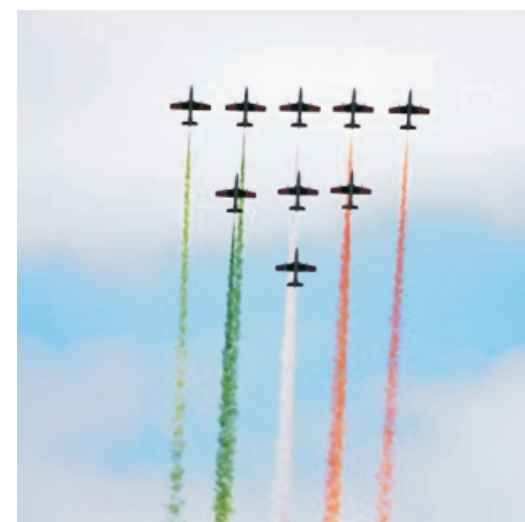


## 6 INDIRA GANDHI RASHTRIYA URAN AKADEMI



### 6.1 INTRODUCTION

Indira Gandhi Rashtriya Uran Akademi was set up at Fursatganj, Raebareli (Uttar Pradesh) to bring about a quantum improvement in the standards of flying and ground training of Commercial Pilots in the country. The Akademi is equipped with most modern and sophisticated trainer aircraft, up-to-date audiovisual training aids and other facilities for effective ground training. It employs qualified flying and ground instructors, with long experience in the field of aviation and flying training. The aim at IGRUA is not only to train a pilot but also to make him an effective systems manager in aeronautics.

The Akademi has excellent infrastructure with a fully furnished hostel of (72 rooms) for the pilot trainees and staff quarters (88 Nos.) inside the institutional area. In the Operational Area it has its own Runway & ATC, night flying facilities including Nav Aids like Distance Measuring Equipment / Very High Omni range (DME/VOR) and also Landing Aids like Instrument Landing System (ILS) & Precision Approach Path Indicator (PAPI), two hangars and complement of operational & maintenance staff. It has become a premier institution of the country in the field of flying training with most of the trainees gainfully employed with airlines after completion of their training.

### 6.2 OBJECTIVES

Objective of the Akademi is to conduct airline oriented flying training courses to the level of contemporary international standards. Akademi offers following courses :

- a) CPL training course on fixed wing aircraft, i.e. Zlin, TB 20 & King Air C90-A along with B.Sc. (Aviation) Degree Course.
- b) Ab-Initio to CPL Course alongwith B.Sc. (Aviation) Degree Course.
- c) Multi Engine Endorsement Course
- d) Instrument Rating Course
- e) Refresher Course for Chief Flying Instructor and Pilot Instructors of Flying Training Institutes.
- f) Courses for Assistant Flight Instructor Rating (A) and Flight Instructor Rating (A).
- g) Skill Tests for renewal of Licence for Ex-students of IGRUA on requirement basis.
- h) To provide Simulator training & checks and other facilities to outside aviation agencies for their Pilots Selection & Interview.
- i) WOMBAT Pilot Aptitude Test for beginners.
- j) Practical Training on aircraft to Diploma Holders in Aeronautical Engineering

Of the above, (a) & (b) courses are conducted on regular basis and the others on request.

### 6.3 ORGANISATION

Akademi is an Autonomous Body under the Ministry of Civil Aviation. Secretary, Civil Aviation is the Chairman of the Governing Council, which is the highest body of the organization.

The Akademi is headed by a Director who is assisted by Departmental Heads, such as, Chief Flying Instructor, Chief Ground Instructor, Chief Engineer & Chief Administrative Officer.

### 6.4 TRAINING

- Commercial Pilot's Licence (CPL) Course

This is the main activity of the Akademi. This course is offered to Ab-initio trainees and pilots holding Private



Pilot's Licence. Training for Commercial Pilots Licence with multiengine endorsement and instrument rating is imparted to the trainees along with training on Simulator.

- **Ground Training**

(a) Basic Training

On arrival at the Akademi, the students undergo ground training in basic aviation science subjects and also specific to Zlin & TB-20 aircraft. Ground Training in Aviation subjects comprises of 590/800 hours (depending upon the course) of class room Lectures. It sets a sound foundation for Line Oriented Flying Training (LOFT) and prepares the pilot trainees for adoption of fast developing needs of aviation industry. Flying training commences after about 20-24 weeks.

(b) Audio visual Aids

To impart ground training effectively, the Akademi has modern audio-visual aids including a large number of video training films and slides, cut-ways, working and schematic model of various aircraft components and systems, radio telephony and Morse code training lab. A Wind Tunnel, Computer Based Training (CBT) system and Pilot Aptitude Test trainer (WOMBAT)

- **Flying Training**

(a) Pre-flight Preparation

Flying training is carried out by experienced flying instructors. Group briefing on important exercises is carried out over and above thorough personal briefing and debriefing prior to and after each flight.

