

Applied Bachelor in Aircraft Maintenance Engineering Study Plan

First Year

Fall Semester							Spring Semester							Summer Semester						
Course Code	Course Title	LT	PT	TT	CH	CR	Course Code	Course Title	LT	PT	TT	CH	CR	Course Code	Course Title	LT	PT	TT	CH	CR
MATH1001	Pre-Calculus (Mod 1A) MPE≥70, EmSAT≥1500)	3	0	1	4	3	AMEV1201	Electrical Fundamentals (Mod 3A)	3	1	0	4	3	AMAV1301	Electronics (4 A)	2	2	0	4	3
PHYS1015	Physics I for Aviation (Mod 2A)	3	1	1	5	3	AMEM1201	Materials & Hardware (Mod 6A)	2	0	0	2	2	AMEV2101	Basic Digital Techniques (Mod 5 A)	2	1	0	3	2
ICT1011	Intro to Prog. & Prob. Solving	2	2	0	4	3	AMEM1206	MOD 6A-OCT1	0	3	0	3	1	ENGL1012	Academic English II	2	2	0	4	3
ENGL1001	English Skills EmSAT≥1300, IELTS ≥ 5.5)	1	2	0	3	0	AMEM2102	Basic Aerodynamics (8 A)	2	0	0	2	2							
HUM1011	Islamic Culture	3	0	0	3	3	AMEM1301	Human Factors (Mod 9A)	2	0	0	2	2							
HUM1012	Emirates Society & Culture	3	0	0	3	3	ENGL1011	Academic English I	2	2	0	4	3							
Total	6	15	5	2	22	15		6	11	6	0	17	13	3		6	5	0	11	8

Second Year

Fall Semester							Spring Semester							Summer Semester							
Course Code	Course Title	LT	PT	TT	CH	CR	Course Code	Course Title	LT	PT	TT	CH	CR	Course Code	Course Title	LT	PT	TT	CH	CR	
AMEM1202	Maintenance Practices I (Mod 7A)	2	0	0	2	2	AMEM2201	Aviation Legislation (Mod 10 A)/ Aviation Legislation GCAA	2	0	1	3	2	AMEM2090	OJT / Internship					360	6
AMEM1207	MOD 7A1-OCT2	0	3	0	3	1	AMEM2104	Aircraft Sys & Components I (11 A)	3	0	0	3	3								
AMEM2103	Maintenance Practices II (7 A)	1	2	0	3	2	AMEM2106	MOD 11A-OCT3	0	2	0	2	1								
AMEM2202	Maintenance Practices III (7 A)	1	2	0	3	2	AMEM2204	Aircraft Sys. & Components II (11 A)	2	2	0	4	3								
AMEM2203	Maintenance Practices IV (7 A)	1	2	0	3	2	AMEM2105	Gas Turbine Engines (15 A)	3	0	0	3	3								
AMEM2206	MOD 7A2-OCT5	0	3	0	3	1	AMEM2107	MOD 15A-OCT4	0	3	0	3	1								
AMEM2207	MOD 7A3-OCT6	0	3	0	3	1	AMT2205	Propellers (17 A)	2	0	0	2	2								
ENG2011	Public Speaking (Blended L.)	1	0	1	2	1															
ENGL2012	Literature Review (Blended L.)	1	0	1	2	1															
Total	9	7	15	2	24	13		7	10	7	1	20	15	1					360	6	

Aeromechanics

Third Year – Aeromechanics

Fall Semester							Spring Semester						Summer Semester							
Course Code	Course Title	LT	PT	TT	CH	CR	Course Code	Course Title	LT	PT	TT	CH	CR	Course Code	Course Title	LT	PT	TT	CH	CR
AMEM3101	Adv. Aerodynamics (8 B1)	3	1	2	6	3	AMEM3202	Adv. Maintenance Practices II (7 B1)	2	3	1	6	3	HUM1013	Arabic Communication Skills (distance learning)	3	0	0	3	3
AMEM3102	Adv. Materials & Hardware (6 B1)	3	2	1	6	4	AMEM3203	Adv. Aircraft Sys. & Components II (11 B1)	3	1	2	6	3	AMEV3302	Digital Techniques I (5 B1)	2	2	1	5	3
AMEM 3103	Adv. Maintenance Practices I (7 B1)	2	3	1	6	3	AMEM3204	Adv. Gas Turbine Engines (15 B1)	2	2	2	6	3							
AMEM 3104	Adv. Aircraft Sys. & Components I (11B1)	3	1	2	6	3	MATH 1011	Calculus I	3	0	0	3	3							
AMEV 3101	Electrical Engineering I (3B)	3	0	1	4	3	ENGL 2013	Report Writing	1	2	0	3	1							
AMEV3102	Electrical Engineering I (3B) Lab.	0	3	0	3	1	AMEM3301	Adv. Propellers (17 B1)	2	1	0	3	2							
Total	6	14	9	6	29	17		6	14	9	5	28	15	2		5	2	1	8	6

