

ALPINE INSTITUTE OF AERONAUTICS, DEHRADUN

COURSE B1.1

- Total Hours Allotted: 2400
- Theory Hours: (50 to 60%) = 1440 (60%)
- Practical Hours: (40%) = 960 (Should not be less than 960
Practical Hours in AMO: (30%) = 288 (Should not be less than 288) } in total 960
Practical Hours in house: 672
Course Duration : 02 Years

SEM	SUBJECT/MODULES	THEORY	PRACTICAL	
			IN HOUSE	AMO
JULY TO DEC (First Sem)	Aviation Legislation – I (Module - 10)	100	05	10
	Basic Aerodynamics (Module - 08)	60	20	20
	Electrical Fundamentals (Module - 03)	80	50	20
	Maintenance Practices (Module - 07A)	140	85	30
	Total Hours	380 hrs	160 hrs	80 hrs
JAN – JUN (second Sem)	Aviation Legislation - II (Module - 10)	100	10	10
	Material & Hardware (Module – 06)	100	80	30
	Electronic Fundamentals (Module – 04)	60	30	30
	Digital Technique Electronic Instrument System (Module – 05)	50	40	10
	Human Factors (Module 09)	70	00	00
	Total Hours	380 hrs	160 hrs	80 hrs
	Gas turbine Engine – I (Module – 15)	100	40	20
JULY TO DEC (Third Sem)	Gas turbine Engine – II (Module – 15)	100	40	20
	Turbine Aeroplane Aerodynamics, Structure & Systems (Module – 11A)	100	50	20
	Propellers Module – 17A	80	30	20
	Total Hours	380 hrs	160 hrs	80 hrs
JAN – JUN (Fourth Sem)	Digital Technique Electronic Instrument System Module – 05	40	20	05
	Maintenance Practices (Module - 07A)	80	30	10
	Turbine Aeroplane Aerodynamics, Structure & Systems (Module – 11A)	100	40	20
	Gas turbine Engine (Module – 15)	80	40	30
	Propellers Module – 17A	80	30	15
	Total Hours	380	160	80 hrs

COURSE B1.2

- **Total Hours Allotted: 2000**
- **Theory Hours: (50 to 60%) = 1200 (60%)**
- **Practical Hours: (40%) = 800 (Should not be less than 800)**
Practical Hours in AMO: (30%) = 240 (Should not be less than 240)
Practical Hours in house: 560
Course Duration – 2 years

SEM	SUBJECT/MODULES	THEORY	PRACTICAL	
			IN HOUSE	AMO
JULY TO DEC (First Sem)	Aviation Legislation – I (Module - 10)	100	10	10
	Basic Aerodynamics (Module - 08)	60	20	10
	Electrical Fundamentals (Module - 03)	60	20	10
	Maintenance Practices (Module - 07A)	100	75	45
	Total Hours	320 hrs	125 hrs	75 hrs
JAN – JUN (second Sem)	Aviation Legislation - II (Module - 10)	100	10	10
	Material & Hardware (Module – 06)	50	50	45
	Electronic Fundamentals (Module – 04)	50	35	10
	Digital Technique Electronic Instrument System (Module – 05)	50	30	10
	Human Factors (Module 09A)	70	00	00
	Total Hours	320 hrs	125 hrs	75 hrs
JULY TO DEC (Third Sem)	Piston Engine – I (Module – 16)	80	40	20
	Piston Engine – II (Module – 16)	80	40	20
	Piston Aeroplane Aerodynamics, Structure & Systems (Module – 11B)	100	35	20
	Propellers Module – 17A	60	10	15
	Total Hours	320 hrs	125 hrs	75 hrs
JAN – JUN (Fourth Sem)	Digital Technique Electronic Instrument System Module – 05	40	10	05
	Maintenance Practices (Module - 07A)	60	30	10
	Piston Aeroplane Aerodynamics, Structure & Systems (Module – 11B)	80	30	25
	Piston Engine (Module – 16)	70	30	25
	Propellers Module – 17A	70	25	10
	Total Hours	320 hrs	125 hrs	75 hrs

