



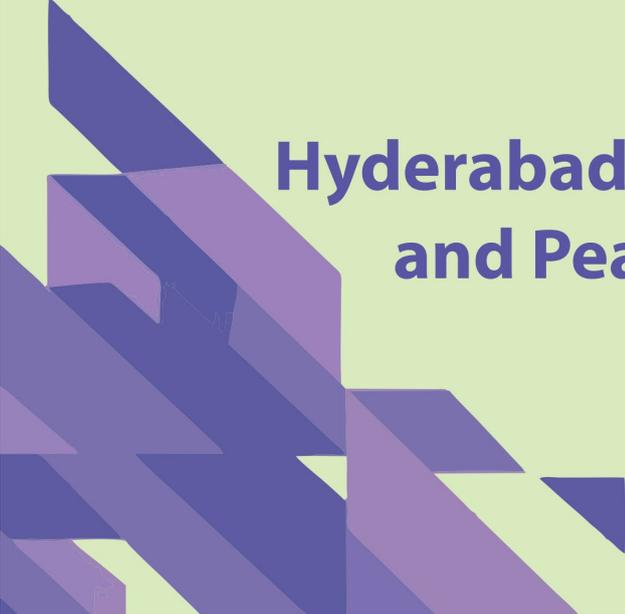
COVA
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RESOURCE BOOK

CAREER OPTIONS
After Grade 12

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**Hyderabad Development
and Peace Project**



Part – 1 Courses

Chapter No.	Title	Page No.
1.	Career Options After 12 th 3	
2.	List of Courses after 12th Science, Arts & Commerce - Career Options & Colleges	5
3.	Best Courses after 12th for Commerce Students	7
4.	Top Diploma Courses after 12th Commerce: Best Options for Commerce Students	8
5.	How a BBA in AI is shaping the Future of Business	9
6.	Computer Courses After 12th: Course Details, Fees, Eligibility	10
7.	Career Paths after BCA (Bachelor of Computer Applications) Lateral Entry	12
8.	Hotel Management Courses after 12th in India – Courses, Fee Structures, and More	13
9.	Best Hotel Management Colleges in India, Top Institutes After 12th	14
10.	Top Medical Courses after 12th in India – Eligibility, Fees, and Admission	16
11.	Top Travel and Tourism Courses after 12th: Duration, Fees & Future Opportunities	18
12.	MBA in International Business, Fintech & Healthcare: Choosing the Right Specialization for You	19
13.	List of Courses and Career Options after 12th Science	21
14.	Top Career Options after 12th Science (PCM) – Best Opportunities & Paths	22
15.	Which Engineering Discipline is best for you? A Guide to Future Careers	23
16.	Top Engineering Fields after 12th in India – Explore Your Future in Technology and Innovation	24
17.	Top Civil Engineering Courses after 12th: Diploma & Degree Options for Aspiring Engineers	26
18.	Is Diploma in Mechanical Engineering (ME) the Right Course for You? 27	
19.	Career Paths after B.Tech. Chemical Engineering [Lateral Entry]	28
20.	Top Architecture Colleges in India: Courses Ranking, Fees & Admission	30
21.	Top Aerospace & Aeronautical Engineering Colleges in India 2026	31
22.	Best Biology Courses after 12th – Entrance Exams & Best Colleges in India	32
23.	High Salary Courses after 12th Science PCB (Biology)	34
24.	Top Biotechnology Courses after 12th: A Gateway to Innovative Careers	35
25.	Career Paths after B.Sc. Information Technology [Lateral Entry]	36
26.	High Salary Courses After 12th Science PCMB (Biology & Math's)	38
27.	Top Agriculture Courses after 12th: Diploma & Degree Options for a Bright Future	39
28.	How Artificial Intelligence is Transforming the Healthcare Industry 40	
29.	Top Fashion Designing Courses after 12th: Duration, Colleges, and Salary Prospects	42
30.	List of Top Courses after 12th for Arts Students	43
31.	Top Career Options after 12th Science: What Course to Do After 12th Science 46	
32.	How Do I Choose a Career After My 12th Grade Results?	47

PART - 2 Jobs

33.	Jobs After 12th (All Streams): Government and Private jobs	48
34.	Government Jobs After 12th	52
35.	Government Exams After 12th	54
36.	How to Become a Pilot in India after 12th: Step-by-Step, Eligibility, Courses, Fees, Entrance, Jobs, Salary, Colleges & Exams	58
37.	Bank Exams after 12th - Check Eligibility & Exam Pattern	59
38.	Top Bank Jobs after 12th: Check Eligibility, Skill Required & Salary	60
39.	Best Bank Jobs after 12th: Eligibility, Required Qualifications, and Exams You Must Know 61	
40.	Railway Jobs for 12th Pass, High-Paying Career Paths & Exam Details	64
41.	How to Join Defence Forces After 12th - A Complete Guide	67
42.	Top Defence Exam after 12th, Best Career Option After 12 th	68
43.	Indian Air Force	68
44.	How to Become a Police Officer after 12th: Career, Courses, Eligibility, Top Colleges, Skills	71
45.	Indian Postal Services	72
46.	Information Technology: Jobs After 12th	73
47.	Government Jobs for 12th For Arts Students	75
48.	Highest Paying Jobs in India	77
49.	12th Pass Govt Jobs in Telangana: Vacancies in Police, Railways & Other Departments	78
50.	12th Pass Jobs in Hyderabad - Vacancies, Salary, Selection Process	81

Preface

Career Options After 12th

Dear Students,

Standing at the crossroads after Class 12 can feel exciting, confusing, and sometimes even overwhelming. One question keeps coming back to your mind — “*What should I do next?*”

This book, Career Options After 12th, is written especially for you — to guide you, inspire you, and help you make confident decisions about your future.

Choosing a career is not just about selecting a course or a college. It is about discovering who you are, what you enjoy, what you are good at, and how you want to contribute to the world. There is no “one perfect career” for everyone. The right career is the one that matches your interests, strengths, values, and goals.