(b) Aircraft

(i) Akademi has inducted 06 Zlin Z242L aircraft. It is a piston single engine aircraft with fixed under carriage and is equipped with modern Nav. Aids. The basic Flying training to ab-initio Cadets is imparted on this aircraft.

(ii) Akademi has 13 Trinidad TB-20 Aircraft. Flying training is imparted on this aircraft, which is a piston single engine aircraft with variable pitch propeller, retractable undercarriage and is equipped with modern Nav Aids. The aircraft is ideal for Line

Oriented Flying Training (LOFT) and instrument flying training.

(iii) Akademi has two King Air C-90A aircraft. The final stage of training is carried out on this aircraft. This is a twin-engine turbo prop aircraft with pressurized cabin. The aircraft is equipped with modern and sophisticated radio & navigational aids. Particular attention is paid to Line Oriented Flying Training. The students graduate with multi-engine endorsement and instrument rating on their Commercial Pilot Licence.

(c) **FLYING TRAINING SYLLABI**

Single Engine	
For Abinito to trainees	20.00 hrs. training on CPL Cockpit Procedure Trainer 40.00 hrs. flying on Zlin Z242L aircraft 145.00 hrs. flying TB-20 aircraft
For PPL to CPL Procedure trainees	20.00 hrs. training on Cockpit Procedure Trainer 125.00 hrs. flying TB-20 aircraft

- **Multi-Engine Training**

Training for both the above courses are taken up for 20 hrs. on King Air C-90A Simulator followed by 15 hrs. of flying on King Air C-90A aircraft. The trainees are graduated with CPL, Instrument Rating along Multi-engine rating endorsement of King Air C-90A aircraft. The endorsement of King Air C-90A aircraft puts the IGRUA trainees at a distinct advantage than other trainees including those having trained abroad in the Airlines employment market.

- **Simulator Training**

The Akademi has a modern upgraded King Air C-90A simulator with visual system for giving intensive training to pilots in normal and emergency procedures and for instrument flying exercises. Two single engine TB-20 Flight Simulators and two Touch Panel Trainers, one for King Air C-90A aircraft and one for Boeing-737 aircraft are also in operation. In addition a glass Cockpit Procedural Trainer (HPT) is also available which is programmed to fly eight different

types of aircraft under visual systems. All these are made use of in developing the trainees.

**6.5 MAIN ACHIEVEMENTS**

The details of pilot's trained/under training in the Akademi during the last 7 years are as follows :

	Total No. of Trainees	
	Completed	Under Training
Fixed Wing (CPL/IR/ME)	129	112
Multi-engine endorsement (other than regular trainees)	146	02
<b>TOTAL</b>	<b>275</b>	<b>114</b>

Flying training of 2<sup>nd</sup> Ab-initio, 3<sup>rd</sup> Ab-initio, 4<sup>th</sup> Ab-initio to CPL 3<sup>rd</sup> IAC/FE CPL and 1<sup>st</sup> Para Military CPL training courses are in progress.

- **NUMBER OF HOURS FLOWN DURING THE YEAR 2006 (JAN.-DEC.)**

Type of Aircraft	Hours Flown
Zlin Z 242L	910.40
Trinidad TB-20	6045.10
King Air C-90A	497.55
<b>TOTAL</b>	<b>7453.35</b>

The standard achieved by the students during their training at the Akademi is comparable to international standards. The performance of the graduates of the Akademi, who have joined Air India, Indian Airlines and other private Airlines has been appreciated by their respective employers.



## 6.6 POLLUTION CONTROL

Maintenance of aircraft and its equipments/spares is being done in the Akademi, which does not involve any production/manufacture. However, the following steps are taken in the Akademi for pollution control:

### (a) Control of Ambient Air Pollution

(i) Vehicle engines are properly maintained within the prescribed limits.

(ii) Solid waste is burnt in a manner as to cause minimum fumes.

(iii) Forestation is actively pursued to maintain a green environment in the Akademi

### (b) Waste Water Disposal

The Akademi has proper under ground drainage and an efficient sewerage plant to ensure that the water sources are not polluted in any manner.

(c) Control of Pollution from Chemical and other waste

The Akademi does not possess such plants / machinery, which produce chemical and other waste.

## 6.7 STEPS TAKEN TO IMPROVE PUBLIC GRIEVANCE REDRESSAL MACHINERY

The nature of operation of the Akademi is such that it hardly involves any public dealing. However, an officer is available in the Akademi to look after the public grievance and at present no public grievances exist.

## 6.8 IMPLEMENTATION OF OFFICIAL LANGUAGE

The Akademi continues to take necessary steps for ensuring the implementation of all provisions of the Official Language Act & Rules. Employees are given training in Hindi, Hindi Typing etc. Incentives are given to employees for successfully qualifying Hindi Typing Test. Computers have been modified with Hindi software. Efforts are being made to implement Hindi as medium of instruction.