



SCHOOL OF AVIATION

CURRICULUM MAP FOR BACHELOR OF SCIENCE IN AVIATION ELECTRONICS TECHNOLOGY

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| A | - | An ability to recognize, identify and apply technical concepts and terms, basic tools and equipment, electrical theory and system operations in avionics field. |
| B | - | An ability to use test equipment to evaluate system performance, determine and isolate faults and perform repairs on electrical systems with emphasis on communication, navigation and flight management system. |
| C | - | An ability to perform basic wiring and termination common to avionics |
| 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 Aviation Maintenance Specialist rating. |
| F | - | An understanding of all applicable NTC, CAAP, FAA and other relevant laws and regulations, aircraft service records, original equipment manufacturer's technical manual, schematics, diagram and directives. |
| G | - | An ability to demonstrate knowledge and understanding of privileges, responsibilities and limitations to avionics technician / specialist certified to perform aviation electronics maintenance. |
| H | - | A broad education necessary to understand the impact of avionics-solution in a global and societal context. |
| I | - | An ability to use the appropriate technical skills and modern engineering tools necessary for avionics professionals |
| J | - | An understanding of avionics 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 1 ST Year / 1 ST Semester		A	B	C	D	E	F	H	I	J
AVT 1101	Theory of Flight (Fixed and Rotary Wings)	I								
AVT 1102	Avionics Hand Tools and Equipment-LEC	I								
AVT 1102L	Avionics Hand Tools and Equipment-LAB	E	D							
AVT 1103	Aircraft Electricity (AC/DC)-LEC	I		I						
AVT 1103L	Aircraft Electricity (AC/DC)-LAB	E		D						
AVT 1104	Fundamental Wiring Techniques(Connectors, Crimping& Soldering)-LEC	I		I						
AVT 1104L	Fundamental Wiring Techniques(Connectors, Crimping& Soldering)-LAB	E		D						
AVT 1105	Radio Laws and Regulations						I			
GEN 0134L	Engineering Drawing and Plans	I								



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PROGRAM OUTCOMES

COURSE TITLE 1 ST Year / 2 nd Semester		A	B	C	D	E	F	G	H	I	J
AVT 1207	Aircraft Navigation System Avoidance System-LEC	I	I						I		
AVT 1207L	Aircraft Navigation System Avoidance System-LAB	E	D						D		
AVT 1208	Analog/Digital Devices & Circuits-LEC	I	I								
AVT 1208L	Analog/Digital Devices & Circuits-LAB	E	D								
AVT 1209	Aircraft Communications/ SATCOM	I			I				D		
AVT 1210	Electronic 1 (Fundamentals of Solid State Devices)-LEC	I	I								
AVT 1210L	Electronic 1 (Fundamentals of Solid State Devices)-LAB	E	D								
AVT 1211	Aircraft Instruments System-LEC	I	I			D	E				
AVT 1211L	Aircraft Instruments System-LAB		D			D	E			D	
AVT 1212L	Microprocessors-LAB					I	E		D		
AVT 1213	Aircraft Cleaning and Corrosion Control-LEC					I					
AVT 1213L	Aircraft Cleaning and Corrosion Control-LAB					D					
AVT 1214L	Mechanical Drawing & Blue Print Reading									I	
AVT 1215	Applied Mathematics for Aviation								E		



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PROGRAM OUTCOMES											
COURSE TITLE 2 nd Year / 1 st Semester		A	B	C	D	E	F	G	H	I	J
AVT 2116	Auto Flight System (Electronic Flight Instrument System)						I		E	D	
AVT 2117	Auxiliary System	I				D					
AVT 2118	Electronics 2 - Planning the Installation-LEC	I		D		D					
AVT 2118L	Electronics 2 - Planning the Installation-LAB	I		D		D					
AVT 2119	Radio Antenna System-Aviation Bands & Frequencies-LEC				I	I	I				
AVT 2119L	Radio & Antenna System-Aviation Bands & Frequencies-LAB				D	D	E				
AVT 2120	Avionics Line Maintenance Safety-LEC					D		I	I	I	I
AVT 2120L	Avionics Line Maintenance Safety-LAB					D		E	E	E	D
AVT 2121	Flight Management System		I			D		E	I	I	D
AVT 2122	Differential Calculus								I		



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COURSE TITLE 2 nd Year / 2 nd Semester		A	B	C	D	E	F	G	H	I	J
AVT 2223	Avionics Trouble Shooting-LEC					I	I				
AVT 2223L	Avionics Trouble Shooting-LAB					D	D				
AVT 2224	Weather Avoidance & Terrain Awareness Systems								I	I	
AVT 2225	Powerplant Monitoring System					I	I		I		I
AVT 2226	Aircraft System Integration	I				D					
AVT 2227	Air Laws and Civil Regulation CAR-001						I	I			I
AVT 2228	Integral Calculus								I		
AVT 2229L	On-the-Job Training (250 Hours)					D		D		D	D



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PROGRAM OUTCOMES

COURSE TITLE 3 rd Year / 1 st Semester		A	B	C	D	E	F	G	H	I	J
AVT 3130	Principle of Communications				I						
AVT 3131	Radar Principles & Technology					D				D	
AVT 3132	Aviation Physics 1-LEC								I		
AVT 3132L	Aviation Physics 1-LAB								D		
AVT 3133	Logic Circuit & Servo Switching-LEC	I	I			I					
AVT 3133L	Logic Circuit & Servo Switching-LAB	D	D			D					

PROGRAM OUTCOMES

COURSE TITLE 3 rd Year / 2 nd Semester		A	B	C	D	E	F	G	H	I	J
AVT 3234	Avionics Maintenance					D	E	D			
AVT 3235	Statics of Rigid Bodies								I		
AVT 3236	Aviation Physics 2-LEC								I		
AVT 3236L	Aviation Physics 2-LAB								D		



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PROGRAM OUTCOMES											
COURSE TITLE 4 th Year / 1 st Semester		A	B	C	D	E	F	G	H	I	J
AVT 4137	Communication System Analysis	I			D	D	E				
AVT 4138	Dynamics of Rigid Bodies								I		
AVT 4139	Mechanics of Deform Bodies								I		
AVT 4140L	Rigging Shop								D		

PROGRAM OUTCOMES											
COURSE TITLE 4 th Year / 2 nd Semester		A	B	C	D	E	F	G	H	I	J
AVT 4241	Wireless and Wired Communication				D						
AVT 4242	Data Communication				D						
AVT 4243	Elements of Microwave								I		
AVT 4244L	AVT Seminar & Field Trip							D			D
RT 1000	Run-up and Taxi					D			D	D	

Prepared by:
MS. JOY V. LOZANO, MEAM
Asst. Quality Manager
OIC-SOA

Approved by:
DR. ALFONSO H. LORETO
School Director