After 12th, the opportunities are vast and diverse. Whether you are from Science, Commerce, or Arts, there are multiple paths available — professional degrees, diploma programs, government exams, defence services, skill-based courses, entrepreneurship, and much more. The world today values skills, creativity, discipline, and continuous learning more than ever before.

Remember:

- Your marks do not define your entire future.
- One decision does not decide your whole life.
- It is okay to feel unsure — clarity comes with exploration.
- Success is built step by step, not overnight.

This book will help you:

- Understand different career options clearly
- Learn eligibility and pathways in simple language
- Explore both traditional and modern career choices
- Make practical and informed decisions

But most importantly, it will encourage you to believe in yourself.

Every successful person once stood exactly where you are today — uncertain, hopeful, and full of potential. The difference between those who succeed and those who hesitate is not luck — it is action. Take time to think. Ask questions. Research well. And once you decide, work hard with focus and dedication.

Your journey after 12th is not just about building a career — it is about building your life.

Dream big. Start small. Stay consistent.

Your future is waiting.

With best wishes for your bright and successful career.

Syed Jaffer Hussain Quadri
Educationist and Gen- Z Mentor

CHAPTER – 1

CAREER OPTIONS AFTER 12TH

[[https://idreamcareer.com/blog/career-options-after-12th/#\[idreamcareer\]](https://idreamcareer.com/blog/career-options-after-12th/#[idreamcareer])]

COURSES

After 12th, students from any stream can choose engineering, medicine, management, or finance. Good guidance helps in choosing correctly.

Problem: Uncertainty in Career Choices

Many options and changing job trends make choosing a course difficult. Students should match interests with job demand.

Agitate: The Impact of a Wrong Choice

A wrong career choice can cause unhappiness and fewer job options. Changing majors wastes time and money.

Common Mistakes to Avoid

1. **Following Trends** – Do not choose a course just because it is popular or friends choose it.
2. **Ignoring Course Content** – Always check the syllabus before selecting a course.
3. **Overlooking Teaching Methods** – Choose a course that matches your learning style.
4. **Neglecting Faculty Quality** – Good teachers improve learning quality.
5. **Disregarding Career Prospects** – Check future job and study opportunities.
6. **Underestimating Workload** – Know the course workload to avoid stress.

Solution: Making an Informed Choice

Do proper research to choose a course with good future scope.

Factors to Consider When Choosing a High-Salary Course

- **Interest and Motivation** – Choose what you truly like.
- **Job Prospects** – Check career demand in the market.
- **Earning Potential** – Consider future salary.
- **Course Duration and Cost** – Check time and fees required.
- **Career Growth** – See if the field offers promotion and specialization.
- **College and Location** – A good college improves job chances.

Emerging Trends in High-Salary Courses

- **Technology Courses** – AI, machine learning, cybersecurity, and cloud computing offer high pay.
- **Green Careers** – Courses in sustainability and renewable energy are growing.
- **Healthcare Fields** – Biotechnology, genetic engineering, and public health are in demand.
- **Online Business** – Digital marketing, e-commerce, and business management are popular.
- **Flexible Learning** – Modular courses help students specialize easily.

CHAPTER – 2

List of Courses after 12th Science, Arts & Commerce - Career Options & Colleges

[<https://www.shiksha.com/courses-after-12th>]

Courses after Class 12th: After Class 12, students have many course options, but low marks reduce choices. Entrance exams help in getting admission, so choosing a career carefully is important.

Should I choose a specialized field right now or later?

- **Should I choose a popular course or an emerging field of study?**
- **What exam(s) should I take to enrol in a certain course?**

Courses after Class 12th for science students

For those who have studied **Science with Math's (PCM/PCMB)** in Class 11th and 12th, the most popular courses are

• BTech/BE	B. Arch
• Integrated MTech	BSc
• BCA	

For PCB/PCMB students, the most popular courses are in medicine, biotechnology, nursing, pharmacy, and allied health sciences.

• MBBS	Nursing
• BDS	Paramedical
• B. Pharma	

For course highlights, college offerings, rankings, reviews, top specializations, entrance exam details, and FAQs, click the links in the table below.

Popular courses after 12 th Science	
1. BE/BTech	5. MBBS
2. Bachelor of Architecture (BArch)	6. BSc Science (Non-Math subjects)
3. BSc (Science)	7. BSc Post Basic Nursing
4. BCA (IT & Software)	8. Bachelor of Pharmacy (B. Pharma)
	9. BSc (IT & Software)

Science students are also eligible to pursue courses beyond the Science stream, including courses in:

• Law	• Graphic Designing
• Management	• Travel & Tourism
• Mass Communication	• Hospitality
• Animation	• Fashion Designing

To pursue most of the courses after class XII, a candidate must appear in common entrance tests, conducted either by government bodies or private institutes.

Top entrance exams for science courses after 12th

Given below is the table indicating top entrance exams after class 12th for science courses:

Stream Specific Entrance Exams	Top Exams
Engineering Entrance Exams	JEE Main, JEE Advanced
Medical Entrance Exams	NEET UG, NEET PG, AIIMS MBBS
Science Entrance Exams	NEST, IIT JAM, JEST

Some competitive exams after Class 12 can lead to government jobs, though many require a graduation degree to be eligible.

Courses after Class 12th for Commerce students

For those who have studied **Commerce (with Math's/without Math's)** in Class 11th and 12th, the most popular courses at UG level are B. Com, B. Com(H), Eco(H), BBA/BMS, Integrated MBA, CFP, CA and CS

Popular courses after 12 th Commerce	
1. B.Com (Hons)	5. BBA/BMS
2. B.Com (General)	6. BCA (IT and Software)
3. B.Com in Accounting and Commerce	7. Chartered Accountancy (CA)
4. BBA LLB	8. Company Secretary (CS)

- Commerce students can prepare for banking, defence, and civil service exams.
- Maths in Class 11 and 12 helps in banking, finance, accounts, and taxation courses.
- Other options include BStat, BJMC, BBA LLB, BCA, BHM.
- Students can also choose travel & tourism, fashion designing, and advertising courses.

