



# ABU DHABI POLYTECHNIC

## Aircraft Engineering Technology AET





# Curriculum

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## Applied Bachelor in Aircraft Engineering Technology ABAET

### Aeromechanics



## General Courses

Course Code	Course Title	CR
ENGL 1001	English Skills	0
ENGL 1011	Academic English I	3
ENGL 1012	Academic English II	3
ENGL 2011	Public Speaking	1
ENGL 2012	Literature Review	1
ENGL 2013	Report Writing	1
MATH 1001	Precalculus	3
PHYS 1015	Physics I For Aviation	3
PHYS 1016	Physics I Lab. For Aviation	1
PHYS 1017	Physics II For Aviation	3
ICT 1011	Int. to Prog. & Prob. Solving	3
HUM 1013	Arabic Communications (W.B.)	3
HUM 1011	Islamic Culture	3
MATH 1010	Calculus I	3
HUM 1012	Emirates Society & Culture	3
HUM 3011	Creativity, Innovation and Entrepreneurship	3

Credit Hours 37

CR = Credit Hours

# ABAET - Aeromechanics

## Core Area Courses

Course Code	Course Title	CR
AETM 2110	Adv. Materials & Hardware I	2
AETM 2112	Adv. Aerodynamics	3
AETM 2113	Adv. Aerodynamics Lab	1
AETM 2120	Adv. Maint. Prac. I	3
AETM 2121	Adv. Maint. Prac. I Lab	2
AETM 2122	Adv. Maint. Prac. II	3
AETM 2210	Adv. Materials & Hardware II	2
AETM 2212	Adv. Maint. Prac. III	3
AETM 2213	Adv. Maint. Prac. III Lab	1
AETM 2214	Adv. Maint. Prac. IV	3
AETM 2215	Adv. Maint. Prac. IV Lab.	2
AETM 2310	Adv. Maint. Prac. V	3
AETM 2311	Adv. Maint. Prac. V Lab	2
AETV 1010	Electrical Engineering I	3
AETV 1011	Electrical Engineering I Lab	1
AETV 1020	Electrical Engineering II	3
AETV 1021	Electrical Engineering II Lab	1
AETM 2010	Human Factors	3
AETM 2012	Aviation Legislation-GCAA	2
AETM 2014	Aviation Legislation-EASA	2

Credit Hours 45

CR = Credit Hours

## Aeromechanics Specialization Courses

Course Code	Course Title	CR
AETV 2008	Electronics for B1	2
AETV 2009	Electronics Lab for B1	1
AETV 2018	Digital Techniques for B1	3
AETV 2019	Digital Tech Lab for B1	1
AETM 3110	Gas Turbine Engines I	3
AETM 3120	Adv.AC Systems and Comp I	3
AETM 3122	Adv. A/C Systems & Components II	3
AETM 3210	Gas Turbine Engines II	2
AETM 3211	Gas Turbine Engines II Lab	1
AETM 3212	Propellers	3
AETM 3220	Adv. A/C Systems & Components III	3
AETM 3221	Adv. A/C Systems & Components III Lab	1
AETM 3224	Adv. A/C Systems & Components IV	3
AETM 3225	Adv. A/C Systems & Components IV Lab	1
AETM 4101	Aircraft Materials and Structures	3
AETM 4102	Advanced Aerodynamics	3
AETM 4103	Aircraft Components Modeling and Design	3
AETM 4104	Flight Stability and Control	3
AETM 4105	Inspection Procedures	3

Credit Hours 45

CR = Credit Hours



# ABAET - Aeromechanics

## Graduation Project Courses

Course Code	Course Title	CR
AETM 3080	Graduation Project I	3
AETM 4080	Graduation Project II	3

Credit Hours 6

## Elective courses

Course Code	Course Title	CR
AMT 407	Aircraft Line, Base and Components Maintenance	3
AETM 4201	Aircraft Performance and Design	3
AVSC 403	Safety Management Systems	3

