



# ABU DHABI POLYTECHNIC

## Aircraft Maintenance Technology AMT





## Study Plan



# Applied Bachelor in Aircraft Maintenance Engineering ABAME

## Aeromechanics

# ABAME - Aeromechanics

Year 1

Semester	Course Code	Course Title	LT	PT	TT	CH	CR
Fall	MATH1005	Mathematics For Aviation- CAT A	3	0	1	4	3
	PHYS1019	Physics for Maintenance Engineering (Mod 2A)	3	1	1	5	3
	ICT1011	Intro to Prog. & Prob. Solving	2	2	0	4	3
	ENGL1001	English Skills	1	2	0	3	0
	HUM1011	Islamic Culture	3	0	0	3	3
	HUM1012	Emirates Society & Culture	3	0	0	3	3
Spring	AMEV1201	Electrical Fundamentals (Mod 3A)	3	1	0	4	3
	AMEM1201	Materials & Hardware (Mod 6A)	2	0	0	2	2
	AMEM1206	MOD 6A-OCT1	0	3	0	3	1
	AMEM2102	Basic Aerodynamics (8 A)	2	0	0	2	2
	AMEM1301	Human Factors (Mod 9A)	2	0	0	2	2
	ENGL1011	Academic English I	2	2	0	4	3
Summer	AMAV1301	Electronics (4 A)	2	2	0	4	3
	AMEV2101	Basic Digital Techniques (Mod 5 A)	2	1	0	3	2
	ENGL1012	Academic English II	2	2	0	4	3

Year 2

Semester	Course Code	Course Title	LT	PT	TT	CH	CR
Fall	AMEM1202	Maintenance Practices I (Mod 7A)	2	0	0	2	2
	AMEM1207	MOD 7A1-OCT2	0	3	0	3	1
	AMEM2103	Maintenance Practices II (7 A)	1	2	0	3	2
	AMEM2202	Maintenance Practices III (7 A)	1	2	0	3	2
	AMEM2203	Maintenance Practices IV (7 A)	1	2	0	3	2
	AMEM2206	MOD 7A2-OCT5	0	3	0	3	1
	AMEM2207	MOD 7A3-OCT6	0	3	0	3	1
	ENG2011	Public Speaking	1	0	1	2	1
	ENGL2012	Literature Review	1	0	1	2	1
Spring	AMEM2201	Aviation Legislation (Mod 10 A)/ Aviation Legislation GCAA	2	0	1	3	2
	AMEM2104	Aircraft Sys & Components I (11 A)	3	0	0	3	3
	AMEM2106	MOD 11A-OCT3	0	2	0	2	1
	AMEM2204	Aircraft Sys. & Components II (11 A)	2	2	0	4	3
	AMEM2105	Gas Turbine Engines (15 A)	3	0	0	3	3
	AMEM2107	MOD 15A-OCT4	0	3	0	3	1
	AMT2205	Propellers (17 A)	2	0	0	2	2
Summer	AMEM2090	OJT / Internship	0	360	0	360	6

# ABAME - Aeromechanics

Year 3

Semester	Course Code	Course Title	LT	PT	TT	CH	CR
Fall	AMEM3101	Adv. Aerodynamics (8 B1)	3	1	2	6	3
	AMEM3102	Adv. Materials & Hardware (6 B1)	3	2	1	6	4
	AMEM 3103	Adv. Maintenance Practices I (7 B1)	2	3	1	6	3
	AMEM 3104	Adv. Aircraft Sys. & Components I (11B1)	3	1	2	6	3
	AMEV 3101	Electrical Engineering I (3B)	3	0	1	4	3
	AMEV3102	Electrical Engineering I (3B) Lab.	0	3	0	3	1
Spring	AMEM3202	Adv. Maintenance Practices II (7 B1)	2	3	1	6	3
	AMEM3203	Adv. Aircraft Sys. & Components II (11 B1)	3	1	2	6	3
	AMEM3204	Adv. Gas Turbine Engines (15 B1)	2	2	2	6	3
	MATH 1010	Calculus I	3	0	0	3	3
	ENGL 2013	Report Writing	1	2	0	3	1
	AMEM3301	Adv. Propellers (17 B1)	2	1	0	3	2
Summer	HUM1013	Arabic Communication Skills	3	0	0	3	3
	AMEV3302	Digital Techniques I (5 B1)	2	2	1	5	3