Top entrance exams for Commerce courses after 12th

Given below is the table indicating top entrance exams after class 12th for Commerce courses:

Stream Specific Exams	Top Accounting Exams
Accounting & Commerce entrance exams	ICWAI, ICSI, ICAI

Courses after Class 12th for Arts students

Students with Arts background have a wide range of areas of studies to choose from. For those who study Arts in Class 11 and 12, the most popular courses at UG level are BA, BA (H), BA LLB, BFA, BJMC, BBA/BMS, B Lib, BSW.

Popular courses after 12 th Arts	
1. BA in Humanities & Social Sciences	10. BHM in Hospitality & Travel
2. BA in Arts (Fine/Visual/Performing)	11. Bachelor of Journalism (BJ)
3. Bachelor of Fine Arts (BFA)	12. Bachelor of Mass Media (BMM)
4. BDes in Animation	13. BA in Hospitality & Travel
5. BA LLB	14. BA in Animation
6. BDes in Design	15. Diploma in Education (DEd)
7. BSc in Hospitality & Travel	16. B.Com in Accounting and Commerce
8. BSc in Design	17. BBA LLB
9. Bachelor of Journalism & Mass Communication (BJMC)	18. BCA (IT and Software)

- Arts students have many course options in languages, design, media, teaching, hospitality, social sciences, and creative fields.
- Most humanities colleges give admission without entrance exams.
- Some law, mass communication, design, and hospitality institutes require entrance exam scores.

List of entrance exams for Arts courses after 12th

Given below is the table indicating top entrance exams after 12th for Arts courses:

Stream Specific Exams	Top Exams After Class 12 th
Law entrance exams	CLAT, AILET, LSAT
Design entrance exams	NID Entrance Exam, NIFT Entrance Exam
Hospitality entrance exams	NCHMCT JEE
Mass COMM entrance exams	IIMC Entrance Exam, JMI Entrance Exam, XIC- OET
Humanities entrance exams	JNUEE, DUET, PUBDET

FAQs on Courses after Class 12th

Q: What are the courses available after Class 12th with science?

A: **Science after 12th:** Students can choose engineering, medical, science, computer, commerce, law, management, media, and design courses.

Q: What are the courses available after Class 12th with Commerce?

A: **Commerce after 12th:** Students can choose commerce, management, IT, economics, accounting, design, animation, and arts

Q: How many marks are required to appear for the JEE exam after completing Class 12th with science?

A: **Marks for JEE:** Minimum 65% marks or equal CGPA in Class 12 science is required.

Q: What are the professional courses after Class 12th?

A: **Professional courses after 12th:** Options include accounting, IT, media, design, healthcare, aviation, and beauty & wellness.

Q: What are the minimum marks required to get into college after Class 12th?

A: **Minimum marks for college:** Most colleges need 50% marks (45% for reserved category). Some need only passing marks.

Q: Apart from Engineering and Medicine, which are the other professional courses I can opt for after completing Class 12 in science?

A: **Other professional courses after Science:** Students can choose microbiology, biotechnology, pharmacy, nursing, agriculture, and oceanography.

Q: What are some of the professional courses one can opt for after completing Class 12 in the Commerce stream?

A: **Professional courses after Commerce:** Options include chartered accountancy, cost accountancy, company secretary, and business administration.

Q: What are some of the top professional courses for students who have pursued Arts in Class 12?

A: **Top professional courses after Arts:** Journalism, mass communication, law, hospitality, design, and fine arts.

Q: What are the popular subjects in which Arts students prefer to study at their graduation?

A: **Popular Arts graduation subjects:** English, history, philosophy, and political science.

Q: What are some of the popular Commerce specialisations that students pursuing during their B. Com?

A: **Popular Commerce specialisations in B. Com:** 1. Accounting & Finance, 2. Banking & Insurance, 3. Taxation, 4. Computer Applications, 5. Marketing, 6. Human Resource Management (HRM), 7. International Business, 8. E-Commerce

Q: What are some of the pure Science subjects that students opt for during BSc?

A: **Popular pure science subjects in BSc:** Physics, chemistry, mathematics, biology, botany, and zoology.

CHAPTER – 3

Best Courses after 12th for Commerce Students

[<https://www.shiksha.com/courses-after-12th/commerce>]

Commerce is a popular Class 12 stream in India. Commerce students can take commerce or arts courses, with B.Com being the most popular, covering accountancy, business studies, economics, and optional mathematics.

Thus, the Commerce stream can be categorised into two groups:

Staying updated about the latest educational events is just a click away

1. Commerce with Mathematics
2. Commerce without Mathematics

Commerce students with Maths can choose B. Com Honours, while those without Maths can take B. Com General; both are UGC-recognized courses.

Confused about which Course to choose in 12th?

Commerce students, with or without Mathematics, have many course options after Class 12.

Top Courses after 12th Commerce with Mathematics

B. Com (Honours)	B. Com Banking & Finance
B. Com Accounting and Taxation	B. Com in Accounting
B. Com Statistics	B. Com Applied Economics
B. Com in Management Accounting & International Finance	

B. Com (Honours): A popular course for Commerce with Maths, offered by top universities.

- **B. Com Accounting and Taxation:** Good for banking and insurance careers; teaches tax system and financial accounting.
- **B. Com Statistics:** Leads to careers in research, data analysis, civil services, and government; includes economics and statistics.
- **B. Com Management Accounting & International Finance:** Best for international business studies; includes global business and US CMA knowledge.
- **B. Com Banking & Finance:** Covers banking, insurance, and risk; careers include auditor, analyst, and stockbroker.
- **B. Com in Accounting:** Good for banking, CA, or CS careers; includes finance and economics.
- **B. Com Applied Economics:** Teaches micro, macro, and public economics to solve economic problems.

