The Next Step

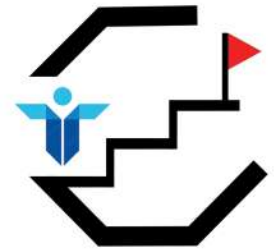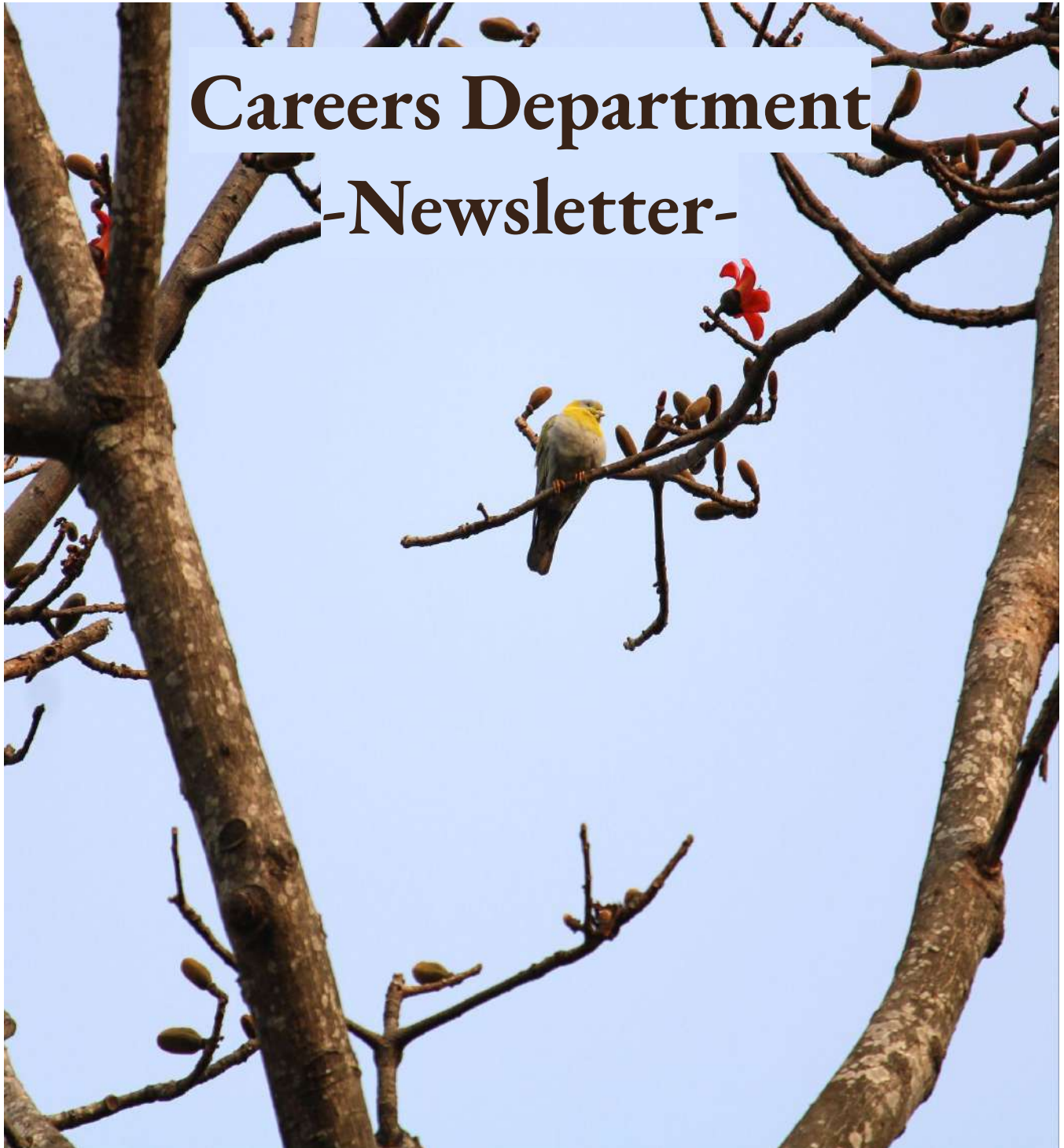### Great guidance for a great future

