

CAREERS 360

PREPARATION Series

Courses after 12th Physics

Top Courses, Colleges &
Career Opportunities



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Completing Class 12th with a Science background, particularly with PCM (Physics, Chemistry, Mathematics) or PCB (Physics, Chemistry, Biology), opens up a wide range of career opportunities. Students can explore numerous course options such as [Engineering](#), [B. Pharmacy](#), BPT (Bachelor of Physiotherapy), or even pursue a career as a [Physicist](#), among others. These Physics-based courses after 12th are highly popular among students due to their strong career prospects.

In today's evolving job market, many new high-salary courses have emerged, offering students greater opportunities for growth and success. These courses after 12th Physics not only offer promising salary packages but also expand the scope for long-term career development. It is essential for students to thoroughly research the scope and future relevance of any course before making a decision.

Aspirants are encouraged to choose career options that align with their interests and long-term goals. Read the article below to explore various career options after 12th [Physics](#), including average course fees and expected salary packages.



How to Choose High Salary Courses after 12th Physics?

- ❖ There are many courses after 12th Physics. Be sure about the field you want to pursue a career in Physics after 12th. Dig out the internet and research various courses of your interest thoroughly.
- ❖ Check the related university and research its National or International ranking. Also, check the fee structure and placement of the respective university.
- ❖ Students are advised to also check the syllabus and course structure of the university to get familiar with it and decide whether they should choose the courses or not.
- ❖ Research about the selected course's salary structure and scope to make sure about the chances of succeeding in the same.
- ❖ Candidates should take the guidance of any friend or family who is in that field already to get reassurance of its future relevance

Top Courses after 12th Physics:

The top high-salary Courses after 12th Physics with their eligibility, expected salary and top careers are mentioned below.

Courses	Eligibility	Top Careers	Expected Salary*
B.Tech/Engineering (4 years)	10+2 with Science (PCM) with min. 60% marks	<ul style="list-style-type: none"> ● Web Developer ● Data Analyst ● Software Engineer ● Digital Marketer 	2.5 lakh- 3lakh PA
Information Technology (IT) (B.s years- 3 years B. Tech - 4 years)	10+2 with Science (PCM) with min. 50% marks	<ul style="list-style-type: none"> ● Application Programmer ● Network Administrator ● System Architect ● Multimedia Designer 	15,000 - 30,000 per month initially
Astronomy (B.Sc - 3 years B. Tech - 4 years)	10+2 with PCM	<ul style="list-style-type: none"> ● Aerospace Engineer ● Computer Systems Analyst ● Data Analyst ● Chemical Engineer 	8 lakh- 10 lakh PA
Aviation (2-3 years)	10+2 with Science (Min. 50% in Physics and Maths)	<ul style="list-style-type: none"> ● Commercial Pilot ● Chief Pilot ● Co-Pilot 	1.75 lakh - 3.5 lakh PA

Hardware (B.Sc - 3 years B. Tech 4 years)	10+2 with Science (PCB) min. 50% marks	<ul style="list-style-type: none"> • Network Engineer • Network Designer • Technical Support Executive • Hardware Developer 	1.5 lakh - 2 lakh PA
Merchant Navy (4 years)	10+2 with Science with min. 60% marks	<ul style="list-style-type: none"> • Electrical Officer • Radio Officer • Chief Engineering Officer 	1.8 lakh - 10 lakh PA
BPT (Bachelor of Physiotherapy) (4 years)	10+2 with Science with min. 50% marks. PCB +English as compulsory subjects in 12th.	<ul style="list-style-type: none"> • Research Assistant • Chief Physiotherapist • Physiotherapist • Training Instructor • Sports Physio Rehabilitator 	15,000 - 30,000 per month
Environmental Science (3 years)	10+2 with Science (PCB) with min. 50% marks	<ul style="list-style-type: none"> • Conservation Hydrologist • Environment Photographer • Director of Waste Management 	3 lakh- 5 lakh PA
B.Arch (5 years)	10+2 with Science (PCM) with min. 50% marks	<ul style="list-style-type: none"> • Interior Designer • Architecture Designer • Architecture Engineer • Architecture Draftsman 	2.5 lakh - 4.5 lakh PA
B.Sc (Bachelor in Science) (3 years)	10+2 with Science stream	<ul style="list-style-type: none"> • Research Analyst • Lecturer • Enumerator • Technical Writer/Editor 	2.5 lakh - 3.5 lakh PA

***Salaries are just for an estimate; they can vary on the basis of various factors.**

Note: Both PCM and PCB stream candidates can apply for the Physics-related courses. However, in some courses, Maths is also mandatory. Check [Courses after 12th PCM](#)

An Overview of Engineering

Bachelor of Technology (B.Tech) and Engineering is one of the most popular courses after 12th Physics among science stream aspirants. These Physics-related courses after 12th open up numerous high-demand career opportunities in the field of technology and innovation. The engineering stream offers various specialised branches, which will be discussed in detail below. Students are encouraged to choose a branch based on their interests, strengths, and long-term career goals. Admission to B.Tech/Engineering courses is primarily through competitive exams such as IIT-JEE, UPSEE, BITSAT, and others.