Fourth Year Aeromechanics

Fall Semester							Spring Semester						Summer Semester							
Course Code	Course Title	LT	PT	TT	CH	CR	Course Code	Course Title	LT	PT	TT	CH	CR	Course Code	Course Title	LT	PT	TT	CH	CR
AMEM 4101	Aircraft Maintenance Strategies	3	0	1	4	3	AMEM 4201	Aircraft Structural Repair	3	1	1	4	3							
AMEM 4102	Aircraft Structural Analysis	3	0	1	4	3	AMEM 4202	Aircraft Accident Investigation and Prevention	3	0	1	4	3							
AMEM 4103	Analysis of Aircraft value and maintenance cost	3	0	1	4	3	AMEM 4902	Graduation Project II	3	0	1	4	3							
AMEM 4901	Graduation Project I	3	0	0	3	3	HUM 3011	Creativity, Innovation and Entrepreneurship	3	0	1	4	3							
AMEM 4104	Inspection Procedures	3	1	0	4	3	xxxx	Elective	3	0	0	3	3							
Total		15	0	2	18	15		6	15	1	5	20	15							

Avionics

Third Year – Avionics

Fall Semester							Spring Semester						Summer Semester							
Course Code	Course Title	LT	PT	TT	CH	CR	Course Code	Course Title	LT	PT	TT	CH	CR	Course Code	Course Title	LT	PT	TT	CH	CR
AMEM3101	Adv. Aerodynamics (8 B1)	3	1	2	6	3	AMEM 3202	Adv. Maintenance Practices II (7 B1)	2	3	1	6	3	AMEV3301	Avionics Systems II (13 B2)	2	2	1	5	3
AMEM3102	Adv. Materials & Hardware (6 B1)	3	2	1	6	4	AMEV3202	Avionics Systems I (13 B2)	2	3	2	7	3	AMEV3302	Digital Techniques I (5 B1)	2	2	1	5	3
AMEM3103	Adv. Maintenance Practices I (7 B1)	2	3	1	6	3	AMEV3203	Props and FADEC (14 B2)	3	1	0	4	3							
AMEV3101	Electrical Engineering I (3B)	3	0	1	4	3	MATH 1011	Calculus I	3	0	0	3	3							
AMEV3102	Electrical Engineering I (3B) Lab.	0	3	1	4	1	ENGL 2013	Report Writing	1	2	0	3	1							
AMEV3103	Electronic Comm. Tech.	1	2	2	5	2	HUM 1013	Arabic Communication Skills (distance learning)	3	0	0	3	3							
Total	6	13	10	6	29	16		5	14	9	3	26	16	3		4	4	2	10	6

Fourth Year - Avionics

Fall Semester							Spring Semester						Summer Semester							
Course Code	Course Title	LT	PT	TT	CH	CR	Course Code	Course Title	LT	PT	TT	CH	CR	Course Code	Course Title	LT	PT	TT	CH	CR
AMEM 4101	Aircraft Maintenance Strategies	3	0	1	4	3	AMEV 4201	Avionics and Instrumentation Systems Maintenance	3	0	1	4	3							
AMEV 4102	Automatic Flight Control Systems Maintenance	3	0	1	4	3	AMEV4202	Aircraft Communication and Navigation systems	3	0	1	4	3							
AMEM 4103	Analysis of Aircraft value and maintenance cost	3	0	1	4	3	AMEV 4902	Graduation Project II	3	0	1	4	3							
AMEV 4901	Graduation Project I	3	0	0	3	3	HUM 3011	Creativity, Innovation and Entrepreneurship	3	0	1	4	3							
AMEM 4104	Inspection Procedures	3	1	0	4	3	xxxx	Elective	3	0	1	4	3							
Total		15	2	3	19	15			15	0	0	20	15							

ABAME Elective Courses' list

SN	Course Code	Course Name	Credit Hours
1	AMEM 4301	Analysis of Aircraft Maintenance and Procedures	3
2	AMEM 4302	Aircraft Materials and Processes	3
3	AMEM 4303	Aircraft Mass and Balance	3
4	AMEM 4305	Aircraft Maintenance and Flight Line Safety	3
5	AMEV 4301	Artificial Intelligence in Aircraft Maintenance	3
7	AMT 408	Aviation Inventory and Logistics	3
8	AMEV 4302	Aircraft Electrical Systems	3