COURSE B1.3

- **Total Hours Allotted: 2400**
- **Theory Hours: (50 to 60%) = 1440 (60%)**
- **Practical Hours: (40%) = 960 (Should not be less than 960**
Practical Hours in AMO: (30%) = 288 (Should not be less than 288) } in total 960
Practical Hours in house: 672
Course Duration: 02 Years

SEM	SUBJECT/MODULES	THEORY	PRACTICAL	
			IN HOUSE	AMO
JULY TO DEC (First Sem)	Aviation Legislation – I (Module - 10)	100	05	10
	Basic Aerodynamics (Module - 08)	60	20	20
	Electrical Fundamentals (Module - 03)	80	50	20
	Maintenance Practices (Module - 07A)	140	85	30
	Total Hours	380 hrs	160 hrs	80 hrs
JAN – JUN (second Sem)	Aviation Legislation - II (Module - 10)	100	10	10
	Material & Hardware (Module – 06)	100	80	30
	Electronic Fundamentals (Module – 04)	60	30	30
	Digital Technique Electronic Instrument System (Module – 05)	50	40	10
	Human Factors (Module 09A)	70	00	00
	Total Hours	380 hrs	160 hrs	80 hrs
JULY TO DEC (Third Sem)	Gas turbine Engine – I (Module – 15)	130	40	30
	Gas turbine Engine – II (Module – 15)	130	40	30
	Helicopter Aerodynamics, Structure & Systems (Module – 12)	120	80	20
	Total Hours	380 hrs	160 hrs	80 hrs
JAN – JUN (Fourth Sem)	Digital Technique Electronic Instrument System Module – 05	40	30	10
	Maintenance Practices (Module - 07A)	80	30	15
	Helicopter Aerodynamics, Structure & Systems (Module – 12)	130	50	25
	Gas turbine Engine (Module – 15)	130	50	30
	Total Hours	380 hrs	160 hrs	80 hrs

COURSE B2

- **Total Hours Allotted: 2400**
- **Theory Hours: (50 to 60%) = 1440 (60%)**
- **Practical Hours: (40%) = 960 (Should not be less than 960)**
Practical Hours in AMO: (30%) = 288 (Should not be less than 288) } in total 960
Practical Hours in house: 672
Course Duration – 02 Years

SEM	SUBJECT/MODULES	THEORY	PRACTICAL	
			IN HOUSE	AMO
JULY TO DEC (First Sem)	Aviation Legislation – I (Module - 10)	100	05	10
	Basic Aerodynamics (Module - 08)	60	20	20
	Electrical Fundamentals (Module - 03)	80	50	20
	Maintenance Practices (Module - 07A)	140	85	30
	Total Hours	380 hrs	160 hrs	80 hrs
JAN – JUN (second Sem)	Aviation Legislation - II (Module - 10)	100	10	10
	Material & Hardware (Module – 06)	100	80	30
	Electronic Fundamentals (Module – 04)	60	30	30
	Digital Technique Electronic Instrument System (Module – 05)	50	40	10
	Human Factors (Module 09)	70	00	00
	Total Hours	380 hrs	160 hrs	80 hrs
JULY TO DEC (Third Sem)	Propulsion (Module – 14)	160	40	20
	Aircraft Structure & Systems (Module – 13)	110	90	30
	Digital Technique Electronic Instrument System (Module – 05)	90	30	30
	Total Hours	360hrs	160 hrs	80 hrs
JAN – JUN (Fourth Sem)	Maintenance Practices (Module - 07A)	100	50	25
	Aircraft Structure & Systems (Module – 13)	100	80	40
	Propulsion (Module – 14)	180	30	15
	Total Hours	380 hrs	160 hrs	80 hrs