



ABU DHABI POLYTECHNIC

Aircraft Maintenance Technology AMT





Study Plan



Applied Bachelor in Aircraft Maintenance Management ABAMM

Aeromechanics



ABAMM - 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
	PHYS 1018	Physics for Aviation CAT A	3	0	1	4	3
	PHYS 1016	Physics Lab for Aviation CAT A	0	3	0	3	1
	ICT 110	Intro. to Programming & Prob Solving + Lab	2	2	0	4	3
	ENGL 120	English Skills	3	0	0	3	0
	AMT 101	W/S Practices/Orientation	2	4	0	6	2
	HUM1013	Arabic Communication Skills	3	0	0	3	3
Spring	AVT 210	Electrical Engineering I (3 B)	3	0	2	5	3
	AVT 210P	Electrical Engineering I (3 B) Lab.	0	3	1	4	1
	HUM 111	Islamic Culture	3	0	0	3	3
	ENGL 121	Academic English I	3	0	0	3	3
	AMT 114	Materials and Hardware (6 A)	2	2	1	5	3
	AMT 113	Maintenance Practices I (7 A)	2	3	2	7	3
Summer	ENGL 122	Academic English II	3	0	0	3	3
	AVT 211	Electrical Engineering II (3 B)	3	0	2	5	3
	AVT 211P	Electrical Engineering II (3 B) Lab.	0	3	1	4	1

Year 2

Semester	Course Code	Course Title	LT	PT	TT	CH	CR
Fall	AVSC 210	Human Factors (9 B)	3	0	1	4	3
	AVN 112	Electronics	2	2	1	5	3
	AMT 115	Basic Aerodynamics (8 A)	2	1	1	4	2
	AMT 117	Maintenance Practices II (7A)	2	3	2	7	3
	AMT 116	Aircraft Systems & Components I (11 A)	2	3	1	6	3
	AMT 223	Turbine Engines (15 A)	2	2	0	4	3
	ENGL2012	Literature Review	1	0	1	2	1
Spring	AVSC 220	Aviation Legislation (10 B)	3	0	2	5	3
	AMT 121	Maintenance Practices III (7 A)	1	6	0	7	3
	AMT 124	Maintenance Practices IV (7 A)	1	6	0	7	3
	AVT 123	Fund. Digital Techniques (5 A)	2	2	4	8	3
	AMT 221	Aircraft Systems & Components II (11 A)	3	3	0	6	4
	AMT 225	Propellers (17 A)	2	0	0	2	2
Summer	AMT 240	OJT / Internship	0	400	0	400	3

ABAMM - Aeromechanics

Year 3

Semester	Course Code	Course Title	LT	PT	TT	CH	CR
Fall	AMT 211	Materials & Hardware I (6 B1)	2	3	0	5	3
	AMT 214	Aerodynamics (8 B1)	3	1	2	6	3
	AMT 215	Maintenance Practices I (7 B1)	2	3	2	7	3
	AVT 311	Electronic Communication Technology	2	3	0	5	3
	AVT 321	Digital Techniques I (5 B1)	2	3	1	6	3
	AMT 230	Aircraft Systems & Components I (11 B1)	3	1	2	6	3
Spring	AMT 222	Mat. & Hardware II (6 B1)	2	1	2	5	3
	AMT 217	Maintenance Practices II (7 B1)	2	3	2	7	3
	AMT 234	Air. Systems & Components II (11 B1)	3	1	4	8	3
	AMT 324	Turbine Engines (15 B1) with Lab.	2	3	3	8	3
	AMT 336	Propellers (17 B1)	2	1	1	4	2
	HUM 112	Emirates Society and Culture	3	0	0	3	3
Summer	ENG2011	Public Speaking	1	0	1	2	1
	AVSC 225	Aviation Legislation -GCAA	3	0	2	5	3
	HUM 402	Creativity, Innovation & Entrepreneurship	3	0	0	3	3

Year 4

Semester	Course Code	Course Title	LT	PT	TT	CH	CR
Fall	AMT 403	Principle of Business for Engineers	3	0	0	3	3
	AMT 404	Aviation Maintenance Technology and Management	3	0	0	3	3
	AMT 405	Aircraft Structural Analysis	3	0	0	3	3
	AMT 420	Graduation Project - Part I	1	0	0	1	1
	MATH 1010	Calculus I	3	0	0	3	3
	ENGL 2013	Report Writing	1	2	0	3	1
		Elective I	3	0	0	3	3
Spring	AMT 406	Inspection Procedures	3	0	0	3	3
	AMT 407	Aircraft Line, Base and Component Maintenance	3	0	0	3	3
	AMT 408	Aviation Inventory and Logistics	3	0	0	3	3
	AMT 420	Graduation Project - Part II	3	0	0	3	3
		Elective II	3	0	0	3	3
		Elective III	3	0	0	3	3

Total Credit Hours: 154

* Summer contact hours (CH) are not doubled

ABAMM - Aeromechanics

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

Elective Courses		
Code	Course Name	CR
AMT 409	Quality Assurance	3
AMT 410	Project Management	3
AMT 411	Automatic Flight Control Systems Maintenance	3
AVT 402	Advanced Flight Instrument Systems	3
AVSC 401	Introduction of Marketing	3
AVSC 402	Aviation Economics	3
AVSC 403	Safety Management Systems	3