Below are some of the most popular branches of B.Tech/Engineering:

- ❖ [Automobile Engineering](#)
- ❖ [Civil Engineering](#)
- ❖ [Computer Science Engineering](#)
- ❖ [Electrical Engineering](#)
- ❖ [Mechanical Engineering](#)

Average Fees: Ranging from INR 50,000 to 2 lakhs yearly

Top Engineering Colleges in India

The best colleges for Engineering in India are mentioned below:

1. IITs, GFITs and IIITs- Madras, Bombay, Kharagpur, Delhi, Kanpur, Roorkee, Guwahati
2. [Anna University](#)
3. [Jadavpur University](#)
4. [Malaviya National Institute of Technology, Jaipur](#)
5. [Institute of Chemical Technology \(ICT\)](#)

Is Information Technology (IT) a Good Career Choice?

Another promising field that aspirants can pursue after 12th Physics is Information Technology (IT). This is a specialised branch of engineering where job profiles are focused on computers and telecommunications, involving the control, storage, retrieval, and distribution of information. The IT sector encompasses both software and hardware domains, offering a wide range of career opportunities.

Students can pursue IT-related courses through competitive exams such as IIT-JEE, GATE, and others. Some of the top colleges for Physics-based courses after 12th in the field of Information Technology are listed below:

Average Fees: 30,000 to 2 lakhs yearly

Top Colleges for Information Technology in India

Some of the top colleges for Information Technology are mentioned below:

1. [Indian Institute of Technology, Kharagpur](#)
2. [Motilal Nehru National Institute of Technology, Allahabad](#)
3. [Delhi Technological University, Delhi](#)
4. [Academy of Technology, Hooghly](#)
5. [Army Institute of Technology, Pune](#)

Astronomy Courses in India after 12th

Astronomy involves the study of the motion, properties, forms, and dimensions of celestial bodies and outer space. This career path requires a strong foundation in Physics, making it an ideal option for students after 12th with a Science background. Aspirants can pursue majors in Physics-related disciplines such as **Astronomy**, **Astrophysics**, **Meteorology**, or **Atmospheric Science** to build careers as Aerospace Engineers, Data Analysts, and more.

To pursue these courses after 12th Physics, students can appear for competitive exams such as [JEE Main/Advanced](#), ISAT, and others. While only a few colleges in India offer bachelor's degrees specifically in Astronomy and related fields, most institutions focus on postgraduate programs. However, several reputed international universities offer a wide range of undergraduate courses in this discipline.

Therefore, students are strongly advised to research thoroughly before applying to any college in India or abroad. Some of the top institutions offering these courses are mentioned below:

Average Fees: INR 2 lakh - 5 lakh PA

Top Colleges for Astronomy Courses

Find the list of top Astronomy Colleges in India below:

1. Indian Institute of Technology (Bombay, Bangalore, Madras)
2. [Tata Institute of Fundamental Research \(TIFR\), Mumbai](#)
3. [Indian Institute of Space Science & Technology \(IIST\), Trivandrum](#)
4. Indian Centre for Space Physics, Kolkata

What are the Courses in Aviation after 12th?

Aviation refers to the operation and flying of aircraft and is one of the most exciting and high-paying career fields. There are several high-salary courses after 12th Physics available in this domain. Graduates from this field can pursue various job roles in airlines or airports, depending on their specialisation and qualifications.

Aspirants can choose to become a Commercial Pilot, Co-Pilot, or take up other aviation-related roles after completing the required course and obtaining the necessary license. Some of the top Aviation institutes offering Physics-based courses after 12th are listed below:

Average Fees: 21,000 - 70,000 yearly (can vary)

Top Institutes for Aviation Courses:

The list of the top 5 institutions for Aviation courses is mentioned below:

1. [Jamia Millia Islamia University, New Delhi](#)
2. University of Mumbai, Mumbai
3. [Banasthali Vidyapith, Jaipur](#)
4. [NIMS University, Jaipur](#)
5. [Hindustan First Grade College, Mysore](#)

Career options in Hardware and Networking

This field focuses on the functioning and operation of computers and electronic gadgets. A thorough understanding of how hardware components work is essential to succeed in this area. After completing relevant courses after 12th Physics, aspirants can pursue careers as Network Engineers, Hardware Consultants, and more.