Careers Department
-Newsletter-

Twelfth Edition, February - 2023

EDITOR'S NOTE

Hello Readers,

To a zealous 30 days, We present to you the twelfth edition of "The Next Step".
'The journey of a thousand miles begins with small steps.' This edition chiefly comprehends the career, of the Pilot. From requirements to institutes, all are included. Piloting, all in all, is a vast career. There are a lot of things one needs to examine before getting into the journey of being a pilot. This edition answers all the queries one might have regarding the career.

Furthermore, this also incorporates Germany, being the next education hotspot. There are a lot of reasons why Germany is one of the best countries to study abroad. Continuing our last edition, this edition also includes many online summer courses on various fields like engineering, psychology, Business & Entrepreneurship, etc.

Sidhi Agarwal

Editor-in-chief

CAREER AS A PILOT

Many students are confused about choosing the right career options after class 12. While there are various options for science students after class 12, we tend to hypothesize that Medical Science and Engineering are the best courses for science students. However, that may not always be the case. We have other options too, for example, a Career in an Airline, which is a highly-paid career around the world. Every day scores of travelers fly across the world regularly. We all do the same when we want to travel from one destination to another destination in numerous ways such as by road, by train, by boat, and by flight. The quickest way of travel is on a flight. In a few hours, you will reach the other parts of the world. During emergencies, this is the safest and easiest way to reach your destination.

Do you know how to make a career in an airline? No? Then, read on! This article will help you understand a career in airlines.

A career as an airline pilot is one of the most ambitious, respected, and well-paying jobs out there. An airline pilot is always in high demand, therefore, a career in the aviation industry is quite promising. Navigators or flight engineers and other aircrew members are considered aviators. These professionals are also considered aviators because they are involved in operating the aircraft's navigation systems.

In the aviation industry, an airline pilot is someone who operates aircraft to transport passengers or goods from one location to another. Commercial airlines, corporations, or governments hire aviators. An airline pilot can be self-employed or work for an individual. A Captain works independently and provides private transport on small aircraft or private jets. Aviation is a diverse career field with several opportunities in both the public and private sectors.

WHO IS A PILOT?

Highly trained professionals who go through in-depth training for flying various kinds of aircraft are known as pilots. There are different specialization courses available for different types of aircraft. From learning to operate various types of aircraft such as passenger aircraft, goods aircraft, and mail aircraft, pilots are also responsible for maintaining the internal mechanisms of aircraft. There are different types of pilots based on what kind of streams and subjects, candidates pursue.

Types of careers in Airline after class 12: -

There are several types of pilots depending on the streams and subjects that candidates are interested in.

- **Airline Transport Pilots** - Airline transport pilots are pilots who operate commercial jets for private airlines and transport customers.
- **Private Pilots** - Those who can afford a private jet like to have private pilots who can take them wherever they need to go at any time.
- **Sport Pilots** - Sport Pilots must fly below 10,000 feet and generally keep below a set range.
- **Flight Instructors** - They work for a training institution and are responsible for teaching aspiring pilots how to fly.
- **Air Force Pilots** - They are experts in flying armed planes and serve for the defense ministry, having been trained by the country's air force.

Benefits of a Career as a Pilot

- **Good Pay scale:** Pilots receive substantial salaries that enable them to lead comfortable lives and pursue their financial goals. As a pilot, one can go free of cost to locations they have never been to if they are paid well.
- **Job security:** Pilots are in demand since there is a growing need for them.
- The aviation business is always changing, and there is a lot for pilots to learn. This change improves your multitasking abilities.
- **Non-Monetary Benefits:** Pilots get various health benefits, complimentary lodging, meals, and other allowances, as well as travel savings for friends and family.
- Pilots can travel according to their requirements and preferences because of their flexible work schedules.

