



**CENTRE FOR AEROSPACE RESEARCH  
REMOTE PILOT TRAINING ORGANISATION  
MIT CAMPUS, ANNA UNIVERSITY.**

**INDIA'S FIRST REMOTE PILOT TRAINING ORGANISATION  
UNDER UAS RULES - 2021**

# CASR REMOTE PILOT TRAINING ORGANISATION

## About US

With the dawn of Independence, the need for establishing a sound technological basis for proper industrial advancement of the country was realised. It was at this juncture that Mr. C. Rajam, with his characteristic pioneering spirit, patriotic fervour and unwavering enthusiasm founded the Madras Institute of Technology (MIT). In July 1949, MIT was established as an All India Technological Institution with the two-fold objectives of providing engineering education of University standard in specialised fields along with Facilities for research in these and allied fields, free from regional limitations both regarding its staff and students.

Since then the Institute has continuously grown in strength with additions of new disciplines, a dynamic curriculum in tune with today's changing requirements and student intake at the under and post-graduate levels as well as research scholars working for their doctoral degrees. The Institute became a constituent unit of Anna University in 1978. The Centre for Aerospace Research (CASR) came into being in the year 2001 and focuses on advancing research in Aerospace Sciences.

In 2004, the Centre for Aerospace Research begun its remarkable journey in the field of Unmanned Aerial Vehicles. Since then CASR has utilized majority of its resources in the Design and Development of UAVs as an innovative solution for addressing several societal issues and drawbacks. Presently, CASR accomplished yet another milestone by becoming India's 1st Remote pilot Training Organisation (RPTO) under UAS Rules 2021. The CASR Remote Pilot Training Organisation has been registered under the UAS rules 2021 of the Ministry of Civil Aviation and approved by the Directorate General of Civil Aviation.

The establishment plans to impart professional and proficient training to eligible candidates to meet the ever-growing need for UAV operators across the state as well as in the country. Further, CASR RPTO with its attractive training schemes and concessions will prove to be an ideal platform for students from various backgrounds and fields across the state and country.

## Mission

Our continuing mission is to generate best in the world class UAS Instructors and Pilots via the safest, most efficient training.

## Vision

Our aim to push the envelope in terms of safety and efficiency, as well as to set the standard for how we safely incorporate new users and technology into the UAS aviation system. We have a responsibility to the Indian people, the Indian airspace, and our aviation stakeholders.



# CASR REMOTE PILOT TRAINING ORGANISATION

## DGCA-CERTIFIED - RPAS TRAINING PROGRAM

### Theory Classes

DGCA Rules and Regulations  
UAS operator Registration and authorizations  
Basic principles of flight  
Fixed wing/ Rotary wing / Hybrid Operations  
UAS Integration and Maintenance  
Payload Utilization  
Drone Data Analysis  
Emergency Protocol and procedures  
Weather and metrology  
ATC Procedures and Radio Telephony  
Digital SKY familiarization  
UAS Registration

### Ground Training Classes

Hands-on UAS Training  
Assembly maintenance and Handling  
Ground Control Station (GCS) Training  
Flight Logging  
Troubleshooting

### Simulator Training classes

Identical UAS Flight training  
Multiple Modes  
Various atmospheric conditions  
Dynamic wind conditions  
Numerous shapes and pattern of flight  
Emergency Recovery

### UAS Flight Training Classes

Pre flight training | Flying Training accompanied by Instructor (Dual transmitters)  
UAS Flight maneuvers | Take-off and Landing | Hovering | Flying at various conditions  
Numerous shapes and pattern of flight | Emergency Recover and landing training  
Post flight training.

### Auxiliary Sessions

#### BVLOS Experiment & Night flying Operations

Concept of Operations | Test Procedure  
Special Operations Risk Assessment



DGCA Approved Training  
Certified Instructors  
Training Certificate  
100% Practical Training

# CASR REMOTE PILOT TRAINING ORGANISATION

## Course Fee Details

### College Students

Small category – Rs. 30,000  
Small & Medium category – Rs. 45,000  
(18% GST Additional)

### General

Small category – Rs. 45,000  
Small & medium category – Rs. 60,000  
(18% GST Additional)

### Course Duration

Small Category – 7 days  
Small & Medium Category – 10 days

## FACILITIES & INFRASTRUCTURE

Top rated DGCA approved – Instructors (Male & Female).  
Highly skilled & top rated Instructors.  
Hostel accommodation with catering facilities.\*  
Latest flight simulators, Smart class rooms & Lecture halls.  
DGCA approved Small & Medium drones.