Top Courses after 12th Commerce without Mathematics

B. Com (General)	B. Com Marketing
B. Com Business Administration	B. Com Tourism & Travel Management

- **B. Com (General):** A 3-year degree open to all streams; popular for Commerce without Maths and available in distance mode.
- **B. Com Business Administration:** Good for business and management careers; gives knowledge of different business areas.
- **B. Com Marketing:** Teaches marketing skills; offers many career opportunities.
- **B. Com Tourism & Travel Management:** Teaches tourism industry, travel rules, laws, and management skills.

Which course to select after Class 12 Commerce?

The main question for Commerce students is which course to choose after Class 12.

- Students should choose the right academic or vocational course with proper understanding.

List of Top 6 Courses after 12th Commerce

Cost and Management Accountancy (CMA)	Chartered Accountancy (CA)
BCA (IT and Software)	BBA/BMS
BBA LLB	Company Secretary (CS)

- **CMA:** A professional course by ICAI in cost and management accounting with three levels; takes about 3–4 years and needs practical training.
- **BCA:** A 3-year IT course teaching programming and software skills; needs 12th with Maths or English and 45–55% marks.
- **BBA LLB:** Combines business and law; needs 50% in 12th and entrance exams like CLAT, LSAT, ACLAT.
- **CA:** A difficult professional course after 12th; allows specialization in auditing, taxation, or finance.
- **BBA/BMS:** A management course and base for MBA; needs 50% in 12th.
- **Company Secretary (CS):** A course by ICSI focusing on company law, taxation, and corporate matters.
- **Other Options:** Commerce students can also choose courses open to Arts students after 12th.

BA in Humanities & Social Sciences	BHM in Hospitality & Travel
BA in Arts (Fine/Visual/Performing)	Bachelor of Journalism (BJ)
BA LLB	Bachelor of Mass Media (BMM)
BSc in Design	BA in Animation
Diploma in Education (D. Ed)	

- **BA in Humanities & Social Sciences:** An undergraduate course in social sciences and arts; open to all streams.
- **BA in Arts (Fine/Visual/Performing):** A degree in fine and performing arts; open to all streams.
- **Eligibility for UG Courses:** Students must pass 10+2 from a recognised board.
- **BA LLB (5-Year):** A 5-year law course after 12th in any stream with minimum marks.
- **BSc in Design:** A design degree open to Arts, Science, and Commerce students.
- **BHM in Hospitality & Travel:** A hospitality course open to all streams after 12th.
- **Bachelor of Journalism (BJ):** A 3-year course in mass communication and media.
- **Bachelor of Mass Media (BMM):** A 3-year media and communication course after 12th.
- **BA in Animation:** An undergraduate course to become an animator; open to all streams.
- **Diploma in Education (D.Ed.):** A course for teaching at nursery or kindergarten level.

Emerging Good Courses after 12th Commerce

- **Data Science & Analytics:** Focuses on big data analysis.
- **Financial Planning & Investment Banking:** Best for students interested in financial markets.

- **E-Commerce & Entrepreneurship:** Teaches online business and startups.
- **Event Management:** Focuses on planning and managing events.
- **Foreign Trade & International Business:** Teaches global trade and international business policies.

New Age Options for Commerce Students after 12th:

Risk Management Analyst	Budget Analyst
Actuarial Science	CMA
Auditing	Tax Consulting
Corporate Strategist	Wealth Management
Private Equity & Venture Capital	Certified Financial Analyst
Stockbroking	Investment analyst

New-age careers let you explore your skills and interests, but decisions shouldn't be rushed. Expert career advice can help you choose wisely.

FAQs on Courses after 12th Commerce

Q: Which is the best Commerce course after Class 12th?

A: **Best Commerce course:** Popular options are CA, CS, ICWAI, B. Com, Economics/Statistics/Taxation/Banking & Finance Honours, BBA, and BMS.

Q: Can I go for BCA or BBA after Class 12th with Commerce?

A: **BCA or BBA after Commerce:** Commerce students can choose BCA (best with Maths) or BBA (good without Maths).

Q: Is doing CA/CS better than doing B. Com after completing Class 12th with Commerce?

A: **CA/CS vs B. Com:** CA/CS is professional; B. Com is academic. Choose CA/CS if you want that career.

Q: How can I pursue CA or CS after Class 12th with Commerce?

A: **How to do CA/CS:** Register with ICAI or ICSI, complete levels, and pass exams.

Q: I have a Science background in Class 12. Can I opt for Commerce courses in college?

A: **Science student choosing Commerce:** Science students can take commerce courses like B. Com or BBA LLB.

Q: Can I pursue Law after completing Class 12 in Commerce?

A: **Law after Commerce:** Commerce students can study law through BA LLB or BBA LLB.

CHAPTER – 4

Top Diploma Courses after 12th Commerce: Best Options for Commerce Students

[<https://www.lpu.in/blog/top-diploma-courses-after-12th-commerce-best-options-for-commerce-students/>]

Diploma courses after 12th commerce help students gain job-ready skills quickly through short, practical, and industry-focused programs.

List of Diploma Courses after 12th Commerce in India

Diploma courses for commerce students include fields like finance, management, taxation, banking, and marketing, with various options available after completing the 12th grade.

Course Name	Eligibility Criteria	Duration
Diploma in Banking and Finance	12th Pass in Commerce	1 Year
Diploma in Financial Accounting	12th Pass in Commerce	1 Year
Diploma in Business Management	12th Pass in Commerce	1 Year
Diploma in E-Commerce	12th Pass in Commerce	1 Year
Diploma in Retail Management	12th Pass in Commerce	1 Year
Diploma in Marketing Management	12th Pass in Commerce	1 Year
Diploma in Taxation	12th Pass in Commerce	1 Year
Diploma in International Business	12th Pass in Commerce	1 Year
Diploma in Human Resource Management	12th Pass in Commerce	1 Year
Diploma in Hotel Management	12th Pass in Any Stream	1-2 Years

These diploma courses in commerce provide students with job-ready skills and open doors to multiple career paths.

