

In a strategic collaboration aimed at revolutionizing aviation education in India, Nitte Deemed to be University, Mangalore and Aerodynamiks Academy proudly introduce two pioneering 4-year undergraduate programs in BSc (Hons) Civil Aviation Pilot Training (CAPT) and BSc (Hons) Civil Aviation Flight Dispatcher (CAFD). These programs are designed to meet the rigorous demands of the aviation industry, both nationally and internationally, equipping students with the necessary skills, knowledge and practical experience to soar high in their aviation careers.

About Nitte University

Ranked 66th in NIRF 2024 and accredited with A+ Grade by the National Assessment and Accreditation Council of India (NAAC), Nitte University has consistently been at the forefront of delivering world-class education across multiple disciplines. Known for its cutting-edge infrastructure, academic excellence and strong industry partnerships, Nitte University ensures that its students are well-prepared for the global job market. With its unique emphasis on practical-based learning, students at Nitte benefit from state-of-the-art facilities, experienced faculty and real-world exposure.

About Aerodynamiks Academy

Aerodynamiks Academy, a leader in aviation education, brings its expertise in training professionals for the aviation industry, ensuring that students receive training, aligned with international standards. Through this collaboration, Aerodynamiks Academy provides the practical experience and theoretical knowledge essential for aspiring aviation professionals, utilising world-class simulators, flight labs and aviation-specific training modules. The faculty consists of experienced professionals who have held critical positions in the global aviation industry.



PROGRAMS



BSc (Hons) Civil Aviation Pilot Training (CAPT)

This program is the first of its kind in Karnataka, aligning with the prestigious European Union Aviation Safety Agency (EASA) standards. It is meticulously crafted for students who aspire to become professional pilots. The program covers a blend of theoretical studies and rigorous hands-on flight training, ensuring students are fully prepared for the challenges of commercial aviation.

Highlights

- Comprehensive training in aerodynamics, air navigation, meteorology and aviation law.
- In-depth CPL (Commercial Pilot License) training with 230 hours of flight training (200 hours on aircraft and 30 hours on simulators).
- Multi-engine endorsement and instrument rating, ensuring students are job-ready in a global aviation market.
- Training aligned with international aviation safety and regulatory standards.

BSc (Hons) Civil Aviation Flight Dispatcher (CAFD)

This is India's first BSc (Hons) Civil Aviation Flight Dispatcher program, designed to cater to the growing demand for trained professionals in flight dispatch and airline operations. The program trains students in managing flight operations, crew resource management and aviation safety, with a focus on air traffic regulations and flight planning.

Highlights

- Specialised training in aviation safety, flight dynamics and air traffic management.
- Hands-on learning through observation flights, industry visits and interaction with industry veterans.
- Curriculum designed to develop critical thinking, analytical abilities and problem-solving skills essential for modern airline operations.

Eligibility

Pass in Class 12 from any recognized Board, with Physics & Mathematics as optional subjects with minimum 45% marks in aggregate. Candidates should have completed 17 years of age as on 31st December of the year of admission.

Candidates seeking admission to BSc (Hons) CAPT should submit Class II Medical Certificate.



Detailed Year-by-Year Curriculum

Both the BSc (Hons) CAPT and BSc (Hons) CAFD programs span 4 years. The 4th year involving advanced training is optional allowing the students to graduate at the end of 3 years with a BSc degree. Each year builds upon the previous one, combining classroom learning with practical experience. Below is a detailed breakdown of the curriculum:

1st Year

**BSc in Civil Aviation Pilot Training (CAPT) &
BSc in Civil Aviation Flight Dispatch (CAFD)**
(Private and Commercial Level)

Air Regulations
Air Navigation
Air Meteorology
Radio Telephony and Communications
Aircraft Performance
Aviation English

2nd Year

**BSc in Civil Aviation Pilot Training (CAPT) &
BSc in Civil Aviation Flight Dispatch (CAFD)**
(Airline Level)

Aviation Weather
Aviation Law
Jet Oriented Training
Airline Route Navigation
Jet Aircraft Performance
Human Factors
Crew Resource Management (CRM)
Safety Management System (SMS)

3rd Year

BSc CAPT

Flight Training

230 Hrs Flight Training,

- 200 Hrs on Aircraft
- 30 Hrs on Approved Flight Simulator

Flight Training as per DGCA Requirements for Commercial Pilot License with Instrument Rating & Multi Engine Endorsement.

BSc CAFD

Navigation & Air Traffic Management

Flight Planning & Monitoring

Aviation Indoctrination

Aircraft Mass (Weight & Balance)

Civil Air Law and Regulation

Flight Dispatch Function

Security & Transport of Dangerous Goods

4th Year (Optional)

BSc (Hons) in Civil Aviation Pilot Training (CAPT) & BSc (Hons) in Civil Aviation Flight Dispatch (CAFD)

Aviation Security

Command Orientation Training

Pilot Competencies

Flight Instructor Training

Aircraft Accident and Incident

Dangerous Goods

Training Facilities

Students have access to the latest aviation training technologies that include:

- ✈ **Flight Simulators:** For real-time, immersive flight training.
- ✈ **Smart Classrooms:** Equipped with the latest audio-visual aids to facilitate interactive learning.
- ✈ **Aircraft Familiarisation:** Hands-on exposure through observation flights and visits to maintenance hangars and air traffic control towers.

Industry Exposure and Internships

Both programs are designed to ensure that students gain real-world experience through industry visits, internships and interactions with seasoned professionals in the aviation industry. These opportunities provide insights into day-to-day airline operations and help students build valuable industry connections. Internships, visits to maintenance hangars and air traffic control towers, as well as simulator facilities, aircraft familiarization and observation flights for students will be part of the curriculum.

Career Opportunities

Graduates of BSc (Hons) CAPT and BSc (Hons) CAFD programs will find themselves equipped with the knowledge and skills needed to excel in various aviation careers. Some of the career paths available to graduates include:

BSc (Hons) CAPT

- Commercial Pilot
- Corporate Aviation
- Flight Instructor
- Charter Pilot

BSc (Hons) CAFD

- Flight Dispatcher
- Airline Operations Manager
- Aviation Safety Officer
- Air Traffic Management Specialist

FEE STRUCTURE

✈ Tuition Fee: Rs.2 Lakhs per annum.

✈ Flying Training cost (for CAPT):

- India: Rs.42 Lakhs – Rs.45 Lakhs
- USA: Rs.55 Lakhs – Rs.60 Lakhs
- South Africa: Rs.38 Lakhs – Rs.40 Lakhs.

✈ Hostel fee: Rs 1.10 Lakh per year (approximate)



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