Eligibility Criteria - To enroll in any of the Aviation courses, you will be required to fulfill eligibility criteria as set by the institute or academy. Enlisted are the eligibility requirements to become a pilot after the 12th in India:

- Your age should not be less than 17 years to begin training
- You must have scored 50% in 10+2 which may vary as per the Institute's requirement
- You must have studied **MPC subjects** [Mathematics, Physics, and Chemistry] along with English at the intermediate level
- If you are a non-science student, you may pursue the required subjects through the National Institute of Open Schooling or as a private candidate from the respective state board
- You will need a medical certificate issued by the concerned authorities.

Pilot Courses after 12th

Opting for a Commercial Pilot Training [CPL] program after 10+2 is yet another way to become a pilot after 12th. For this, you will be required to clear an entrance exam, interview, and a medical test set by the institute. The fees of Pilot Training courses after 12th range from INR 15 Lakhs to 20 Lakhs and can also vary if you plan to study abroad. Here are the top institutes for Pilot Training courses after the 12th:

- Indira Gandhi Rashtriya Uran Academy
- Bombay Flying Club
- Rajiv Gandhi Academy of Aviation Technology
- Madhya Pradesh Flying Club
- National Flying Training Institute

Through NDA Exam

In India, the coveted NDA exam is a golden opportunity for those who want to become a pilot after 12th. Upon completion of the 3-year-long course, you also have to attend flying training. Thereafter, you will work as a permanent commission officer.

Other Essential Details on How to Become a Pilot After 12th:

- It is necessary to clear the class 2 medical examination of DGCA
- Join an aviation institute
- Fly for at least 200 hours
- Clear the exams
- Get the CPL certificate

Get the Flying Experience

If you are aspiring to become a pilot, you are required to achieve a certain number of flight training hours to earn a license. The training hours depend upon the desired type of pilot program. For instance, for a commercial pilot's license, 250 hours of flying are needed, and 1,500 hours of flight time for an airline pilot. Formal training equips you with basic education, however; to gain in-depth knowledge and experience, you can hire a personal instructor or even join the military for exposure.

Skills required to become a pilot

As a pilot, you can benefit from developing a core skill set. You can face all kinds of challenges as a pilot, and having good skills can help you succeed in many situations. It is desirable if you have the following:

- Ability to work well in a team and demonstrate leadership qualities
- Communication and teamwork
- Decision-making and stress management
- Excellent communication skills
- Excellent spatial awareness and coordination, and the ability to remain calm under
- pressure
- Good understanding of mathematics and physics
- Leadership

Work Profile & Lifestyle of Pilot –

- A career as a pilot is a rewarding one in terms of money and job satisfaction. Pilots live a
- luxurious lifestyle like that of celebrities; something that is facilitated by the companies. The
- field of a pilot is attractive and adventurous as it offers opportunities to travel worldwide.
- The following tasks include the responsibilities of a pilot: -
- Performing pre-and post-flight aircraft inspections
- Ensuring the comfort and safety of the crew, passengers, and aircraft
- Determining risks that may occur
- Communicating with required agencies and personnel

Salary and Pay Scale

A Commercial Pilot License holder's salary is based upon the country and the companies they work for. As per the report of the pay scale, the average salary for a Commercial Pilot in India is 1,770,760 INR apart from the salary, pilots also get a bonus of around INR 75,000 in India.

License to Become a Pilot

- An individual with a private pilot license (PPL) can operate small jets and private aircraft. They are unable to pilot commercial aircraft. They work as personal jet pilots for the wealthy or the government.
- An individual with a Certified Flight Instructor (CFL) License can instruct flying classes at flying training facilities. Future generations receive their information from them.
- The most sought-after license to become a pilot after completing high school is the commercial pilot license (CPL). Big airline commercial jets can only be flown by those having a commercial pilot license.

