



## SCHOOL OF AVIATION

### CURRICULUM MAP FOR BACHELOR OF SCIENCE IN AIRCRAFT MAINTENANCE TECHNOLOGY

- A - An ability to recognize, identify and apply technical concepts and terms, basic tools and equipment, airframe and powerplant systems and components in the aircraft maintenance field.
- B - An ability to demonstrate an in depth technical knowledge of flight and aircraft systems and operations
- C - An ability to identify, explain, assess and troubleshoot variety of airframe and powerplant systems and aircraft components
- D - An ability to communicate effectively in verbal and non-verbal communication.
- E - An ability to demonstrate and apply appropriate aviation technical applications, troubleshooting and critical thinking skills required in the industry while preparing for licensure exam at the Civil Aviation Authority of the Philippines (CAAP) with Aircraft Airframe and Powerplant (A&P) ratings.
- F - An understanding of all applicable NTC, CAAP, FAA, EASA and other relevant laws and regulations, aircraft service records, original equipment manufacturer's technical manual, Type certificate data sheet, service and repair manual and airworthiness directives.
- G - An ability to demonstrate knowledge and understanding of privileges, responsibilities and limitations to aircraft technician / mechanics certified to perform aviation maintenance and repair.
- H - A broad education necessary to understand the impact of aircraft maintenance-solution in a global and societal context.
- I - An ability to demonstrate appropriate skills, techniques and accepted practices necessary for aircraft maintenance and determination of airworthiness
- J - An understanding of aircraft mechanic's professionalism and ethical responsibilities in the airline and aviation industries demonstrating safe work habits and behavior reflecting concerns, care to others, equipment, aircraft and facilities.

#### LEGEND:

I – Introduced

E – A course that strengthens the outcome

D – A course demonstrating the outcome

Blank if no relation



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### PROGRAM OUTCOMES

COURSE TITLE		A	B	C	D	E	F	G	H	I	J
1 <sup>ST</sup> Year / 1 <sup>ST</sup> Semester											
AMT 1101	Theory of Flight	I							I		
AMT 1102	Aircraft Powerplant 1 - LEC	I	I	I		E	I			D	
AMT 1102L	Aircraft Powerplant 1 - LAB	I	E	D		D	D			D	
AMT 1103	A/C Materials, Construction & Repair 1 - LEC		I	I		E				D	
AMT 1103L	A/C Materials, Construction & Repair 1 - LAB		E	D		D				D	
AMT 1104	Aviation Safety						I	I		D	I
GEN 0134L	Engineering Drawing and Plans	I									



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**PROGRAM OUTCOMES**

<b>COURSE TITLE</b>		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>
<b>1<sup>ST</sup> Year / 2<sup>nd</sup> Semester</b>											
AMT 1207	Aircraft Assembly and Rigging LEC	I								I	
AMT 1207L	Aircraft Assembly and Rigging LAB	D								D	
AMT 1208	Aircraft Powerplant 2 LEC	I	I	I		E	I	I		D	
AMT 1208L	Aircraft Powerplant 2 LAB	I	E	D		D	D	D		D	
AMT 1209	Aircraft Propellers and Unducted fans LEC	I	I	I		E	I	I		D	
AMT 1209L	Aircraft Propellers and Unducted fans LAB	I	E	D		D	D	D		D	
AMT 1210	A/C Materials, Construction and Repair 2 LEC	I	I	I		E	I	I		D	
AMT 1210L	A/C Materials, Construction and Repair 2 LAB	I	E	D		D	D	D		D	
AMT 1211	Aircraft Weight and Balance LEC	I							I	D	I
AMT 1211L	Aircraft Weight and Balance LAB	I							D	D	D
AMT 1212L	Mechanical Drawing and Blueprint Reading	I							I		
AMT 1213	Applied Mathematics for Aviation	I							I		