*Eligibility: 18 years of age and above*

*Validity: DGCA – approved RPL Validity (Maximum of 10 years under Drone Rule 2021)*



# CASR REMOTE PILOT TRAINING ORGANISATION

## INFRASTRUCTURE



DH-Q4



**SMALL  
CATEGORY  
ROTARY  
WING  
UAS**

**NPNT COMPLIANT  
DGCA APPROVED**

UAS in the small category have a maximum all-up weight of 2 kg to 25 kg. The course comprises of 07-day intensive scenario-based, hands-on, and precise flying training aimed to improve piloting abilities and prepare students to operate all small category UAS in all situations. Students will be exposed to the essential equipment, tools, and procedures to ensure that their small category UAS training program fulfil the desired mission sets.



# CASR REMOTE PILOT TRAINING ORGANISATION

DH-AG-H1



**NPNT COMPLIANT  
DGCA APPROVED**

**MEDIUM  
CATEGORY  
ROTARY  
WING  
UAS**

UAS in the medium category have a maximum all-up weight of 25 kg to 150 kg. The course comprises of a 10-day intensive training schedule aimed to improve piloting abilities. Therefore, considering the complexity of systems involved including increased weight characteristics, the RPA operator / pilot is required to possess a thorough knowledge of the UAS and the same will be imparted in the present curriculum. Further, during operations of medium category UAS, several environmental factors have to be checked and monitored to ensure safe UAS operations. This course will offer clear knowledge of medium-category UAS operations, ensuring that all efforts are directed on properly implementing the mission and for preparing the students to operate a medium category UAS under all situations.


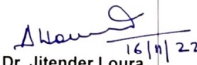
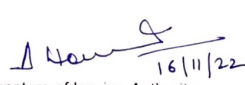
## **Benefits of Medium Category UAS Pilot Training:**

The present medium category UAS pilot training course prepares students to assist the farmers in agricultural operations like irrigation / fertilizer spraying / seed dropping and also for other applications such as extinguishing wild fires, performing Humanitarian assistance and Disaster Response activities.

The present scenario of UAV industry across the globe has created several opportunities for RPA operator / pilot in medium category aerial systems, thereby increasing their demand. Further, our RPTO is the only training organisation in India with the resources and expertise to train the upcoming UAS pilots for medium category.

# CASR REMOTE PILOT TRAINING ORGANISATION

## INDIA'S FIRST REMOTE PILOT TRAINING ORGANISATION UNDER UAS RULES - 2021

 Government of India / भारत सरकार Directorate General of Civil Aviation / महानिदेशक नागर विमानन का कार्यालय Opp: Safdarjung Airport / सफदरजंग एयरपोर्ट के सामने New Delhi - 110003 / नई दिल्ली-११० ००३				
<b>CERTIFICATE OF AUTHORISATION (Renewal)</b> <b>प्राधिकार प्रमाण पत्र (नवीनीकरण)</b>				
File NO : DGCA 31036/1/2021-Drone-dte		RPTO Approval No. :31/2022		
In accordance with Rule 34 of the UAS Rules 2021 Authorisation for the training organisation is hereby granted to				
<b>Centre for Aerospace Research (CASR), MIT Campus Anna University, Chennai, Pin: 600044, Tamilnadu,</b>				
as Remote pilot Training Organisation (RPTO) for conducting Remote Pilot Training Course specified in column no. 4 of the table below with main base of operations at				
<b>CASR, MIT Campus, Anna University Chennai, Pin: 600044, Tamilnadu.</b>				
All the operations shall be conducted in accordance with the approved Training and Procedure Manual.				
Sl. No.	Validity		Scope of approval	Signature
(1)	From (2)	To (3)	(4)	(5)
1	16.11.2022	15.11.2032*	Conditions : VLOS Category: Rotorcraft Sub-Category: RPAS, Autonomous Class : Small & Medium	 16/11/22 Dr. Jitender Loura, Dy. Director
<b>Conditions of Authorisation:</b>				
1. This authorization is limited to that specified in the scope of the Training and Procedure Manual and requires compliance laid down thereto				
2. This authorization is valid whilst the Organization remains in compliance with the Drone Rules 2021, applicable CAR and any other circulars/directions issued under the said rules by DGCA from time to time				
3. This authorization will remain valid for the duration as specified above, subject to *lease validity, unless the authorization is surrendered, superseded, suspended or cancelled				
4. This authorization is non-transferable.				
Date of original issue: 27 <sup>th</sup> May, 2021 Date of /Renewal : 16 <sup>th</sup> Nov, 2022		Stamp & Signature of Issuing Authority  16/11/22 श्री जितेंद्र लौरा / Dr. Jitender Loura उप निदेशक / Deputy Director नगर विमानन महानिदेशक / Directorate General of Civil Aviation भारत सरकार / Ministry of Civil Aviation नई दिल्ली-110003 / New Delhi-110003		

### Contact Us

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