

INDIRA GANDHI RASHTRIYA URAN AKADEMI

ANNUAL REPORT - 2016-2017

INTRODUCTION

Indira Gandhi Rashtriya Uran Akademi was set up in September 1986 at Fursatganj near Raebareli (Uttar Pradesh) to bring about a quantum improvement in the standards of flying and ground training of Commercial Pilots in the country.

IGRUA is managed by CAE, Canada to scale up the standards at par with international Standards since 1st Mar 2008 in pursuance to the management contract between the Ministry of Civil Aviation and CAE, Canada.

OBJECTIVES

The objective of the Akademi is to conduct airline oriented flying training courses to the level of contemporary international standards. The courses offered are:

- a) Ab-Initio to CPL Course on fixed wing aircraft. Instrument rating and multi engine endorsement is part of this course.
- b) Three years Graduation programme leading to award of B.Sc. (Aviation) degree through Chhatrapati Shahuji Maharaj University, Kanpur
- c) CRM & Multi Crew Conversion Course on DA 42 aircraft.
- d) Refresher Course for Certified Flying Instructors and Pilot Instructors of Flying Training Institutes.
- e) Courses for Assistant Flight Instructor Rating (A) and Flight Instructor Rating (A).
- f) Skill Tests for renewal of Licence for Ex-students of IGRUA on requirement basis.
- g) To provide Simulator training & checks and other facilities to outside aviation agencies for their Pilots Selection & Interview.
- h) Practical Training on aircraft to Diploma Holders in Aeronautical Engineering.

INFRASTRUCTURE

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 to make a pilot but also to make him an effective systems manager in aeronautics. The flying trainees of the Akademi acquire the standards required for their transit with ease into the cockpits of the airlines.

The Akademi has fantastic infrastructure that permits the growth of a school pass level individual to a confident commercial pilot fit to be absorbed by the airlines. It has three hostels (including a separate Girl's hostel) which can house 248 boys and 40 girls on a twin sharing basis. IGRUA campus also has residential accommodation for its staff. Its ground school is housed in the residential area. The operational area has a 6080 feet runway with a parallel taxi track, dispersal area and three hangars. The complete area is equipped with night flying facilities including a PAPI. IGRUA airfield has its own nav and landing aids in terms of VOR/DME and ILS. It has its own safety services, Fuel Storage tanks and Air Traffic Services. IGRUA also has dedicated air space earmarked for it to enable uninterrupted training. This unique model wherein IGRUA owns the airfield and its operating services allows it the freedom to provide quality training.

ORGANISATION

The Akademi is an Autonomous Body under the control of the Ministry of Civil Aviation. The Governing Council with Secretary, Civil Aviation as its Chairman is the highest body of the organization.

The Akademi is headed by a Director who is assisted by Departmental Heads.

GROUND TRAINING

(a) Basic Training

On arrival at the Akademi, the students in the initial phase undergo Ground Training in Basic Aviation Science subjects along with the subjects specific to the aircrafts like Zlin, TB-20 aircraft, **DA40 and DA42** Aircraft which they are likely to fly.

The Ground Training in Aviation subject comprising **505** hours of Class Room Lectures. **(380 hours for CPL and 125 hours for ATPL Course)**

This sets a sound foundation for the Line Oriented Flying Training (LOFT) which follows, thus preparing the Pilot Trainees to adapt to fast developing needs of Aviation Industry.

(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, working and schematic models of various aircraft components and systems and a Computer Based Training (CBT) system.

FLYING TRAINING

(a) Pre-flying Ground Training (PFGT)

PFGT 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 on the simulator and aircraft.

(b) Simulator Training

Single engine training is carried out on two Diamond DA40 flight simulators with CAE visual system having 180 degree field of view. The Akademi also has two single engine TB-20 flight simulator with visual system for initial flying training and instrument rating exercises.

For multi-engine training a Diamond DA42 flight simulator with CAE visual system having 180 degree field of view is available.

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(c) **AIRCRAFT**

- (i) The Akademi has **Thirteen** DA40 aircraft equipped with glass cockpit.
- (ii) The Akademi also has **Five** Trinidad TB-20 aircraft. TB-20 aircraft is a piston single engine aircraft with variable pitch propeller, retractable undercarriage and is equipped with modern Nav Aids.
- (iii) In addition, the Akademi has **Four** Zlin Z242L aircraft. It is a piston single engine aircraft with fixed under carriage and is equipped with modern Navigational Aids.
- (iv) The Akademi has **Two** DA 42 aircraft. The final stage of training is carried out on this aircraft. This is a twin-engine aircraft. 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.

(d) **FLYING TRAINING SYLLABI**
For Ab-initio toCPL trainees
Single Engine

- For Ab-initio to CPL trainees - 20.00 hrs. Simulator training on FNTP.
- 185.00 hrs flying on TB-20/DA-40/Zlin aircraft.

Multi-Engine Training

The trainees are graduated with CPL, Instrument Rating along Multi-engine rating endorsement on Diamond DA-42 type of aircraft. They fly 15:00 hrs on it. In addition they fly 15:00 hrs. on DA-42 Simulator.

(e) **CREW RESOUC E MANAGEMENT (CRM) AND MULTI CREW CONVERSION COURSE (MCC)**

In addition to the ground and training syllabus, trainees are put through a capsule course on CRM. They also go through a two week MCC after completion of their CPL syllabus. This additional training prepares them better for absorption in the airlines.

MAIN ACHIEVEMENTS

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

Particulars	Total No. of Trainees	
	Completed (2009-10 - 2014-15)	Under Training
Fixed Wing (CPL/IR/ME)	343	74
Multi-engine endorsement (other than regular trainees)	45	-
TOTAL	388	74

Flying training of 132 (No. of Trainees) trainees is in progress.