Year 4

Semester	Course Code	Course Title	LT	PT	TT	CH	CR
Fall	AMEM 4101	Aircraft Maintenance Strategies	3	0	1	4	3
	AMEM 4102	Aircraft Structural Analysis	3	0	1	4	3
	AMEM 4103	Analysis of Aircraft value and	3	0	1	4	3
	AMEM 4901	Graduation Project I	3	0	0	3	3
	AMEM 4104	Inspection Procedures	3	1	0	4	3
Spring	AMEM 4201	Aircraft Structural Repair	3	1	1	4	3
	AMEM 4202	Aircraft Accident Investigation and Prevention	3	0	1	4	3
	AMEM 4902	Graduation Project II	3	0	1	4	3
	HUM 3011	Creativity, Innovation and Entrepreneurship	3	0	1	4	3
		Elective	3	0	0	3	3

Total Credit Hours: 138

\* Summer contact hours (CH) are not doubled



# ABAMM - Aeromechanics

Legend	
<b>LT</b>	Lecture Hours
<b>PT</b>	Lab Hours
<b>TT</b>	Tutorial Hours
<b>CH</b>	Contact Hours
<b>CR</b>	Credit Hours

Elective Courses		
Course Code	Course Name	CR
AMEM 4301	Analysis of Aircraft Maintenance and Procedures	3
AMEM 4302	Aircraft Materials and Processes	3
AMEM 4303	Aircraft Mass and Balance	3
AMEM 4305	Aircraft Maintenance and Flight Line Safety	3
AMEV 4301	Artificial Intelligence in Aircraft Maintenance	3
AMT 408	Aviation Inventory and Logistics	3
AMEV 4302	Aircraft Electrical Systems	3



## Study Plan



# Applied Bachelor in Aircraft Maintenance Engineering ABAME

## Avionics

# ABAME - Avionics

Year 1

Semester	Course Code	Course Title	LT	PT	TT	CH	CR
Fall	MATH1005	Mathematics For Aviation- CAT A	3	0	1	4	3
	PHYS1019	Physics for Maintenance Engineering (Mod 2A)	3	1	1	5	3
	ICT1011	Intro to Prog. & Prob. Solving	2	2	0	4	3
	ENGL1001	English Skills	1	2	0	3	0
	HUM1011	Islamic Culture	3	0	0	3	3
	HUM1012	Emirates Society & Culture	3	0	0	3	3
Spring	AMEV1201	Electrical Fundamentals (Mod 3A)	3	1	0	4	3
	AMEM1201	Materials & Hardware (Mod 6A)	2	0	0	2	2
	AMEM1206	MOD 6A-OCT1	0	3	0	3	1
	AMEM2102	Basic Aerodynamics (8 A)	2	0	0	2	2
	AMEM1301	Human Factors (Mod 9A)	2	0	0	2	2
	ENGL1011	Academic English I	2	2	0	4	3
Summer	AMAV1301	Electronics (4 A)	2	2	0	4	3
	AMEV2101	Basic Digital Techniques (Mod 5 A)	2	1	0	3	2
	ENGL1012	Academic English II	2	2	0	4	3

