

## Applied Bachelor in Aircraft Maintenance Engineering Curriculum (Aeromechanics)

<b>General Education</b>			<b>33</b>
Course Code	Course Title	CR	
MATH 1001	Pre-Calculus (Mod 1A)	3	
MATH 1011	Calculus I	3	
PHYS1015	Physics I for Aviation (Mod 2A)	3	
ENGL 1011	Academic English I	3	
ENGL 1012	Academic English II	3	
ENGL 2011	Public Speaking (Blended L.)	1	
ENGL 2012	Literature Review (Blended L.)	1	
ENGL 2013	Report Writing	1	
HUM1011	Islamic Culture	3	
ICT 1011	Introd. to Progr. & Probl. Solving	3	
HUM1012	Emirates Society & Culture	3	
HUM 3011	Creativity, Innovation and Entrepreneurship	3	
HUM1013	Arabic Communication Skills	3	
ENGL1001	English Skills EmSAT≥1300, IELTS ≥ 5.5)	0	
<b>Aircraft Maintenance Courses (CAT A)</b>			<b>47</b>
Course Code	Course Title	CR	
AMEM1201	Materials & Hardware (Mod 6A)	2	
AMEM1206	Mod 6A-OCT1	1	
AMEM1202	Maintenance Practices I (Mod 7A)	2	
AMEM1207	Mod 7A1-OCT2	1	
AMEM 1301	Human Factors (Mod 9A)	2	
AMEM2102	Basic Aerodynamics (8 A)	2	
AMEM2103	Maintenance Practices II (7 A)	2	
AMEM2202	Maintenance Practices III (7 A)	2	
AMEM2203	Maintenance Practices IV (7 A)	2	
AMEM2206	Mod7A3-OCT5	1	
AMEM2207	Mod7A4-OCT6	1	
AMEM2104	Aircraft Sys & Components I (11 A)	3	
AMEM2106	Mod 11- OCT3	1	
AMEM2204	Aircraft Sys. & Components II (11 A)	3	
AMEM2105	Gas Turbine Engines (15 A)	3	
AMEM2107	Mod 15-OCT4	1	
AMEM2205	Propellers (17 A)	2	
AMEM2090	OJT / Internship	6	
AMEV1201	Electrical Fundamentals (Mod 3A)	3	
AMEV 1301	Electronics (4 A)	3	
AMEV 2101	Basic Digital Techniques (Mod 5 A)	2	
AMEM 2201	Aviation Legislation (Mod 10 A)/ Aviation Legislation GCAA	2	

  

<b>GCAA/EASA (CAT B Conversion)</b>			<b>31</b>
Course Code	Course Title	CR	
Common Courses			
AMEM 3102	Adv. Materials & Hardware I 6 B1)	4	
AMEM 3101	Adv. Aerodynamics (8 B1)	3	
AMEM 3103	Adv. Maintenance Practices I (7 B1)	3	
AMEM 3202	Adv. Maintenance Practices II (7 B1)	3	
AMEV 3101	Electrical Engineering I (3B)	3	
AMEV 3102	Electrical Engineering I (3B) Lab.	1	
AMEV 3103	Digital Techniques I (5 B1)	3	
Concentration Courses			
AMEM3104	Adv. Aircraft Systems & Components I (11B1)	3	
AMEM3203	Adv. Aircraft Systems & Components II (11 B1)	3	
AMEM3204	Adv. Gas Turbine Engines (15 B1)	3	
AMEM3301	Adv. Propellers (17 B1)	2	
<b>Advanced Aircraft Maintenance Engineering Courses</b>			<b>27</b>
Course Code	Course Title	CR	
Common Courses			
AMEM 4101	Aircraft Maintenance Strategies	3	
AMEM 4103	Analysis of Aircraft value and Maintenance Costs	3	
AMEM 4104	Inspection Procedures	3	
AMEM 4901	Graduation Project I	3	
AMEM 4902	Graduation Project II	3	
Concentration Courses			
AMEM 4102	Aircraft Structural Analysis	3	
AMEM 4201	Aircraft Structural Repair	3	
AMEM 4202	Aircraft Accident Investigation and Prevention	3	
xxxxx	Elective	3	
<b>Total Credit Hours</b>		<b>138</b>	

