



AVIA
L I T E W I N G S
FLY. FULFIL. FROLIC

Transforming the Aerospace Market

**“No real change in history has
ever been achieved by discussion.”**

-Subhash Chandra Bose

**A mile on highway
takes you to one mile.
A mile on runway,
takes you anywhere...**

Be a pilot to fulfil
your dreams, your passion
or to have an exciting
career in Aviation.

-Jaydev Desai

What is Ultralight Aircraft?

- Ultralight aircraft is an aircraft with only one or two seats and whose maximum take-off weight is less than 600 kg.
- Ultralight aircraft can be a fixed wing aircraft or a rotary wing aircraft. In rotary wing ultralight category, there are two types of aircraft; Helicopter and Gyrocopter or Gyroplane.
- We at AviaTraining are focused only on rotary wing ultralight aircraft, i.e. Ultralight Helicopter and Gyroplanes.

“ Once you have tasted flight, you will forever walk the earth with your eyes turned skywards.”

- Leonardo Da Vinci





Why Ultralight Aircraft?

- **Ease of operation:**
Easy to fly and easy to maintain.
- **Affordable:**
Cheaper than high end luxurious cars.
- **A versatile flying machine:**
Has varied utility values for individuals, corporates and industries as well as governments.
- **Motivates job creators:**
It has potential to set up a start up in aviation sector with comparatively very low investment.
- **Encourages start up culture with R & D in aviation sector.**

**“Unless you spread your wings,
you have no idea how far you can fly.”**



Gyroplane Pilot License (GPL) requires candidate to:

- Obtain computer number.
- Obtain physical fitness certificate with Medical Category II from a registered doctor.
- Prepare and pass viva for Student Pilot License (SPL).
- Clear FRTOL (Flight Radio Telephone Operator's License) examination.
- Clear two ground subjects:
 - Paper 1 (PPL Composite)
 - Paper 2 (PPL Technical General)
- Undergo 40 Hours of flying training that includes:
 - Instructional flying hours with instructor (25 Hours)
 - Solo flying (15 Hours)
 - Cross country flying (Not less than 5 hours)
- Expected time to complete the course (3 Months).

**The sky is not the limit;
it's just the beginning.
Every flight is a step closer
to mastering your dreams.**





PPL COMPOSITE (PAPER-1)

- The PPL Composite (Paper-1) consists of the following subjects:

(a) Air Navigation.

This subject covers theoretical and practical aspects of navigation, including chart reading, flight planning, and the use of navigational aids.

(b) Aviation Meteorology.

This subject focuses on understanding the Earth's atmosphere and its impact on aviation, including weather codes, plotting, and synoptic meteorology.

(c) Air Regulations.

This subject covers the rules and regulations governing civil aviation, including aerodrome procedures, communication and navigational facilities, and customs and health regulations.



PPL TECHNICAL GENERAL (PAPER-2)

- The PPL Technical General (Paper-2) consists of the following subjects:

(a) Principles of Flight.

This subject covers the fundamental principles of aerodynamics, including lift, drag, thrust, and weight.

(b) Aircraft Systems.

This subject covers the various systems of an aircraft, including electrical, hydraulic, and mechanical systems.

(c) Engines.

This subject covers the principles of operation of aircraft engines, including reciprocating and turbine engines.

(d) Instrumentation.

This subject covers the various instruments used in an aircraft, including flight instruments, navigation instruments, and engine instruments.

(e) Flight Performance and Planning.

This subject covers the principles of flight performance, including mass and balance, take-off and landing performance, and flight planning.





After successful training candidate shall be awarded Gyroplane Pilot License (GPL) from DGCA. This would enable you to:

- Fly a gyroplane.
- Make you eligible to be employed as a Gyroplane Pilot.
- It would be possible for you to be Gyroplane Pilot Instructor after 100 hours of flying experience.
- Will enable you to fly gyroplane of an Aero Sports Club.
- You may upgrade yourself at a later date with CPL of either helicopter or fixed wing aircraft.

Touch the Sky with Glory.



Scan the QR Code and apply to be a Gyroplane Pilot holder.

- Documents require to be submitted with application are:
 - Copy of Aadhar Card
 - 10th pass marksheet
 - 12th pass marksheet
 - Passport size photo

The journey towards your dreams begins with the courage to take the first step. The sky awaits those who dare to soar...



Our Gyroplanes: Avia – Brako

Tandem Seats

Usage: It is used for Sports and adventure activities

Make: Carpenterie Pagotto, Italy

Important Parameters

Seats type	Tandem	Empty Wt	285 Kg
No. of Occupants	2	Max Pay Load	240 Kg
Minimum Speed	60 kmph	Max T/O Wt	550 Kg
Cruise Speed	140 kmph	Power Plant	Rotax 914 UL
Max Speed	175 kmph	Configuration	4 Strokes 4 Cyl Piston
Vne	178 kmph	Power	115 HP
ROC	6 m/s	Starter	Electric
Glide Ratio	3	Intake	2 Carbs + Turbo
T/O (Take/ Off) Distance	100 m Max	Fuel Capacity	80 ltr
Distance Landing	5 m Min	Propeller	DUC
Operational Ceiling	4500 m	Diameter	1.75 m
Fuel Consumption	20 Ltr/ Hr	Rotor	Two-blade main rotor
Cockpit Dim	1.25 m	Diameter	8.4 m
Wheel Dia	0.35 m	Rotor Surface Area	55.40 m2
Range	450 Km	Flight Endurance	3 Hours





Our Gyroplanes: Avia – Tercel

Side by Side Seats

Usage: It is used for sports, adventure and other missions flying

Make: Aviation Artur Trendak, Poland

Important Parameters

Seats Type	Side by Side	Wt Empty	326 Kg
No of Occupants	2	Max Pay Load	235 kg
Minimum Speed	60 kmph	Max T/O Wt	560 Kg
Cruise Speed	130 kmph	Power Plant	Rotax 914/ Rotax 915
Max Speed	182 kmph	Configuration	4 stroke 4 Cyl Piston
Vne	200 kmph	Power	122/141 HP
ROC	6.1	Starter	Electric
Glide Ratio	03:01	Intake	2 Carbs + Turbo
Distance T/O (Take/ Off)	100 m	Fuel Capacity	2 X 60 l- 120 ltr
Distance landing	5 m	Propeller	Kasper KA - 2/3
Operational Ceiling	4500 m	Propeller Diameter	1.72 m
Fuel Consumption	20 Ltr/ Hr	Rotor	Trendak and Son AI
Wheel Dia	0.35 m	Diameter	8.4/ 8.5/ 8.8 m
Range	800 Km	Rotor Surface Area	58.60 m ²
Flight Endurance	5 Hours		

Our Helicopter: Avia – Escape

Side by Side Seats

Make: Lamanna Helicopter, Italy			
Important Parameters			
Seats Type	Side by Side	Empty Wt	290 kg
No of Occupants	2	Max pay load	310 kg
Cruise Speed	160 km/h	Max T/O Wt	600 kg
Vne	240 km/h	Power Plant	Rotax 915 is
ROC	1500 ft/min	Configuration	4 stroke, 4 cylinder
Service Ceiling	23000 ft	Power	141 hp
Fuel Consumption	13 - 24 l/h	Fuel capacity	65 L
Skid Track	5.13 ft	Rotor Dia	22.14 ft
Range	600 km	Flight Endurance	3.5 h





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