Credit Hours 3

## On Job Training Courses

Course Code	Course Title	CR
AETM 3099	OJT / Internship	6

Credit Hours 6

Total credit hours 142

CR = Credit Hours



## Curriculum



### Applied Bachelor in Aircraft Engineering Technology ABAET

### Avionics



## General Education Courses

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ENGL 1001	English Skills	0
ENGL 1011	Academic English I	3
ENGL 1012	Academic English II	3
ENGL 2011	Public Speaking	1
ENGL 2012	Literature Review	1
ENGL 2013	Report Writing	1
MATH 1001	Precalculus	3
PHYS 1015	Physics I For Aviation	3
PHYS 1016	Physics I Lab. For Aviation	1
PHYS 1017	Physics II For Aviation	3
ICT 1011	Int. to Prog. & Prob. Solving	3
HUM 1013	Arabic Communications (W.B.)	3
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HUM 1012	Emirates Society & Culture	3
HUM 3011	Creativity, Innovation and Entrepreneurship	3

Credit Hours 37

CR = Credit Hours



## Core Area Courses

Course Code	Course Title	CR
AETM 2110	Adv. Materials & Hardware I	2
AETM 2112	Adv. Aerodynamics	3
AETM 2113	Adv. Aerodynamics Lab	1
AETM 2120	Adv. Maint. Prac. I	3
AETM 2121	Adv. Maint. Prac. I Lab	2
AETM 2122	Adv. Maint. Prac. II	3
AETM 2210	Adv. Materials & Hardware II	2
AETM 2212	Adv. Maint. Prac. III	3
AETM 2213	Adv. Maint. Prac. III Lab	1
AETM 2214	Adv. Maint. Prac. IV	3
AETM 2215	Adv. Maint. Prac. IV Lab	2
AETM 2310	Adv. Maint. Prac. V	3
AETM 2311	Adv. Maint. Prac. V Lab	2
AETV 1010	Electrical Engineering I	3
AETV 1011	Electrical Engineering I Lab	1
AETV 1020	Electrical Engineering II	3
AETV 1021	Electrical Engineering II Lab	1
AETM 2010	Human Factors	3
AETM 2012	Aviation Legislation-GCAA	2
AETM 2014	Aviation Legislation-EASA	2

Credit Hours 45

CR = Credit Hours

## Avionics Specialization Courses

Course Code	Course Title	CR
AETV 2010	Electronics for B2	3
AETV 2011	Electronics Lab. for B2	1
AETV 2020	Digital Techniques I for B2	3
AETV 2021	Digital Techniques I Lab for B2	1
AETV 2022	Digital Techniques II for B2	3
AETV 2023	Digital Techniques II Lab for B2	1
AETV 3010	Propulsion and FADEC	2
AETV 3110	Avionics System I	3
AETV 3111	Avionics System I Lab.	1
AETV 3112	Avionics System II	3
AETV 3113	Avionics System II Lab	1
AETV 3210	Avionics System III	3
AETV 3211	Avionics System III Lab	1
AETV 3212	Avionics System IV	3
AETV 3213	Avionics System IV Lab	1
AETV 4101	Antenna, Radar & Navigation	3
AETV 4102	Flight Control Theory	3
AETV 4104	Aircraft Reliability & Fault Diagnosis	3
AETM 4105	Inspection Procedures	3
AETV 4201	Avionics System Integration	3

Credit Hours 45

CR = Credit Hours

## Graduation Project Courses

Course Code	Course Title	CR
AETV 3080	Graduation Project I	3
AETV 4080	Graduation Project II	3

Credit Hours 6

## Elective Courses

Course Code	Course Title	CR
AMT 407	Aircraft Line, Base and Components Maintenance	3
AVSC 403	Safety Management Systems	3
AETV 4202	Unmanned Airborne System	3
AETV 4103	Embedded Systems	3

Credit Hours 3

## On Job Training Courses

Course Code	Course Title	CR
AETV 3099	OJT / Internship	6

Credit Hours 6

Total credit hours 142

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October 2024