Top Institutes Offering Diploma Courses after 12th Commerce

Many reputed colleges and institutes offer diploma after 12th commerce, providing high-quality education and placement opportunities. Here are some of the best options:

Institute Name	Course Offered	Location
Lovely Professional University (LPU)	Diploma in Business Administration (DBA)	Punjab
Indian Institute of Banking & Finance	Diploma in Banking & Finance	Mumbai
National Institute of Retail Management	Diploma in Retail Management	Multiple Locations
Indira Gandhi National Open University (IGNOU)	DBPOFA: Diploma in Business Process Outsourcing – Finance and Accounting	Nationwide
Symbiosis Centre for Distance Learning	Diploma in Business Management, Human Resource Management	Pune

Career Opportunities After Diploma Courses in Commerce

Completing 1-year diploma courses after 12th commerce can lead to various career opportunities in different industries. Some of the potential job roles include:

- **Banking & Finance:** Bank Executive, Loan Officer, Financial Analyst
- **Accounting & Taxation:** Accountant, Tax Consultant, Auditor
- **Business & Management:** Business Development Executive, Marketing Executive
- **E-Commerce & Retail:** Digital Marketer, Retail Store Manager
- **International Business:** Export-Import Executive, Supply Chain Manager.

FAQs

1. What are the eligibility criteria for diploma courses after 12th commerce?

A. **Eligibility for diploma courses:** Most need 12th in Commerce, but some accept other streams.

2. What is the duration of diploma courses for commerce students?

A. **Duration of diploma courses:** Usually 6 months to 2 years; many are 1-year courses.

3. Which diploma course is best after 12th commerce?

A. **Best diploma course:** Depends on career goals; Banking & Finance, Business Management, and Accounting are popular.

4. What are the job prospects after completing a diploma for commerce students?

A. **Job prospects after diploma:** Jobs available in banking, finance, retail, marketing, and international business.

5. Can I pursue further studies after completing a diploma after 12th commerce?

A. **Further studies after diploma:** Students can continue with BBA, B. Com, or other certifications.

CHAPTER – 5

How a BBA in AI is shaping the Future of Business

[<https://www.lpu.in/blog/how-a-bba-in-ai-is-shaping-the-future-of-business/>]

Technology is transforming business and raising demand for tech-skilled professionals, and new BBA courses in AI, IT, and Business Analytics prepare students for these industries.

Understanding BBA in Artificial Intelligence

A BBA in Artificial Intelligence combines business studies with AI skills and trains students to apply AI in marketing, finance, and operations.

Core subjects include:

• Machine learning and automation	• Human-computer interaction
Natural language processing	• Predictive modelling and AI strategy
• Ethics and policies of AI	

Career Opportunities in AI-driven Business Solutions

Graduates can work as AI consultants, automation managers, or innovation strategists in industries like e-commerce, fintech, and healthcare.

Students can also pursue roles like:

• AI project manager	• AI implementation analyst
• Business intelligence developer	• Product development manager

Understanding BBA in Information Technology

What is BBA in IT?

A BBA in Information Technology blends business and IT and teaches how technology tools improve operations and support company goals.

Key areas of study include:

• Cloud computing	• IT infrastructure and network planning
• Cybersecurity and risk management	• Digital transformation tools
• Software engineering for business	

Job Prospects

Graduates can work in IT project coordination, software implementation, and business IT management in logistics, retail, software firms, and consultancy.

Common job roles include:

• IT business analyst	• Cybersecurity consultant
• System coordinator	• Enterprise solutions manager

- **BBA in Information Technology:** Starting salary is about ₹5–8 LPA.
- **BBA in Business Analytics:** Starting salary is about ₹6–9 LPA.

Higher education and certifications help earn more over time.

Future Trends in AI, IT & Business Analytics Understanding BBA in Business Analytics

What is BBA in Business Analytics?

A BBA in Business Analytics teaches students to use data to make better business decisions.

Core subjects include:

• Huge data technologies	• Data mining and data storytelling
• Statistical modelling	• Market trend forecasting
• Business intelligence tools	

Career Scope

Graduates work with data to improve operations and find jobs in market research, logistics planning, and digital consulting.

Roles include:

• Business strategy analyst	• Operations analyst
• Market research consultant	• Customer insights manager

Comparing Career Growth & Industry Demand

All three BBA programs offer good careers and suit different interests and goals.

AI: Focuses on automation and smart systems using machine learning.

IT: Deals with managing technology systems and IT strategy.

Business Analytics: Uses data and numbers to support business decisions.

All streams are in growing industries and value both tech and business skills.

Salary Expectations

Salary depends on role, experience, and company, and it increases with experience and higher studies.

- **BBA in AI:** Starting salary is about ₹6–10 LPA.

The business world is changing fast, and these BBA domains prepare students for the future.

AI: AI skills help students work with automation.

IT: BBA in IT graduates manage digital systems.

Business Analytics: Graduates use data to support business growth.

Other trends include:

- Cross-functional roles require both tech and business understanding.
- AI-led innovation for customer service and operations.
- Increasing demand for tech-native managers who can adapt quickly.

Why Choose a Tech-Integrated BBA Programme?

Tech-integrated BBA programmes prepare students with business and technology skills for modern careers.

Benefits: Hands-on training, industry-designed courses, internships, and future-ready skills.

Student Advantages: Case studies, expert mentors, project-based learning, industry exposure, and strong placements.

Choosing the Right BBA: Pick a course based on your interests, strengths, and career goals.

BBA in Artificial Intelligence: For students who enjoy tech problem-solving and smart applications.

BBA in Information Technology: For those interested in systems, digital tools, and technical management.

BBA in Business Analytics: For students who like data, numbers, and market trends.

Courses can be chosen to match or combine different interests.

Conclusion

The future of business is digital, and BBA courses in AI, IT, and analytics provide practical skills and strong career opportunities for students interested in business and technology.

CHAPTER – 6

COMPUTER COURSES

Computer Courses After 12th: Course Details, Fees, Eligibility

<https://www.lpu.in/blog/computer-courses-after-12th-course-details-fees-eligibility/>

Computer courses after 12th are popular and help you get jobs in programming, networking, and cybersecurity, depending on eligibility, fees, and career options.