Students are advised to explore the top colleges offering Hardware-related courses after Class 12th Physics to gather essential information and make informed decisions based on their interests and career goals.

Average Fees: 50,000 - 1 lakh yearly

Top Colleges for Hardware

Some of the top Hardware Colleges in India are mentioned below:

1. Indian Institute of Hardware Technology, Bangalore
2. Jetking, Mumbai
3. Rooman Technologies, Bangalore
4. Institute of Computer Technology and Engineering, Lucknow

Is the Merchant Navy a Permanent Job?

This field involves international trade, which means carrying cargo all over the world. The merchant ships recruit a huge number of workers to carry and supply goods to several countries. The Merchant Navy offers innumerable positions and posts to give jobs to deserving aspirants. This is a very good career option after class 12th Physics. It is a very decent and respected field that provides a decent income as well. Some of the top Merchant Navy institutes are discussed below.

Average Fees: INR 2,50,000- 4,50,000 yearly

Top Institutes for Merchant Navy Courses

Go through the best institutions for pursuing Merchant Navy courses below:

1. TS ANGLO
2. Chanakya
3. MANET
4. Tolani Maritime Institute
5. AMET

Scope of Physiotherapy

Physiotherapy is a 4-year undergraduate course that can be pursued after 12th PCB. This course includes a compulsory 6 months of clinical internship, which involves the science of physical movement aimed at relieving diseases and disabilities. BPT puts forth great career opportunities. This is one of the best courses after 12th Physics. Aspirants can become chief physiotherapists, research assistants, etc, after completion of this course.

Average Fees: INR 1 lakh - 5 lakh

Top Physiotherapy Colleges in India

The top 5 Physiotherapy colleges in India are mentioned below:

1. [Post Graduate Institute of Medical Education and Research](#)
2. Nizam's Institute of Medical Sciences
3. [JSS College of Physiotherapy](#)
4. [Apollo Physiotherapy College](#)
5. [Indian Institute of Health Education & Research](#)

What Jobs Can One Get With An Environmental Science Degree?

Environmental Science is a great field which includes the study of elements of physics, biology, social sciences and chemistry. This field offers several courses after 12th Physics, such as conservation hydrologist, environment photographer, environment journalist, etc. Some of the top colleges to pursue Environmental Science-related courses are mentioned below:

Average Fees: INR 20,000 - 3 lakh

Top Colleges for Environmental Science :

The top colleges for environmental science are mentioned below:

1. [Dev Sanskriti Vishwavidyalaya, Haridwar](#)
2. [Maharaja's College, Ernakulam](#)
3. [Fergusson College, Pune](#)
4. [Patna Science College, Patna](#)
5. [Mount Carmel College, Bangalore](#)

Is Architecture a Good Career for the Future?

Architecture involves the study of the design, process, and construction of buildings. It assures decent growth as a career in the future. It is a work of mathematical calculations which puts forth many career opportunities, such as an interior designer. There are many diploma courses after 12th Physics which can be taken up in this field. Aspirants can also appear for several government exams in order to be selected for government-related designations in this discipline. Some of the top colleges for B.Arch are given below.

Average Fees: INR 1.5 to 5 lakhs

Top Colleges for Architecture

India offers many good colleges for pursuing B. Arch or related diploma courses. Find below some of the top colleges for Architecture in India:

1. Indian Institute Of Technology, Kharagpur
2. [School Of Planning And Architecture, Delhi](#)
3. [Sir J. J. College Of Architecture, Mumbai](#)
4. [Jadavpur University, Kolkata](#)
5. [Birla Institute Of Technology, Mesra](#)

What to do after B.Sc.?

There are several opportunities after pursuing a Bachelor of Science. Aspirants can do a major in their interest-related subjects. In today's era, B.Sc. has earned great popularity and proved to be one of the booming courses after class 12th Physics, which offers high-salary job opportunities such as lecturers, [scientists](#), analysts, etc. A few of the top institutions for a Bachelor of Science are listed below:

Average Fees: INR 25,000 - 30,000 yearly.

Top Colleges for the B.Sc Course

Some of the best colleges for B.Sc in India are discussed below:

1. [Miranda House](#)
2. [Hansraj College](#)
3. [Loyola College, Chennai](#)
4. [Christ University, Bangalore](#)
5. [St. Stephen's College, New Delhi](#)