Employment Area for a Pilot

A pilot is prestigious and has a vast scope worldwide with a high salary package. There are various employment areas available after the completion of the course such as: -

- Government International Airlines
- Government Domestic Airlines
- Airports
- Chartered Airlines
- Corporate Airlines
- Commercial Airlines

Job Opportunities for a Commercial Pilot

- Indian Airlines
- Air India
- Go Air
- Jet Airways
- Singapore Airlines
- Delta Airlines
- British Airways
- Qatar Airways
- Lufthansa
- Virgin Atlantic
- Go Air
- Cathay Pacific

BEST INDIAN COLLEGES

To study and train for a Pilot in India, here are some of the most renowned colleges in the country.

- **Indira Gandhi Rashtriya Uran Academy -** https://igrua.gov.in/
- **Bombay Flying Club -** https://thebombayflyingclub.com/
- **Rajiv Gandhi Academy of Aviation Technology -** https://rajivgandhiacademyforaviationtechnology.org/
- **Madhya Pradesh Flying Club -** https://mpfc.in/index.php/about/
- **National Flying Training Institute -** https://www.cae.com/civil-aviation/locations/cae-gondia-
- nfti/
- **Ahmedabad Aviation and Aeronautics Limited -** https://www.aaa.co.in/
- **CAE Oxford Aviation Academy**
- **Indigo Cadet Training Program**

- **Government Aviation Training Institute**
- **Puducherry Thakur College of Aviation**
- **Government Flying Club**
- **Orient Flying School**
- **Institute of Aviation and Aviation Safety**

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3. https://collegedunia.com/courses/private-pilot-license/how-to-become-a-pilot
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NOT ANY OTHER COUNTRY BUT GERMANY CAN BE YOUR "STUDY ABROAD STOP"

For the last two decades almost, the United States, Canada, the United Kingdom, etc. held the top spot for Indian students. But now, there is a dramatic wave of change. In recent times, Germany emerged as the leading destination for students all around the globe.

Why should we consider Germany as an education stop?

TOP NOTCH UNIVERSITIES

German universities have garnered a great reputation for offering excellent quality education in the field of technology, engineering, architecture, law, and more. In addition, the consistent use of a practice-oriented teaching method ensures that the students establish a strong practical foundation, which is of course extremely important in the current professional environment. So, earning a degree from any globally recognized German university can undoubtedly help you land your dream job.

LOW TUITION FEES

When selecting your study abroad destination, one factor that is imperative to consider is the tuition fees. Earning a master's degree from a public university in Germany doesn't require you to bear any tuition fees. You are required only to pay a semester fee that ranges from €65 to €240 (maximum Rs. 24000). In fact, studying at a private university in Germany is a lot cheaper than in any other nation.

A PLETHORA OF SCHOLARSHIPS TO BENEFIT FROM

While studying abroad can strengthen your chances of surviving in a competitive job market, to afford a living there till you earn your degree can be overwhelming. However, applying for a scholarship in Germany allows you to get rid of a heavy chunk of your financial liability. Both private and public universities offer numerous scholarships for international students that can entirely finance your study programs in Germany.

POST-DEGREE VISA ADVANTAGE

In most countries, what truly becomes a cause of stress for an international student is staying on a student visa after the completion of their degree. Because if you do not get a job in 2-3 months, you are deported back to your homeland. Meanwhile, Germany allows you to stay in the country and extend your visa for another 18 months so that you can easily find a suitable job.

LEARN A NEW LANGUAGE

Starting from future employability to emotional joy, there are countless reasons why learning German is very beneficial to you. Germany is one of the most powerful economies in the world while the German language is the most spoken native language in the European continent. German companies are global leaders and have an extensive network of branches all around the world. Thus, by speaking the German language you're setting yourself in a position where they will come at you and will offer you a job. European countries are well-known for the impeccable quality of education they provide. Germany is in the heart of Europe and is very well connected with other European countries. And hence, it provides you the freedom to explore multiple neighboring countries, without exhausting all your savings.