## Applied Bachelor in Aircraft Maintenance Engineering (Avionics)

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Course Code	Course Title	CR	
MATH 1001	Pre-Calculus (Mod 1A)	3	
MATH 1011	Calculus I	3	
PHYS1015	Physics I for Aviation (Mod 2A)	3	
ENGL 1011	Academic English I	3	
ENGL 1012	Academic English II	3	
ENGL 2011	Public Speaking (Blended L.)	1	
ENGL 2012	Literature Review (Blended L.)	1	
ENGL 2013	Report Writing	1	
HUM1011	Islamic Culture	3	
ICT 1011	Introd. to Progr. & Probl. Solving	3	
HUM1012	Emirates Society & Culture	3	
HUM 3011	Creativity, Innovation and Entrepreneurship	3	
HUM1013	Arabic Communication Skills	3	
ENGL1001	English Skills EmSAT≥1300, IELTS ≥ 5.5)	0	
<b>Aircraft Maintenance Courses (CAT A)</b>			<b>47</b>
Course Code	Course Title	CR	
AMEM1201	Materials & Hardware (Mod 6A)	2	
AMEM1206	Mod 6A-OCT1	1	
AMEM1202	Maintenance Practices I (Mod 7A)	2	
AMEM1207	Mod 7A1-OCT2	1	
AMEM 1301	Human Factors (Mod 9A)	2	
AMEM2102	Basic Aerodynamics (8 A)	2	
AMEM2103	Maintenance Practices II (7 A)	2	
AMEM2202	Maintenance Practices III (7 A)	2	
AMEM2203	Maintenance Practices IV (7 A)	2	
AMEM2206	Mod7A3-OCT5	1	
AMEM2207	Mod7A4-OCT6	1	
AMEM2104	Aircraft Sys & Components I (11 A)	3	
AMEM2106	Mod 11- OCT3	1	
AMEM2204	Aircraft Sys. & Components II (11 A)	3	
AMEM2105	Gas Turbine Engines (15 A)	3	
AMEM2107	Mod 15-OCT4	1	
AMEM2205	Propellers (17 A)	2	
AMEM2090	OJT / Internship	6	
AMEV1201	Electrical Fundamentals (Mod 3A)	3	
AMEV 1301	Electronics (4 A)	3	
AMEV 2101	Basic Digital Techniques (Mod 5 A)	2	
AMEM 2201	Aviation Legislation (Mod 10 A)/ Aviation Legislation GCAA	2	

  

<b>GCAA/EASA (CAT B Conversion)</b>			<b>31</b>
Course Code	Course Title	CR	
Common Courses			
AMEM 3102	Adv. Materials & Hardware 6 B1)	4	
AMEM 3101	Adv. Aerodynamics (8 B1)	3	
AMEM 3103	Adv. Maintenance Practices I (7 B1)	3	
AMEM 3202	Adv. Maintenance Practices II (7 B1)	3	
AMEV 3101	Electrical Engineering I (3B)	3	
AMEV 3102	Electrical Engineering I (3B) Lab.	1	
AMEV 3103	Digital Techniques I (5 B1)	3	
Concentration Courses			
AMEV3202	Avionics Systems I (13 B2)	3	
AMEV3203	Props and FADEC (14 B2)	3	
AMEV3301	Avionics Systems II (13 B2)	3	
AMEV3201	Electronic Comm. Tech.	2	
Advanced Aircraft Maintenance Engineering Courses			<b>27</b>
Course Code	Course Title	CR	
Common Courses			
AMEM 4101	Aircraft Maintenance Strategies	3	
AMEM 4103	Analysis of Aircraft value and Maintenance Costs	3	
AMEM 4901	Graduation Project I	3	
AMEM 4902	Graduation Project II	3	
Concentration Courses			
AMEV 4102	Automatic Flight Control Systems Maintenance	3	
AMEV4201	Avionics and Instrumentation Systems Maintenance	3	
AMEV4202	Aircraft Communication and Navigation systems	3	
xxxxx	Elective I	3	
xxxxx	Elective II	3	
<b>Total Credit Hours</b>			<b>138</b>