



# INDIANA AEROSPACE UNIVERSITY

IAU Town Center Basak, Kagudoy Rd., Lapu-Lapu City

## BACHELOR OF SCIENCE IN AVIONICS TECHNOLOGY

Revised Curriculum per CHED Memo Order No.93, S.2017  
Effective Academic Year 2024 - 2025

### FIRST YEAR

FIRST SEMESTER						SECOND SEMESTER					
Subcodes	Descriptive Titles	Lec	Lab	Units	Pre Req	Subcodes	Descriptive Titles	Lec	Lab	Units	Pre Req
Gen Ed 1	Contemporary World	3	0	3		Gen Ed 4	Purposive Communication				
Gen Ed 2	Understanding the Self	3	0	3		Gen Ed 5	Mathematics in the Modern World	3	0	3	
Gen Ed 3	Readings in Phil, History with Integration of Indigenous People Studies	3	0	3		Gen Ed 6	Science & Technology & Society with Integration in Disaster Risk Reduction and Management	3	0	3	
Draw 100	Engineering Drawing 1	3	0	3		Draw 120	Engineering Drawing 2	3	0	3	Draw 100
AVT 111	Aviation Orientation	2	0	2		AVT 121	Fundamentals of AC-DC	2	3	3	
AVT 112	Aviation Safety	2	0	2		AVT 122	Workshop 1 - Hand Tools and Electrical Test Equipment	2	6	3	
AVT 113	Theory of Flight	3	0	3		AVT 123	Essentials of Communication	3	0	3	
Theology 1	The Commandments and Morals	1	0	1		AVT 124	A/C Materials Construction & Repairs 1 (Non-Metals)	2	6	4	
PATHFit1	Movement Competency Training	2	0	2		Theology 2	The Creed	1	0	1	
NSTP 1	National Service Training Program 1	3	0	3		PATHFit2	Exercise-based Fitness Activities	2	0	2	PATHFit1
<b>Total</b>		<b>25</b>	<b>0</b>	<b>25</b>		NSTP 2	National Service Training Program 2	3	0	3	NSTP 1
								<b>27</b>	<b>15</b>	<b>30</b>	

### SECOND YEAR

FIRST SEMESTER						SECOND SEMESTER					
Subcodes	Descriptive Titles	Lec	Lab	Units	Pre Req	Subcodes	Descriptive Titles	Lec	Lab	Units	Pre Req
Gen Ed 7	Ethics with Integration on Peace Education Studies	3	0	3		Gen Ed 10	Great Books ELEC	3	0	3	
Gen Ed 8	Art Appreciation	3	0	3		Gen Ed 11	Entrepreneurial Min ELEC	3	0	3	
Gen Ed 9	Life and Works of Rizal	3	0	3		Gen Ed 12	Gender & Society ELEC	3	0	3	
AVT 211	Electronic 1 - Semi Conductors	3	1	3	AVT 121	AVT 221	Digital Techniques Components & Circuitry	2	3	3	AVT 211
AVT 212	Antenna System	3	0	3		AVT 222	Airborne Communication Elect.	3	0	3	
AVT 213	Basic A/C Flight Control & Nav Instruments	2	3	3	AVT 113	AVT 223	Airports, Airways & ATC Systems	3	1	4	
AVT 214	Basic A/C Airframe & Electrical Distribution System	2	3	3	AVT 121	AVT 224	A/C Powerplant 1 (Rec. Engines)	3	3	4	
AVT 215	Aviation Radio-Communication	2	3	3	AVT 123	AVT 225	Weather Protection & Corrosion Prevention	3	0	3	
Theology 3	The Sacraments	1	0	1		AVT 226	Electronics 2 - Solid State Devices	3	1	4	AVT 211
PATHFit3	Group Exercise	2	0	2	PATHFit2	Theology 4	Bible Study	1	0	1	
<b>Total</b>		<b>18</b>	<b>10</b>	<b>27</b>		PATHFit 4	Outdoor and Adventure Activities	2	0	2	PATHFit3
						<b>Total</b>		<b>29</b>	<b>8</b>	<b>33</b>	

Upon completion of the first two years of the course, the student will be conferred the certificate of Associate in Avionics Technology provided he/she has undergone the 2,400 hours ON-THE JOB Training (Requirements for Graduation in Associate in AVT).

### THIRD YEAR

FIRST SEMESTER						SECOND SEMESTER					
Subcodes	Descriptive Titles	Lec	Lab	Units	Pre Req	Subcodes	Descriptive Titles	Lec	Lab	Units	Pre Req
Mech 310	Engineering Mechanic	5	0	5		Mech 320	Strength of Materials	3	0	3	Mech 310
Research	Thesis Writing 1	3	0	3		AVT 320	Fundamentals of Aerodynamics	3	0	3	
AVT 310	Thermodynamics	3	0	3		AVT 321	Modern and Latest Developments	3	0	3	AVT 311
AVT 311	Navigational Aids	3	0	3	AVT 222	AVT 322	Elements of Microwave	3	0	3	AVT 212
AVT 312	Radar	3	0	3		AVT 323	Wired & Wireless Communication	3	1	3	
AVT 313	Data Communication	3	0	3	AVT 221 AVT 226	AVT 324	Auto Pilot	3	0	3	AVT 311 AVT 312
AVT 314	Microprocessor	3	0	3		AVT 325	Air Laws & Civil Air Regulations (AMO)	2	0	2	
AVT 315	Powerplant 2 (Turbine Engines)	3	3	4	AVT 224	AVT 326	Introduction to Simulator Systems	3	3	3	AVT 221 AVT 226
<b>Total</b>		<b>26</b>	<b>3</b>	<b>27</b>				<b>23</b>	<b>4</b>	<b>23</b>	

### FOURTH YEAR

FIRST SEMESTER						SECOND SEMESTER					
Subcodes	Descriptive Titles	Lec	Lab	Units	Pre Req	Subcodes	Descriptive Titles	Lec	Lab	Units	Pre Req
AVT 410	Hydraulics, Pneumatics & Servo Mechanic	3	3	4		AVT 45	OJT/Practicum (1,200 Hours)	0	0	6	
AVT 411	Advanced Avionics (Fire Protection Systems)	3	0	3	AVT 321 AVT 311			<b>0</b>	<b>0</b>	<b>6</b>	
<b>Total</b>		<b>6</b>	<b>3</b>	<b>7</b>							

FIRST YEAR	25 + 30 = 55 UNITS		
SECOND YEAR	27 + 33= 60 Units	MANDATED	17 Units
THIRD YEAR	27 + 23= 50 Units	GENERAL EDUCATION	36 Units
FOURTH YEAR	7 + 6 = 13 Units	PROF ED	55 Units
TOTAL	178 Units	MAJOR	63 Units
		MINSTITUTIONAL	4 Units
		TOTAL	178 Units

Upon the completion of the four-year course, the student is conferred with the degree in Bachelor of Science in Avionics Technology (BSAVT) provided that he/she has undergone 1,200 hours On-the-Job- Training.