AERONAUTICAL ENGINEERING TECHNOLOGY (DAEET) : DIPLOMA

Diploma in Aeronautical Engineering Technology (DAEET)

Program Mission

Working in partnership with industry, the Diploma in Aeronautical Engineering Technology program provides guality education that prepares highly skilled technicians capable of serving the community and fulfilling personal ambitions with excellence. Graduates may choose to continue into the additional two years of the program to become innovative engineers.

Program Goal

The Program Educational Objectives of the Diploma in Aeronautical Engineering Technology program are to:

1. Provide Aeronautical Engineering Technology professionals with the technical knowledge and skills required by the industry to maintain aviation systems to highest level of industry standards.

2. Prepare graduates for a successful career with strong communication and teamwork skills and an understanding of the global, ethical and social implications of the aviation industry.

3. Provide graduates with strong commitment to lifelong learning, continuing education, and professional growth.

Program Learning Outcomes

Upon graduation, a HCT graduate in Diploma in Aeronautical Engineering Technology should demonstrate:

a. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve well# defined engineering problems appropriate to Aeronautical Engineering Technology.

b. An ability to design solutions for well#defined technical problems and assist with the engineering design of systems, components,or processes appropriate to Aeronautical Engineering Technology.

c. An ability to apply written, oral, and graphical communication in well# defined technical and non#technical environments; and an ability to identify and use appropriate technical literature.

d. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results.

e. An ability to function effectively as a member of a technical team.

Requirements Completion Requirements

Students seeking the Diploma in Aeronautical Engineering Technology degree must successfully complete the following minimum requirements:

1. A minimum of 81 credits, as follows:

· 39 credits of the program major, including Work Placement for 8 weeks

· A minimum of 15 credits of Mathematics and Science course requirements

· A minimum of 27 credits of the General Studies requirements according to the General Studies breakdown.

2. A minimum CGPA of 2.00

Major Code

Code	Title		Credit Hours	
Aeronautical Engineering Core Courses				
Required Credits :	39			
AET 2103	Fundamentals of	Flight	3	
AET 2403	Applied Thermoflu	uids	3	
AET 2902	Sophomore Desig	n Project	2	
AET 3503	Fixed And Rotary	Wing Assemblies	3	
AET 4613	Avionics Systems		3	
EGN 1133	Design Thinking in	n Technology	3	
EGN 2806	Work Placement I		6	
ELE 2153	Electrical Eng Fun	damentals	3	
MCE 2203	Applied Statics		3	
MCE 2213	Mechanics of Mat	terials	3	
MCE 2303	Material Selection	and Testing	3	
MCE 2311	Solid Modelling		1	
MTE 3603	Electronics System	ms and Circuits	3	
Mathematics and Science Courses				
Required Credits : 15				
CHM 1103	Engineering Chem	histry	3	
MTH 1103	Pre Calculus		3	
MTH 1203	Calculus I		3	
MTH 2103	Calculus II		3	
PHY 1203	Physics II		3	
General Studies				
Required Credits: 27				
English, Arabic or other Languages			9	
Humanities or Arts : AES 1003			3	
Information Technology and Mathematics:			6	
ICT 2013 and MTH 1113				
The Natural Sciences : PHY 1103			3	
The Social or Behavioral Sciences				
Description		Data		
Total Required Credits		81		
Maximum Duration of Study		3 years		
Cost Recovery Program		No		
Minimum Duration of Study		2 years		
Program Code		DAEET		

AET

1

Ideal Study Plan Recommended Sequence of Study

Year 1		
Semester 1		Credit
Semester 1		Hours
EGN 1133	Design Thinking in Technology	3
LSC 1103	Professional Communication and Reporting	3
LSS 1003	Life and Future Skills	
MTH 1103	1103 Pre Calculus	
PHY 1103	Physics I	3
	Credit Hours	15
Semester 2		
LSC 2103	Academic Reading and Writing II	3
LSS 1123	Basic Research Methods	3
MTH 1113	Statistics for Engineering	3
MTH 1203	Calculus I	3
PHY 1203	Physics II	3
	Credit Hours	15
Summer		
AES 1013	Arabic Communications I	3
CHM 1103	Engineering Chemistry	3
	Credit Hours	6
Year 2		
Semester 1		
AES 1003	Emirati Studies	3
ELE 2153	Electrical Eng Fundamentals	3
MTH 2103	Calculus II	3
MCE 2203	Applied Statics	3
MCE 2303	Material Selection and Testing	3
MCE 2311	Solid Modelling	1
	Credit Hours	16
Semester 2		
AET 2103	Fundamentals of Flight	3
AET 2403	Applied Thermofluids	3
AET 2902	Sophomore Design Project	2
ICT 2013	Computational Thinking and Coding	3
MCE 2213	Mechanics of Materials	3
MTE 3603	Electronics Systems and Circuits	3
	Credit Hours	17
Summer		
AET 3503	Fixed And Rotary Wing Assemblies	3
AET 4613	Avionics Systems	3
EGN 2806	Work Placement I *	6
	Credit Hours	12
	Total Credit Hours	81

*Work Placement I shall start after year 2 Summer Semester is completed.