Year 2

Semester	Course Code	Course Title	LT	PT	TT	CH	CR
Fall	AMEM1202	Maintenance Practices I (Mod 7A)	2	0	0	2	2
	AMEM1207	MOD 7A1-OCT2	0	3	0	3	1
	AMEM2103	Maintenance Practices II (7 A)	1	2	0	3	2
	AMEM2202	Maintenance Practices III (7 A)	1	2	0	3	2
	AMEM2203	Maintenance Practices IV (7 A)	1	2	0	3	2
	AMEM2206	MOD 7A2-OCT5	0	3	0	3	1
	AMEM2207	MOD 7A3-OCT6	0	3	0	3	1
	ENG2011	Public Speaking	1	0	1	2	1
	ENGL2012	Literature Review	1	0	1	2	1
Spring	AMEM2201	Aviation Legislation (Mod 10 A)/ Aviation Legislation GC	2	0	1	3	2
	AMEM2104	Aircraft Sys & Components I (11 A)	3	0	0	3	3
	AMEM2106	MOD 11A-OCT3	0	2	0	2	1
	AMEM2204	Aircraft Sys. & Components II (11 A)	2	2	0	4	3
	AMEM2105	Gas Turbine Engines (15 A)	3	0	0	3	3
	AMEM2107	MOD 15A-OCT4	0	3	0	3	1
	AMT2205	Propellers (17 A)	2	0	0	2	2
Summer	AMEM2090	OJT / Internship	0	360	0	360	6

# ABAME - Avionics

Year 3

Semester	Course Code	Course Title	LT	PT	TT	CH	CR
Fall	AMEM3101	Adv. Aerodynamics (8 B1)	3	1	2	6	3
	AMEM3102	Adv. Materials & Hardware (6 B1)	3	2	1	6	4
	AMEM3103	Adv. Maintenance Practices I (7 B1)	2	3	1	6	3
	AMEV3101	Electrical Engineering I (3B)	3	0	1	4	3
	AMEV3102	Electrical Engineering I (3B) Lab.	0	3	1	4	1
	AMEV3103	Electronic Comm. Tech.	1	2	2	5	2
Spring	AMEM 3202	Adv. Maintenance Practices II (7 B1)	2	3	1	6	3
	AMEV3202	Avionics Systems I (13 B2)	2	3	2	7	3
	AMEV3203	Props and FADEC (14 B2)	3	1	0	4	3
	MATH 1010	Calculus I	3	0	0	3	3
	ENGL 2013	Report Writing	1	2	0	3	1
	HUM 1013	Arabic Communication Skills	3	0	0	3	3
Summer	AMEV3301	Avionics Systems II (13 B2)	2	2	1	5	3
	AMEV3302	Digital Techniques I (5 B1)	2	2	1	5	3

Year 4

Semester	Course Code	Course Title	LT	PT	TT	CH	CR
Fall	AMEM 4101	Aircraft Maintenance Strategies	3	0	1	4	3
	AMEV 4102	Automatic Flight Control Systems Maintenance	3	0	1	4	3
	AMEM 4103	Analysis of Aircraft value and maintenance cost	3	0	1	4	3
	AMEV 4901	Graduation Project I	3	0	0	3	3
	AMEM 4104	Inspection Procedures	3	1	0	4	3
Spring	AMEV 4201	Avionics and Instrumentation Systems Maintenance	3	0	1	4	3
	AMEV4202	Aircraft Communication and Navigation systems	3	0	1	4	3
	AMEV 4902	Graduation Project II	3	0	1	4	3
	HUM 3011	Creativity, Innovation and Entrepreneurship	3	0	1	4	3
		Elective	3	0	1	4	3

Total Credit Hours: 138

\* Summer contact hours (CH) are not doubled



# ABAME - Avionics

Legend	
LT	Lecture Hours
PT	Lab Hours
TT	Tutorial Hours
CH	Contact Hours
CR	Credit Hours

Elective Courses		
Course Code	Course Name	CR
AMEM 4301	Analysis of Aircraft Maintenance and Procedures	3
AMEM 4302	Aircraft Materials and Processes	3
AMEM 4303	Aircraft Mass and Balance	3
AMEM 4305	Aircraft Maintenance and Flight Line Safety	3
AMEV 4301	Artificial Intelligence in Aircraft Maintenance	3
AMT 408	Aviation Inventory and Logistics	3
AMEV 4302	Aircraft Electrical Systems	3



# ABU DHABI POLYTECHNIC

Applied Bachelor in Aircraft Maintenance Engineering  
ABAME

October 2024