Best Computer Courses After 12th

If you are looking for best computer courses after 12th, here are some of the top options:

1. **BCA** – A 3-year course in software, web development, and databases.
2. **B.Sc. Computer Science** – Teaches programming, algorithms, and data structures.
3. **BBA Digital Marketing** – Focuses on digital marketing, social media, and SEO.
4. **B. Tech Computer Science** – A complete course for future software engineers.
5. **Certificate Courses** – Short courses in data science, AI, and cybersecurity.

Scope and Jobs – Computer courses offer many career options, and students from any stream with 50% marks can apply, sometimes through entrance exams.

Salary and Growth in Computer Science Careers: IT salaries depend on skills and experience. Freshers earn ₹3–6 lakhs per year, and experienced professionals earn ₹15 lakhs or more. Course fees vary from low-cost diplomas to expensive degree courses.

Career Opportunities After Computer Science Courses

Completing best computer courses after 12th opens numerous career paths:

• Software Developer	• Cybersecurity Expert
• Data Analyst	• IT Consultant
• Web Designer	

CHAPTER – 7

Career Paths after BCA (Bachelor of Computer Applications) Lateral Entry

[<https://www.lpu.in/blog/career-paths-after-bca-bachelor-of-computer-applications-lateral-entry/>]

What Is the Scope of BCA (Bachelor of Computer Applications) Lateral Entry in Today’s Industry?

BCA Lateral Entry Scope – It offers good career options and helps diploma students gain IT skills faster.

Did you know? (Timesaving) – Students join directly in the second year and save time while building strong IT skills.

Did you know? (Jobs) – BCA graduates can apply for private jobs, MNCs, and government exams like SSC, UPSC, and PSU roles.

Top Specializations You Can Choose After BCA (Bachelor of Computer Applications) Lateral Entry

Specialization Choice – Students can pick a specialization to gain specific skills and better tech careers.

Data Science – Uses data and machine learning to become a data analyst.

Artificial Intelligence – Teaches smart systems and automation for AI careers.

Cybersecurity – Focuses on system protection and security jobs.

Web Development – Teaches building websites and apps for developer roles.

Did you know? (Specialization) – After BCA, students can specialize in AI, Data Science, Cybersecurity, or Full-Stack Development for high-paying jobs.

Essential Skills to Succeed in a BCA (Bachelor of Computer Applications) Lateral Entry programme

Programming skills – Learn C, Java, Python, and JavaScript to code and adapt to new technology.

Problem-solving – Use logical thinking to solve coding and real-life problems.

Software development skills – Understand SDLC, Git, databases, testing, and deployment.

Analytical thinking – Analyze data to improve programs and systems.

Soft skills – Teamwork, communication, time management, and learning are important.

Did you know? (Languages) – Learning one main language like Java, Python, or JavaScript improves skills and job chances.

Career Options After BCA (Bachelor of Computer Applications) Lateral Entry

BCA Lateral Entry Scope – It offers many tech jobs by building skills in programming, databases, networking, and web technologies.

- **Software Developer** – Creates and maintains applications using programming skills.
- **Data Analyst** – Analyzes data and provides useful insights using data tools.
- **System Administrator** – Manages servers, networks, and IT systems and solves issues.

Other Promising Roles Include:

• Web / Front-End Developer	• Cloud Support Associate
• UI/UX Designer	• Cybersecurity Analyst
• IT Support Engineer	• Application Tester (Quality Assurance)
• Database Administrator	

Scope and Salary Trends for BCA (Bachelor of Computer Applications) Lateral Entry Graduates

- **Career scope** – BCA graduates have good job chances in AI, cloud, data, and fintech worldwide.
- **Salary factors** – Pay depends on job role, skills, and experience, with freshers earning less.
- **Higher earnings** – With 3–5 years’ experience and certifications, salaries can reach ₹8–15 LPA or more.

Top Recruiters That Hire BCA (Bachelor of Computer Applications) Lateral Entry Graduates

BCA Lateral Entry graduates are in high demand in IT, software, consulting, and startups. Strong programming, analytical, teamwork, and learning skills lead to careers in development, data, cloud, cybersecurity, and IT support. Top recruiters for BCA graduates include leading global corporations and tech-focused companies.

- **Cognizant** – IT company offering software, cloud, testing, and digital roles.
- **Josh** – Tech media platform with jobs in tech support and data work.
- **Zycus** – AI and procurement company hiring software and analytics roles.
- **ITC** – Large company hiring IT graduates for system and software support.
- **Oracle** – Global cloud and database company offering cloud and DB roles.
- **Byju's** – EdTech firm with jobs in tech operations and app development.
- **Syscom** – Network and system support roles in IT infrastructure.
- **Venture Pact** – Software and consulting firm working on global projects.
- **Code Brew Labs** – Mobile and web company offering development roles.
- **To The New Digital** – Digital firm offering cloud, analytics, and automation jobs.
- **Eninov** – Works in IoT and embedded systems with product roles.
- **Amdocs** – Telecom software company offering development and support roles.
- **NIIT** – Training and tech company hiring for support and content roles.
- **Wipro** – IT services firm offering development, testing, and cloud jobs.
- **Gutropolis** – Startup offering entry-level IT and development roles.
- **Verizon** – Telecom company hiring for cloud, network, and data roles.
- **Meta Design** – Digital solutions firm with web and design tech roles.
- **Hexaware** – Digital services company offering testing and automation jobs.
- **Tech Mahindra** – IT consulting firm with software and support roles.
- **Concentrix** – Tech services company offering IT support roles.
- **Unisys** – IT and cybersecurity firm hiring for infra and cloud support.
- **Aon / AON Hewitt** – Consulting firm offering data and tech roles.
- **TCS** – Large IT company offering roles for fresh graduates.
- **IBM** – Cloud and AI company offering development and data roles.
- **Infosys** – IT firm known for training and software roles.
- **Accenture** – Consulting company offering digital and IT roles.
- **CISCO** – Networking and cybersecurity company offering network roles.