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Avionics



ABAMM - 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
	PHYS 1018	Physics for Aviation CAT A	3	0	1	4	3
	PHYS 1016	Physics Lab for Aviation CAT A	0	3	0	3	1
	ICT 110	Intro. to Programming & Prob Solving + Lab	2	2	0	4	3
	ENGL 120	English Skills	3	0	0	3	0
	AMT 101	W/S Practices/Orientation	2	4	0	6	2
	HUM1013	Arabic Communication Skills	3	0	0	3	3
Spring	AVT 210	Electrical Engineering I (3 B)	3	0	2	5	3
	AVT 210P	Electrical Engineering I (3 B) Lab.	0	3	1	4	1
	HUM 111	Islamic Culture	3	0	0	3	3
	ENGL 121	Academic English I	3	0	0	3	3
	AMT 114	Materials and Hardware (6 A)	2	2	1	5	3
	AMT 113	Maintenance Practices I (7 A)	2	3	2	7	3
Summer	ENGL 122	Academic English II	3	0	0	3	3
	AVT 211	Electrical Engineering II (3 B)	3	0	2	5	3
	AVT 211P	Electrical Engineering II (3 B) Lab.	0	3	1	4	1

Year 2

Semester	Course Code	Course Title	LT	PT	TT	CH	CR
Fall	AVSC 210	Human Factors (9 B)	3	0	1	4	3
	AVN 112	Electronics	2	2	1	5	3
	AMT 115	Basic Aerodynamics (8 A)	2	1	1	4	2
	AMT 117	Maintenance Practices II (7A)	2	3	2	7	3
	AMT 116	Aircraft Systems & Components I (11 A)	2	3	1	6	3
	AMT 223	Turbine Engines (15 A)	2	2	0	4	3
	ENGL2012	Literature Review	1	0	1	2	1
Spring	AVSC 220	Aviation Legislation (10 B)	3	0	2	5	3
	AMT 121	Maintenance Practices III (7 A)	1	6	0	7	3
	AMT 124	Maintenance Practices IV (7 A)	1	6	0	7	3
	AVT 123	Fund. Digital Techniques (5 A)	2	2	4	8	3
	AMT 221	Aircraft Systems & Components II (11 A)	3	3	0	6	4
	AMT 225	Propellers (17 A)	2	0	0	2	2
Summer	AMT 240	OJT / Internship	0	400	0	400	3

ABAMM - Avionics

Year 3

Semester	Course Code	Course Title	LT	PT	TT	CH	CR
Fall	AMT 211	Materials & Hardware I (6 B1)	2	3	0	5	3
	AMT 214	Aerodynamics (8 B1)	3	1	2	6	3
	AMT 215	Maintenance Practices I (7 B1)	2	3	2	7	3
	AVT 311	Electronic Communication Technology	2	3	0	5	3
	AVT 321	Digital Techniques I (5 B1)	2	3	1	6	3
	AVT 327	Avionics Systems I (13 B2)	3	3	2	8	4
Spring	AMT 222	Mat. & Hardware II (6 B1)	2	1	2	5	3
	AMT 217	Maintenance Practices II (7 B1)	2	3	2	7	3
	AVT 333	Avionics Systems II (13 B2)	3	3	2	8	4
	AVT326	Props and FADEC (14 B2)	3	1	0	4	3
	HUM 112	Emirates Society and Culture	3	0	0	3	3
	ENGL 2013	Report Writing	1	2	0	3	1
Summer	ENG2011	Public Speaking	1	0	1	2	1
	AVSC 225	Aviation Legislation -GCAA	3	0	2	5	3
	HUM 402	Creativity, Innovation & Entrepreneurship	3	0	0	3	3

Year 4

Semester	Course Code	Course Title	LT	PT	TT	CH	CR
Fall	AMT 403	Principle of Business for Engineers	3	0	0	3	3
	AMT 404	Aviation Maintenance Technology and Management	3	0	0	3	3
	AMT 405	Aircraft Structural Analysis	3	0	0	3	3
	AMT 420	Graduation Project - Part I	1	0	0	1	1
	MATH 1010	Calculus I	3	0	0	3	3
		Elective I	3	0	0	3	3
Spring	AMT 406	Inspection Procedures	3	0	0	3	3
	AMT 407	Aircraft Line, Base and Component Maintenance	3	0	0	3	3
	AMT 408	Aviation Inventory and Logistics	3	0	0	3	3
	AMT 420	Graduation Project - Part II	3	0	0	3	3
		Elective II	3	0	0	3	3
		Elective III	3	0	0	3	3

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AMT 409	Quality Assurance	3
AMT 410	Project Management	3
AMT 411	Automatic Flight Control Systems Maintenance	3
AVT 402	Advanced Flight Instrument Systems	3
AVSC 401	Introduction of Marketing	3
AVSC 402	Aviation Economics	3
AVSC 403	Safety Management Systems	3



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October 2024