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(b) **NUMBER OF HOURS FLOWN DURING THE LAST 07 FINANCIAL YEARS
(APRIL – MARCH)**

Year (April to March)	Hours Flown
2009-10	11993:25
2010-11	16231:35
2011-12	16760:00
2012-13	16006:00
2013-14	18774:25
2014-15	13461:10
2015-16	13341:40
2016-17 (Till 31.12.2016)	10725:25

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 and other private Airlines has been appreciated by their respective employers. The quality of training imparted at IGRUA is showcased by the fact that even Indian Navy and Indian Coast Guard send their pilots for abinitio training to IGRUA.

(c) **Internet/LAN facility**

In order to improve the communication facility as well as to keep updating all aviation related matters which could be a part of training curriculum, IGRUA has provided internet facility in almost all important official location and the facility of training data sharing is also provided through the Local Area Networking (LAN).

(d) **Web Camera**

To facilitate better management of the man and machinery by improving the surveillance/safety over the different functional areas in the Akademi, Web Cameras are installed at all important locations like Aircraft Tarmac and aircraft maintenance workshop, Class Rooms, Flight Operations, Messing Area, Airport/ Institutional exit areas, etc

(e) **Video Recording of Take Off/Landing**

All take off and landings are videographed and fed into LAN server. This facilitates frame by frame debrief by the flying instructors.

SWATCHH BHARAT

(a) Solid Waste Disposal:

The bio-degradable solid waste materials collected from Mess Kitchen & from residential area are processed in a newly established Vermiculture Yard. The manure is being used in various gardens of the Akademi.

(b) Waste Water Disposal:

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

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 being taken in the Akademi for pollution control:

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

CITIZEN CHARTER

Citizen Charter of IGRUA has been prepared and uploaded on our web site. A Citizen can visit the website of IGRUA at www.igrua.gov.in. Citizens can make request to our Public Information Officer (PIO) Mr. R.K. Dwivedi and Appellate Authority (Director IGRUA) for any information under RTI Act.

WOMEN'S WELFARE

IGRUA has Fifteen women employees (3 Regular + 13 Contractual) and their welfare is being looked after through normal administrative channels. A committee comprising three members is also looking after the women welfare issues pertaining to sexual harassment.

STEPS TAKEN TO IMPROVE PUBLIC GRIEVENCE REDRESSAL MACHINERY

The nature of operation of the Akademi is such that it hardly involves any public dealing. However, Manager HR is assigned the task of dealing with public grievance. Public grievances are regularly monitored by Manager HR. At present no public grievances exist.

VIGILANCE

To enable better preventive measures towards vigilance CVO Pawan Hans Helicopters Limited has been given the additional charge of IGRUA Vigilance activities. This has heightened the awareness levels of the employees towards corruption.

ISSUE RELATED TO DEVELOPMENT ACTIVITIES TAKEN IN NORTH EAST

Akademi is an Autonomous Body having its Headquarter at Fursatganj, Amethi (UP) only and hence there is no such issue.

WELFARE OF SENIOR CITIZEN

In accordance with the guidelines issued by Ministry of Social Justice & Empowerment, as envisaged in the National Policy on Older Persons, instructions have been issued to all concerned to ensure prompt, fair and humane treatment for older persons.

REPRESENTATION OF SCs/STs/OBCs

The details of representation of SC/ST/OBC as on 31/12/2016 is given in the chart below:

Name of Organisation	Total No. of Emp.	Total No. of SC Emp.	% age	Total No. of ST Emp.	% age	Total No. of OBC Emp.	% age
1	2	3	4	5	6	7	8
Indira Gandhi Rashtriya Uran Akademi	164	33	20.12	1	60	67	40.85

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 being trained in Hindi, Devnagri Typing etc. Incentives are given to employees for successfully qualifying Devnagri Typing Test. Computers have been modified with special Hindi Software for use of Hindi. A Hindi magazine “**Kshitij**” is published regularly by IGRUA.

SPORTS FACILITIES

IGRUA has indoor and outdoor sports facilities for games like squash, badminton, basketball, volleyball, football, table tennis, pool table and a well equipped gym with multi-gym equipments. A newly constructed swimming pool is also available.

CULTURAL ACTIVITES

IGRUA has a Musical Instruments Room. Cultural programs are periodically organized to encourage extra-curricular activities.

IMPLEMENTATION OF PERSONS WITH DISABILITY (PWD) ACT 1995

In accordance with the guidelines issued by Ministry of Social Justice & Empowerment on Persons with Disabilities has been implemented and due consideration is being given to

disabled persons. For smooth functioning of the disabled persons, barrier free access in the office buildings has been provided in all buildings.

IGRUA is a flying training institute the nature of job in Group A, B and some of the C posts is highly technical. Hence, the possibility of appointing disabled person in these jobs does not exist. However, two disabled persons are working in IGRUA.

IGRUA has no separate Scheme, Budget Allocation and Expenditure for persons with disability but their welfare is being looked after by the Administration/Liaison Officer.

FEE STRUCTURE

Training Fee for Ab-initio to CPL Course with Multi Engine endorsement is Rs.32.50 lacs (plus applicable taxes) and Boarding & Lodging charges (approximately Rs.8,000/- P.M.).

FUTURE PLANS

Ministry of Civil Aviation plans to upgrade IGRUA campus to a knowledge and training hub. To this end a National Aviation University is under construction at IGRUA campus. An AME school is being established at IGRUA. Construction of the building has been completed. The course will start shortly after completion of necessary formalities. International tie up for European Certification along with DGCA certification is in plan.

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