These companies hire BCA graduates as Software Developers, Data Analysts, UI/UX Designers, Network Engineers, System Administrators, Tech Support, and Cybersecurity Assistants, with skilled candidates earning more and advancing faster.

Top Government Exams and Career Opportunities After BCA (Bachelor of Computer Applications) Lateral Entry

• Government jobs for BCA graduates:

BCA graduates can get government jobs with stable pay, good work-life balance, and roles in IT, software, data, cybersecurity, and administration.

• PSU opportunities:

BCA graduates can work in PSUs like ISRO, DRDO, NIC, BEL, BHEL, ONGC, NTPC, and RailTel in roles such as Programmer, IT Officer, or System Analyst.

• SSC and UPSC exams:

BCA graduates can appear for SSC for ministry jobs and UPSC for top posts like IAS, IPS, and IFS.

Additional Government Pathways:

- **Banking exams:**
BCA graduates can clear banking exams to work in IT support, databases, and digital banking.
- **State government IT jobs:**
Through state exams, BCA graduates can get jobs like Computer Operator or IT Assistant.
- **Digital governance & NIC jobs:**
BCA graduates can work on e-governance, cybersecurity, and digital systems.

Final thought: BCA Lateral Entry gives quick access to IT careers in software, data, cybersecurity, cloud, apps, and UI/UX.

Frequently Asked Questions (FAQs)

Ques-1. What is BCA (Bachelor of Computer Applications) Lateral Entry and who is eligible for it?

Ans-1: BCA Lateral Entry allows diploma students to enter directly into the 2nd year of BCA.

Ques-2. Is BCA (Bachelor of Computer Applications) Lateral Entry a good career option?

Ans-2: Yes, it is a good option for IT careers and builds strong programming and software skills.

Ques-3. What job roles can I pursue after BCA (Bachelor of Computer Applications) Lateral Entry?

Ans-3: BCA graduates can work as Developers, Data Analysts, System Admins, UI/UX Designers, and IT professionals.

Ques-4. Are there good placement opportunities after BCA (Bachelor of Computer Applications) Lateral Entry?

Ans-4: Yes, good placements are available in IT firms, startups, and MNCs with the right skills.

Ques-5. Can I go for higher studies after completing BCA (Bachelor of Computer Applications) Lateral Entry?

Ans-5: After BCA, students can study MCA, MBA (IT), or IT specialisation courses for better careers.

CHAPTER – 8

HOTEL MANAGEMENT COURSES

Hotel Management Courses after 12th in India – Courses, Fee Structures, and More

[<https://www.lpu.in/blog/hotel-management-courses-after-12th-in-india/>]

The hospitality industry is growing fast, and hotel management courses after 12th are good for students interested in hospitality and management. These courses are open to Science, Commerce, and Arts students.

List of Hotel Management Courses After 12th in India

Hotel management courses after 12th teach skills in hospitality, catering, front office, food & beverage, and event management, based on students' interests.

Undergraduate and Diploma Hotel Management Courses After 12th

Course Name	Eligibility Criteria	Duration
Bachelor of Hotel Management (BHM)	12th Pass in any stream	3-4 years
B.Sc. in Hospitality and Hotel Administration	12th Pass in any stream	3 years
BBA in Hotel Management	12th Pass in any stream	3 years
Diploma in Hotel Management After 12th	12th Pass in any stream	1-3 years
Certificate Courses in Hotel Management	10th or 12th Pass	6 months – 1 year

For students from an Arts background, hotel management courses after 12th arts offer a great opportunity to enter the hospitality industry.

Top Institutes Offering Hotel Management Courses After 12th

Many top Indian colleges offer hotel management courses after 12th, including diplomas and degree programs.

Institute Name	Course Offered	Location
Institute of Hotel Management (IHM) Delhi	B.Sc. in Hospitality and Hotel Administration	New Delhi
Institute of Hotel Management (IHM) Mumbai	B.Sc. in Hospitality and Hotel Administration	Mumbai
Welcome group Graduate School of Hotel Administration (WGSHA)	BHM	Manipal
Lovely Professional University (LPU)	Bachelor of Hotel Mgt and Catering Technology (BHMCT), B.Sc. (Airlines, Tourism and Hospitality)	Phagwara, Punjab
Christ University	BBA in Hotel Management	Bengaluru
SRM Institute of Hotel Management	B.Sc. in Hospitality and Hotel Administration	Chennai
Oberoi Centre of Learning and Development (OCLD)	Diploma in Hotel Management	Multiple Locations
Amity School of Hospitality	BHM	Noida

Pursuing hotel management after 12th from a top institute can enhance career prospects and offer global exposure.

List of Entrance Exams and Scholarships for Hotel Management Courses After 12th

Admission to top hotel management courses after 12th may require clearing entrance exams.

Entrance Exam Name	Conducting Body	Eligibility Criteria	Application Period	Exam Date
National Council for Hotel Management Joint Entrance Exam (NCHM JEE)	NTA (National Testing Agency)	12th Pass in any stream	January – March	April
AIHMCT WAT	Army Institute of Hotel Management	12th Pass in any stream	March – April	May
Oberoi STEP	Oberoi Group	12th Pass in any stream	February – April	May
LPUNEST (Hotel Management)	Lovely Professional University	12th Pass in any stream	October – January	January – February

Many colleges offer scholarships based on merit, exam scores, or financial need to lower hotel management course fees after 12th.

Career opportunities: Hotel management courses after 12th lead to many jobs in hospitality and tourism.

Jobs in Hotel Management

- **Hotel Manager:** Manages hotel operations and staff.
- **Front Office Executive:** Handles guest check-ins and customer service.
- **Food and Beverage Manager:** Manages restaurants, catering, and bar services.
- **Chef:** Works in hotel kitchens, restaurants, or cruise ships.
- **Housekeeping Manager:** Looks after room cleanliness and maintenance.

Jobs in the Tourism and Hospitality Sector

- **Travel Consultant:** Helps travelers with bookings and trip planning.
- **Event Manager:** Plans weddings, conferences, and corporate events.
- **Resort Manager:** Manages daily work at resorts and spas.
- **Cruise Line Staff:** Works in hospitality roles on cruise ships.

