

**BREAKDOWN OF DURATION OF CAR 66 BASIC KNOWLEDGE TRAINING  
(DIVIDED IN 3 YEARS/ 6 SEMESTERS)**

Basic Course Category	Total Hours	Breakdown of Course Duration (in Hours)		
		Within a CAR 147(B) Organization		Within a CAR 145 AMO
		Theory (60% of Total Hours)	Practical (70% of Total Practical Hours)	Practical (30% of Total Practical Hours in Actual Maintenance Working Environment)
Aeroplane Turbine (B1.1)	2400	1440	672	288
Avionics (B2)	2400	1440	672	288

**SEMESTERWISE COURSE STRUCTURE – AEROPLANE TURBINE (B1.1) CATEGORY**

**Note: -**

1. Practical Training at CAR 145 means Practical Training in Actual Maintenance Working Environment at DGCA Approved CAR 145 AMO.
2. Symbol “X” indicates Practical Training (Structured Practical Training at CAR 147 BMTO or Actual Maintenance Working Environment Training at CAR 145 AMO) not applicable for the particular Module/Semester.

**FIRST SEMESTER – AEROPLANE TURBINE (B1.1) CATEGORY**

Sr. No.	Subject Name	Module Covered	Hours Allotted		
			Theory	Practical	
				CAR 147	CAR 145
01.	Electrical Fundamentals	3	100	70	X
02.	Basic Aerodynamics	8	60	32	
03.	Aviation Legislation – 1	10	140	X	
<b>TOTAL HOURS ALLOTTED – THEORY AND PRACTICAL</b>			<b>300</b>	<b>102</b>	
			<b>402</b>		

**SECOND SEMESTER – AEROPLANE TURBINE (B1.1) CATEGORY**

Sr. No.	Subject Name	Module Covered	Hours Allotted		
			Theory	Practical	
				CAR 147	CAR 145
01.	Electronics Fundamentals	4	70	40	X
02.	Materials and Hardware – 1	6	60	30	
03.	Human Factor	9A	70	X	
04.	Aviation Legislation – 2	10	120	X	
<b>TOTAL HOURS ALLOTTED – THEORY AND PRACTICAL</b>			<b>320</b>	<b>70</b>	
			<b>390</b>		

### THIRD SEMESTER – AEROPLANE TURBINE (B1.1) CATEGORY

Sr. No.	Subject Name	Module Covered	Hours Allotted		
			Theory	Practical	
				CAR 147	CAR 145
01.	Digital Techniques Electronic Instrument Systems	5	100	50	X
02.	Materials and Hardware – 2	6	60	40	
03.	Maintenance Practices	7A	120	80	
<b>TOTAL HOURS ALLOTTED – THEORY AND PRACTICAL</b>			<b>280</b>	<b>170</b>	
<b>450</b>					

### FOURTH SEMESTER – AEROPLANE TURBINE (B1.1) CATEGORY

Sr. No.	Subject Name	Module Covered	Hours Allotted		
			Theory	Practical	
				CAR 147	CAR 145
01.	Turbine Aeroplane Aerodynamics, Structures & Systems – 1	11A	120	100	X
02.	Gas Turbine Engine – 1	15	60	50	
03.	Propeller	17A	40	30	
<b>TOTAL HOURS ALLOTTED – THEORY AND PRACTICAL</b>			<b>220</b>	<b>180</b>	
<b>400</b>					

### FIFTH SEMESTER – AEROPLANE TURBINE (B1.1) CATEGORY

Sr. No.	Subject Name	Module Covered	Hours Allotted		
			Theory	Practical	
				CAR 147	CAR 145
01.	Turbine Aeroplane Aerodynamics, Structures & Systems – 2	11A	100	50	145
02.	Gas Turbine Engine – 2	15	60	25	
<b>TOTAL HOURS ALLOTTED – THEORY AND PRACTICAL</b>			<b>160</b>	<b>220</b>	
<b>380</b>					