BEST SUMMER PROGRAM FOR HIGH SCHOOL ONLINE

Online Pre-College Summer Programs on Engineering

- Johns Hopkins Biomedical Engineering Innovation
- Syracuse University Summer College
- Brown
- Yale
- Tufts
- UCLA
- Harvard Pre-College and Secondary Programs
- Wake Forest PreCollege Programs
- Summer STEM Institute
- NASA Learning at Home
- Jerome Fisher Program in Management & Technology
- edX Engineering
- Summer Discovery
- Camp Euclid
- Future Engineers
- MIT Online Science, Technology, and Engineering Community (MOSTEC)
- Stony Brook University – Garcia Center for Polymers at Engineered Interfaces
- Stony Brook – Simons Summer Research Program
- MIT Research Summer Institute
- Hampshire College Summer Studies in Mathematics
- The Ross Mathematics Program
- Program in Mathematics for Young Scientists (PROMYS)
- Carnegie Mellon University SAMS Program
- Stanford Mathematics Camp
- Bucknell Engineering Camp

Best Online Summer Programs on Business & Entrepreneurship

- Syracuse University Summer College
- Purdue
- Temple University Summer Pre College Program – Sports Management
- University of Massachusetts Amherst – Entrepreneurship
- Quarter Zero – Entrepreneurship
- Georgetown
- Washington University
- Emory University
- Oxford Scholastica Academy
- University of Notre Dame Summer Scholars
- USC Summer Programs
- Columbia University Summer High School Programs
- Boston University High School Honors Programs
- Wake Forest PreCollege Programs
- Summer Discovery
- Cornell Summer Programs
- Kelley School of Business – Young Women's Institute
- LaunchX
- Bentley WallStreet 10

Best Online Summer Programs on Computer Science

- Syracuse University Summer College
- Brown
- Purdue
- Georgetown
- Emory University
- Tufts
- iD Tech Online Coding Camp
- UCLA
- Stanford AI Scholars Live Online
- Harvard Pre-College and Secondary Programs
- Columbia University Summer High School Programs
- Boston University High School Honors Programs
- Wake Forest PreCollege Programs
- Summer STEM Institute
- New York Academy of Science
- AI, Logic, Data Science and Programming at Stanford
- Summer Discovery
- Digital Media Academy

Best Online Summer Programs on PRE-MED for High Schoolers

- Pharmacy Summer Institute for High School and College Students
- Georgetown Summer Medical Academy
- Syracuse University Summer College
- Cornell
- Purdue
- Georgetown
- Tufts
- USC Summer Programs
- Columbia University Summer High School Programs
- Wake Forest PreCollege Programs
- University of Vermont Online Summer Academy
- Austin Community College
- Summer Discovery
- Brandeis Pre-College Programs: Global Health and Social Justice
- National Institute of Health Summer Institute Program
- Stanford Institutes of Medicine Summer Research Program

Top Online Summer Programs on Psychology for High School Students

- Cornell
- Yale
- Purdue
- Georgetown
- Washington University
- Tufts
- Austin Community College
- University of Notre Dame Summer Scholars
- Harvard Pre-College and Secondary Programs
- Columbia University Summer High School Programs
- Michigan Math and Science Scholars
- Wake Forest PreCollege Programs
- Summer Discovery

Online Pre-College Summer Programs on Creative Writing

- Syracuse University Summer College
- The Iowa Young Writers' Studio
- Brown
- Purdue
- Emory University
- USC Summer Programs
- Columbia University Summer High School Programs
- Boston University High School Honors Programs
- Sewanee
- Young Arts Creative Writing Competition
- Scholastic Art & Writing Contests
- Catapult
- Polyphony Lit
- New York Times Summer Academy
- Medill-Northwestern Journalism Institute

Top Online Summer Programs on Liberal Arts for High School Students

- Purdue
- Emory University
- USC Summer Programs
- Columbia University Summer High School Programs
- Boston University High School Honors Programs
- Cornell
- Academy of Art Pre College Experience
- Art of Problem Solving
- 21st Century Leadership Institute
- Cleveland Institute of Music Preparatory Division
- The Lukeion Project (Classics)
- Foundation for Teaching Economics
- Princeton Summer Journalism Program

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