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### PROGRAM OUTCOMES

COURSE TITLE 2 <sup>nd</sup> Year / 1 <sup>st</sup> Semester		A	B	C	D	E	F	G	H	I	J
AMT 2114	Aircraft Electric, Ignition and APU System LEC	I	I	I		E	I	I		D	
AMT 2114L	Aircraft Electric, Ignition and APU System LAB	I	E	D		D	D	D		D	
AMT 2115	Aircraft Instrument, Navigation and Communication Systems LEC	I	I	I	I	I	I	I		I	
AMT 2115L	Aircraft Instrument, Navigation and Communication Systems LAB	I	E	D	D	D	D	D		D	
AMT 2116	Aircraft Fuel and Fuel System LEC	I	I	I		I	I	I		I	
AMT 2116L	Aircraft Fuel and Fuel System LAB	I	E	D		D	D	D		D	
AMT 2117	Aircraft Lubricants and Lubricant System LEC	I	I	I		I	I	I		I	
AMT 2117L	Aircraft Lubricants and Lubricant System LAB	I	E	D		D	D	D		D	
AMT 2118	Aircraft Landing Gear, Hydraulics and Pneumatics, Position & Warning System LEC	I	I	I		I	I	I		I	
AMT 2118L	Aircraft Landing Gear, Hydraulics and Pneumatics, Position & Warning System LAB	I	E	D		D	D	D		D	
AMT 2119	Aircraft Cleaning and Corrosion Control LEC	I	I	I		I	I	I		I	
AMT 2119L	Aircraft Cleaning and Corrosion Control LAB	I	E	D		D	D	D		D	
AMT 2120	Differential Calculus	I							I		
FST 1001	Flight Simulator Training		I						I	D	



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### PROGRAM OUTCOMES

COURSE TITLE 2 <sup>nd</sup> Year / 2 <sup>nd</sup> Semester		A	B	C	D	E	F	G	H	I	J
AMT 2221	Airplane Ground Operation and Servicing LEC	I	I					I			
AMT 2221L	Airplane Ground Operation and Servicing LAB	D	D					D			
AMT 2222	Engine Systems LEC	I	I	I		I	I	I		I	
AMT 2222L	Engine Systems LAB	I	E	D		D	D	D		D	
AMT 2223	Cabin Atmosphere Control System LEC	I	I	I		I	I	I		I	
AMT 2223L	Cabin Atmosphere Control System LAB	I	E	D		D	D	D		D	
AMT 2224	Airframe Systems LEC	I	I	I		I	I	I		I	
AMT 2224L	Airframe Systems LAB	I	E	D		D	D	D		D	
AMT 2225	Airframe and Powerplant Maintenance and Inspection LEC	I	I	I		I	I	I		I	I
AMT 2225L	Airframe and Powerplant Maintenance and Inspection LAB	I	E	D		D	D	D		D	D
AMT 2226	Maintenance Publications, Forms and Records	I							I		
AMT 2227	Air Laws and Civil Air Regulations CAR 001	I					I				I
AMT 2228	Integral Calculus	I							I		
AMT 2229L	On-the-Job Training	I				I	I				D
FST 1002	Flight Simulator Training		I						I	D	



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PROGRAM OUTCOMES											
COURSE TITLE 3 <sup>rd</sup> Year / 1 <sup>st</sup> Semester		A	B	C	D	E	F	G	H	I	J
AMT 3128	Maintenance Planning and Control										D
AMT 3129	Maintenance Organization and Management										D
AMT 3130	College Physics 1 LEC										
AMT 3130L	College Physics 1 LAB										
FST 1003	Flight Simulator Training									D	

PROGRAM OUTCOMES											
COURSE TITLE 3 <sup>rd</sup> Year / 2 <sup>nd</sup> Semester		A	B	C	D	E	F	G	H	I	J
AMT 3231	Fundamentals of Aerodynamics										
AMT 3232	Thermodynamics										
AMT 3233	Statics of Rigid Bodies										
AMT 3234	College Physics 2 LEC										
AMT 3234L	College Physics 2 LAB										
FST 1004	Flight Simulator Training									D	



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PROGRAM OUTCOMES											
COURSE TITLE		A	B	C	D	E	F	G	H	I	J
4 <sup>th</sup> Year / 1 <sup>st</sup> Semester											
AMT 4135	Subsonic of Aerodynamics	I	I								
AMT 4136	Aircraft Mechanical Processes LEC	I	I	I							
AMT 4136L	Aircraft Mechanical Processes LAB	I	E	D							
AMT 4137	Aircraft Propulsion System	I	I	I		D					
AMT 4138	Dynamics of Rigid Bodies	I	I								
AMT 4139	Mechanical of Deformable Bodies	I	I								
FST 1005	Flight Simulator Training		I						I	D	



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<b>PROGRAM OUTCOMES</b>											
<b>COURSE TITLE</b>		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>
<b>4<sup>th</sup> Year / 2<sup>nd</sup> Semester</b>											
AMT 4240	Supersonic Aerodynamics	I	I								
AMT 4241	Aircraft Structures 2	I	I	I		D	D	D			
AMT 4242	Aircraft Accident Investigation	I					I			D	
AMT 4243	AMT Seminar and Field Trip					I				I	
RT 1000	Run Up and Taxi Operation		I						I	D	

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