### SIXTH SEMESTER – AEROPLANE TURBINE (B1.1) CATEGORY

Sr. No.	Subject Name	Module Covered	Hours Allotted		
			Theory	Practical	
				CAR 147	CAR 145
01.	Turbine Aeroplane Aerodynamics, Structures & Systems – 3	11A	80	50	143
02.	Gas Turbine Engine – 3	15	80	25	
<b>TOTAL HOURS ALLOTTED – THEORY AND PRACTICAL</b>			<b>160</b>	<b>218</b>	
<b>378</b>					

## SEMESTERWISE COURSE STRUCTURE – AVIONICS (B2) CATEGORY

**Note: -**

1. Practical Training at CAR 145 means Practical Training in Actual Maintenance Working Environment at DGCA Approved CAR 145 AMO.
2. Symbol “X” indicates Practical Training (Structured Practical Training at CAR 147 BMTO or Actual Maintenance Working Environment Training at CAR 145 AMO) not applicable for the particular Module/Semester.

FIRST SEMESTER – AVIONICS (B2) CATEGORY					
Sr. No.	Subject Name	Module Covered	Hours Allotted		
			Theory	Practical	
				CAR 147	CAR 145
01.	Electrical Fundamentals	3	100	70	X
02.	Basic Aerodynamics	8	60	32	
03.	Aviation Legislation – 1	10	140	X	
<b>TOTAL HOURS ALLOTTED – THEORY AND PRACTICAL</b>			<b>300</b>	<b>102</b>	
<b>402</b>					

SECOND SEMESTER – AVIONICS (B2) CATEGORY					
Sr. No.	Subject Name	Module Covered	Hours Allotted		
			Theory	Practical	
				CAR 147	CAR 145
01.	Materials and Hardware	6	100	60	X
02.	Human Factor	9A	70	X	
03.	Aviation Legislation – 2	10	120	X	
<b>TOTAL HOURS ALLOTTED – THEORY AND PRACTICAL</b>			<b>290</b>	<b>60</b>	
<b>350</b>					

THIRD SEMESTER – AVIONICS (B2) CATEGORY					
Sr. No.	Subject Name	Module Covered	Hours Allotted		
			Theory	Practical	
				CAR 147	CAR 145
01.	Electronics Fundamentals	4	120	100	X
02.	Digital Techniques Electronic Instrument Systems – 1	5	110	40	
03.	Maintenance Practices	7A	100	60	
<b>TOTAL HOURS ALLOTTED – THEORY AND PRACTICAL</b>			<b>330</b>	<b>200</b>	
<b>530</b>					

#### FOURTH SEMESTER – AVIONICS (B2) CATEGORY

Sr. No.	Subject Name	Module Covered	Hours Allotted		
			Theory	Practical	
				CAR 147	CAR 145
01.	Digital Techniques Electronic Instrument Systems – 2	5	110	40	X
02.	Aircraft Aerodynamics, Structures & Systems – 1	13	130	90	
03.	Propulsion	14	50	40	
<b>TOTAL HOURS ALLOTTED – THEORY AND PRACTICAL</b>			<b>290</b>	<b>170</b>	
<b>460</b>					

#### FIFTH SEMESTER – AVIONICS (B2) CATEGORY

Sr. No.	Subject Name	Module Covered	Hours Allotted		
			Theory	Practical	
				CAR 147	CAR 145
01.	Aircraft Aerodynamics, Structures & Systems – 2	13	110	70	145
<b>TOTAL HOURS ALLOTTED – THEORY AND PRACTICAL</b>			<b>110</b>	<b>215</b>	
<b>325</b>					

#### SIXTH SEMESTER – AVIONICS (B2) CATEGORY

Sr. No.	Subject Name	Module Covered	Hours Allotted		
			Theory	Practical	
				CAR 147	CAR 145
01.	Aircraft Aerodynamics, Structures & Systems – 3	13	120	70	143
<b>TOTAL HOURS ALLOTTED – THEORY AND PRACTICAL</b>			<b>120</b>	<b>213</b>	
<b>333</b>					