



# HINDUSTAN AEROSPACE & ENGINEERING – PUNE

(A unit of Kohinoor Educational Services Pvt. Ltd.)

Approved by DGCA (Govt. of India) for AME Course under CAR-147 (Basic)

## THEORY SYLLABUS – B2 (AVIONICS)

### FIRST SEMESTER

MODULE	NOMENCLATURE	HOURS
Module – 7A	Maintenance Practices - I	85
Module – 08	Basic Aerodynamics	60
Module – 10	Aviation Legislation - I	100
	<b>Duration</b>	<b>245</b>

### SECOND SEMESTER

MODULE	NOMENCLATURE	HOURS
Module – 03	Electrical Fundamentals - I	60
Module – 7A	Maintenance Practices - II	85
Module – 9A	Human Factors	60
Module – 10	Aviation Legislation - II	100
	<b>Duration</b>	<b>305</b>

### THIRD SEMESTER

MODULE	NOMENCLATURE	HOURS
Module – 03	Electrical Fundamentals - II	60
Module – 04	Electronics Fundamentals	80
Module – 5	Digital Techniques/Electronics Instruments System -I	60
	<b>Duration</b>	<b>200</b>



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### FOURTH SEMESTER

MODULE	NOMENCLATURE	HOURS
Module – 5	Digital Techniques/Electronics Instruments System - II	60
Module – 06	Materials & Hardware - I	60
Module – 13	Aircraft Aerodynamics, Structure & System – I (Electrical Power)	60
<b>Duration</b>		<b>180</b>

### FIFTH SEMESTER

MODULE	NOMENCLATURE	HOURS
Module – 06	Materials & Hardware - II	60
Module – 13	Aircraft Aerodynamics, Structure & System – II (Instrument, Autopilot, Compass)	160
Module – 13	Aircraft Aerodynamics, Structure & System – III (Airframe, Structure)	50
<b>Duration</b>		<b>270</b>

### SIXTH SEMESTER

MODULE	NOMENCLATURE	HOURS
Module – 13	Aircraft Aerodynamics, Structure & System – IV (Radio)	80
Module – 13	Aircraft Aerodynamics, Structure & System – V ( Info., Cabin Sys, Integrated Modular Avionics)	50
Module – 13	Aircraft Aerodynamics, Structure & System – VI ( Airframe Structure)	60
Module – 14	Propulsion	50
<b>Duration</b>		<b>240</b>



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## PRACTICAL SYLLABUS – B2 (AVIONICS)

### FIRST SEMESTER

MODULE	NOMENCLATURE	Practical (In-house)	Practical (out -source)
Module – 7A	Maintenance Practices - I	81	--
Module – 08	Basic Aerodynamics	40	--
	<b>Duration</b>	<b>121</b>	<b>--</b>

### SECOND SEMESTER

MODULE	NOMENCLATURE	Practical (In-house)	Practical (out -source)
Module – 03	Electrical Fundamentals - I	54	--
Module – 7A	Maintenance Practices - II	46	--
	<b>Duration</b>	<b>100</b>	<b>--</b>

### THIRD SEMESTER

MODULE	NOMENCLATURE	Practical (In-house)	Practical (out -source)
Module – 03	Electrical Fundamentals - II	54	--
Module – 04	Electronics Fundamentals - I	80	--
Module – 05	Digital Techniques/Electronics Instruments Systems - I	45	--
	<b>Duration</b>	<b>179</b>	<b>--</b>



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## PRACTICAL SYLLABUS – B2 (AVIONICS)

### FOURTH SEMESTER

MODULE	NOMENCLATURE	Practical (In-house)	Practical (out -source)
Module – 05	Digital Techniques/Electronics Instruments Systems - II	35	--
Module – 06	Materials & Hardware - I	20	--
Module – 13	Aircraft Aerodynamics, Structure & System – I (Electrical Power)	23	52
	<b>Duration</b>	<b>78</b>	<b>52</b>

### FIFTH SEMESTER

MODULE	NOMENCLATURE	Practical (In-house)	Practical (out -source)
Module – 06	Materials & Hardware - II	61	--
Module – 13	Aircraft Aerodynamics, Structure & System – II (Instrument, Autopilot, Compass)	48	48
Module – 13	Aircraft Aerodynamics, Structure & System – III (Airframe & Structure)	11	64
	<b>Duration</b>	<b>120</b>	<b>112</b>

### SIXTH SEMESTER

MODULE	NOMENCLATURE	Practical (In-house)	Practical (out -source)
Module – 13	Aircraft Aerodynamics, Structure & System – IV (Radio)	7	79
Module – 13	Aircraft Aerodynamics, Structure & System – V (Info., Cabin Sys, Integrated Modular Avionics)	--	28
Module – 13	Aircraft Aerodynamics, Structure & System – VI (Airframe & Structure)	5	39
Module - 14	Propulsion	--	40
	<b>Duration</b>	<b>12</b>	<b>186</b>