrity of Engineering Technology and Science programs at HCT is high.

The Faculty of Engineering Technology and Science graduates are effective in the design and practical application of engineering technology solutions. As students, they are taught to lead successfully, work efficiently, and communicate effectively in a team. Their experience during the engineering undergraduate program will instill ethical values and professional standards, therefore, helping them expand their knowledge and competencies through continuing education and other lifelong learning experiences. Thus, making them significant members of the community by contributing their skills and knowledge either locally or internationally.

Employment prospects for HCT Engineering Technology and Science graduates are very strong and cover many local and international industrial sectors including Aviation, Computing, Construction, Consulting, Defense, Energy, Governance, Health care, Infrastructure support and maintenance, Manufacturing, Oil and gas and Telecommunications.

Senior Staff

Executive Dean

Prof. Saud Aldajah

List of Programs and Departments

- Aeronautical Engineering Technology: Bachelor (<https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/programmes/engineering-technology-science/aeronautical-engineering-technology-baet/>)
- Aviation Maintenance Engineering Technology (Airframe and Aeroengines): Bachelor (<https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/programmes/engineering-technology-science/aviation-maintenance-engineering-technology/>)
- Aviation Maintenance Engineering Technology (Avionics): Bachelor (<https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/programmes/engineering-technology-science/aviation20maintenance20engineering20technology20avionics20baet/>)
- Chemical Engineering Technology: Bachelor (<https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/programmes/engineering-technology-science/chemical-engineering-technology-bchet/>)
- Civil Engineering Technology: Bachelor (<https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/programmes/engineering-technology-science/civil-engineering-technology-bcvet/>)
- Electrical Engineering Technology: Bachelor (<https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/programmes/engineering-technology-science/electrical-engineering-technology-belet/>)
- Industrial Engineering Technology: Bachelor (<https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/programmes/>)

[engineering-technology-science/industrial-engineering-technology-binet/](https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/programmes/engineering-technology-science/industrial-engineering-technology-binet/))

- Logistics Engineering Technology: Bachelor (<https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/programmes/engineering-technology-science/logistics-engineering-technology-blget/>)
- Mechanical Engineering Technology: Bachelor (<https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/programmes/engineering-technology-science/mechanical-engineering-technology-bmcet/>)
- Mechatronics Engineering Technology: Bachelor (<https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/programmes/engineering-technology-science/mechatronics-engineering-technology-bmtet/>)
- Marine Engineering Technology: Bachelor of Applied Science (<https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/programmes/engineering-technology-science/applied-science-marine-engineering-technology/>)
- Marine Transport: Bachelor of Applied Science (<https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/programmes/engineering-technology-science/applied-science-marine-transport/>)
- Maritime Engineering Technology and Naval Architecture: Bachelor of Applied Science (<https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/programmes/engineering-technology-science/applied-science-maritime-engineering-technology-naval-architecture/>)
- Department of Mathematics and Natural Sciences (<https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/programmes/engineering-technology-science/mathematics-natural-sciences/>)

Professional Certifications

- Engineering Project Manager (<https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/professionalcertifications/engprojmanager/>)
- Health and Safety Professional (<https://hctcatalog.hct.ac.ae/previouscatalogs/2021-2022/professionalcertifications/healthsafetyprof/>)
- Kedge Certified Future Foresight Associate (CFFA)
- Siemens Mechatronic Systems Certification Program (SMSCP)

Additional Academic Program Professional Certifications

Marine Transport and Marine Engineering Technology

1. Proficiency in Basic Training for Oil and Chemical Tanker Cargo Operations
2. Proficiency in Basic Training for Liquefied Gas Tanker Cargo Operations
3. Use of Electronic Charts Display and Information System (ECDIS)
4. Radar Navigation, Radar Plotting and Use of ARPA

Aviation Maintenance Engineering Technology (Airframe and Aeroengines)

1. Certificate of Recognition CAR 147 Approved Basic Training Course-License Category A
2. Certificate of Recognition CAR 147 Approved Basic Training Course-License Category B

3. Certificate of Recognition CAR 147 Approved Basic Theory Examination

Aeronautical, Mechanical and Mechatronics Engineering Technology

1. Certified SOLIDWORKS Associate (CSWA)

Programs and Campuses

The current programs being offered by the Faculty of Engineering Technology and Science are:

Degree	Offered at
Bachelor of Aeronautical Engineering Technology	Al Ain Women's
Bachelor of Aviation Maintenance Engineering Technology: Airframe and Aeroengines	Abu Dhabi Men's; Dubai Men's
Bachelor of Aviation Maintenance Engineering Technology: Avionics	Abu Dhabi Men's; Dubai Men's
Bachelor of Chemical Engineering Technology	Abu Dhabi Men's, Ruwais Men's, Ruwais Women's
Bachelor of Civil Engineering Technology	Abu Dhabi Men's, Dubai Men's
Bachelor of Electrical Engineering Technology	Al Ain Men's, Abu Dhabi Men's, Abu Dhabi Women's, Dubai Men's, Dubai Women's, Fujairah Men's, Fujairah Women's, Ras Al Khaimah Women's, Sharjah Men's, Sharjah Women's, Ruwais Men's, Ruwais Women's, Madinat Zayed Women's
Bachelor of Industrial Engineering Technology	Abu Dhabi Women's, Dubai Women's, Sharjah Women's
Bachelor of Logistics Engineering Technology	Abu Dhabi Men's
Bachelor of Mechanical Engineering Technology	Al Ain Men's, Abu Dhabi Men's, Dubai Men's, Fujairah Men's, Fujairah Women's, Ras Al Khaimah Men's, Sharjah Men's, Ruwais Men's
Bachelor of Mechatronics Engineering Technology	Dubai Men's, Ras Al Khaimah Men's
Bachelor of Applied Science in Marine Engineering Technology	Abu Dhabi Men's
Bachelor of Applied Science in Marine Transport	Abu Dhabi Men's
Bachelor of Applied Science in Maritime Engineering Technology and Naval Architecture	Abu Dhabi Men's

- c. Pass an Engineering Math Placement Test with a minimum score of 70 or has a score of 500 in SAT Subject test in Math or has a score of 900 in EmSAT Maths.
2. Conditional admission:
 - a. If the Physics placement test requirement is not met, admission is granted upon completion of the Pre-Physics course. Meanwhile student can proceed in his major as direct admission.
 - b. If the Engineering Math placement test requirement is not met, admission is granted upon completion of the Pre-Calculus course. Meanwhile student can proceed in his major as direct admission.

Completion Requirements

Bachelor Degree Completion Requirements

Students seeking the Engineering Technology Bachelor degree must successfully complete the following minimum requirements:

1. A minimum number of credit hours as shown in program completion requirements.
 - a. Program required courses including a work placement : see program completion requirements.
 - b. A minimum requirement of Math and Natural Science credit hours as per program completion requirements.
 - c. A minimum requirement of 33 credits in General Studies Courses according to the General Studies breakdown and as advised in the recommended sequence of study for each program.
 - d. Major electives: see program elective requirements.
2. Minimum CGPA of 2.00.

Admission Requirements

1. Direct admission:
 - a. Meet general admission criteria specified in Program Placement Procedures
 - b. Pass a Physics Placement Test with a minimum score of 70 or has a score of 450 in SAT Subject test in Physics or has a score of 750 in EmSAT Physics.