Industry demand: Growing tourism is increasing demand for hotel management professionals.

FAQs

1. What are the eligibility criteria for hotel management courses after 12th?

- **Eligibility:** Students must pass 12th in any stream; some colleges need entrance exams.

2. What is the best diploma in hotel management after 12th?

- **Best diploma:** Popular diplomas are Food Production, Bakery, Housekeeping, and Front Office.

3. What is the duration of hotel management courses after 12th?

- **Course duration:** Degrees take 3–4 years, diplomas 1–3 years, and certificates 6–12 months

4. What is the average fee for hotel management courses after 12th?

- **Average fees:** Fees range from ₹50,000 to ₹3,50,000 per year.

5. Can I pursue hotel management after 12th arts?

- **Arts students:** Yes, Arts students can also study hotel management.

6. What are the best institutes for hotel management after 12th?

- **Best institutes:** Top colleges include IHM, LPU, WGSMA Manipal, Oberoi Centre, and SRM.

7. Are scholarships available for hotel management courses after 12th?

- **Scholarships:** Yes, scholarships are available based on merit or need.

8. What are the job prospects after completing hotel management courses?

- **Job prospects:** Graduates can work in hotels, resorts, airlines, cruises, events, and tourism.

9. Do hotel management courses require internships?

- **Internships:** Yes, internships are part of most hotel management courses.

10. Is a diploma in hotel management after 12th a good option?

- **Diploma value:** Yes, diplomas give quick, job-focused training for fast employment.

Conclusion: Hotel management courses after 12th offer good careers in hospitality. Students can choose degrees, diplomas, or certificates if they enjoy service and management.

CHAPTER – 9

Best Hotel Management Colleges in India, Top Institutes After 12th

[\[https://www.lpu.in/blog/best-hotel-management-colleges-in-india/\]](https://www.lpu.in/blog/best-hotel-management-colleges-in-india/)

Top hotel management colleges in India include LPU, IHMs, and private institutes like Oberoi, Symbiosis, Christ, and Amity.

India's hospitality industry is growing fast, and top colleges provide good training and career opportunities.

Why Choose Hotel Management as a Career in India?

Hotel Management Careers

Hotel management offers many jobs in hospitality, tourism, aviation, and events.

Key Benefits of Hotel Management

- High demand for hotel professionals worldwide
- Focus on practical and hands-on skills
- Chances to work in other countries
- Quick career growth with experience

Top Hotel Management Colleges in India

India has several reputed government and private institutes offering world-class hospitality education.

Top Government & Private Hotel Management Institutes

Institute Name	Location	Type
IHM Delhi	New Delhi	Government
IHM Mumbai	Mumbai	Government
IHM Bangalore	Bangalore	Government
IHM Chennai	Chennai	Government

Oberoi Centre of Learning & Development	Delhi	Private
Welcome group Graduate School of Hotel Administration	Manipal	Private
Lovely Professional University (LPU)	Punjab	Private
Symbiosis Institute of Hotel Management	Pune	Private
Christ University	Bangalore	Private
Amity University	Noida	Private

Top Private Hotel Management Colleges in India

Leading Private Hospitality Universities

Oberoi Centre of Learning & Development	Amity University
Welcome group Graduate School of Hotel Administration	Manipal Academy of Higher Education
Lovely Professional University (LPU)	Alliance University
Symbiosis Institute of Hotel Management	Galgotias University
Christ University	

Best Hotel Management Courses in India After 12th

Students from any stream can pursue hotel management after Class 12.

Popular Hotel Management Courses

• BHM (Bachelor of Hotel Management)	• BBA in Hotel Management
• B. Sc in Hospitality & Hotel Administration	• Diploma in Hotel Management

Top Colleges After 12th

• IHMs (Delhi, Mumbai, Bangalore, Chennai)	• Amity University
• Lovely Professional University (LPU)	• Christ University
• Symbiosis Institute of Hotel Management	

Admission Process for Hotel Management Colleges in India

Steps for Admission

1. Pass Class 12 from a recognized board
2. Appear for entrance exams (NCHM JEE, LPUNEST, or university tests)
3. Personal interview or counseling
4. Final admission and fee payment

Career Opportunities After Hotel Management

Popular Job Roles

• Hotel Manager	• Event Manager
• Front Office Executive	• Airline Cabin Crew
• Food & Beverage Manager	• Cruise Line Staff
• Chef/ Culinary Specialist	• Hospitality Consultant

Top Recruiters

Taj Hotels, Oberoi, Marriott, Hyatt, ITC, Radisson, and global hospitality brands.

CHAPTER – 10

MEDICAL COURSES

Top Medical Courses after 12th in India – Eligibility, Fees, and Admission

[<https://www.lpu.in/blog/top-medical-courses-after-12th-in-india-eligibility-fees-and-admission-2025/>]

Medical courses after 12th offer many career options in healthcare and a chance to serve society.

Best Medical Courses After 12th

This guide lists medical courses after 12th, including MBBS, nursing, physiotherapy, and allied health, with basic admission details.

1. MBBS (Bachelor of Medicine, Bachelor of Surgery)

MBBS trains students to become doctors who diagnose and treat diseases.

- **Eligibility**
 - Must pass 12th with Physics, Chemistry, and Biology
 - 50% marks for general category, 40% for SC/ST/OBC
 - NEET exam is required
- **Fees**
 - Government colleges: ₹10,000 to ₹2 lakhs per year
 - Private colleges: ₹10 lakhs to ₹25 lakhs per year

- **Admission Process**
 - Admission is through NEET exam and counselling.

2. BDS (Bachelor of Dental Surgery)

BDS is a 5-year course that trains students to become dental doctors.

- **Eligibility**
 - Must pass 12th with Physics, Chemistry, and Biology
 - At least 50% marks in PCB
 - NEET exam is required
- **Fees**
 - Government colleges: ₹50,000 to ₹2 lakhs per year
 - Private colleges: ₹2 lakhs to ₹5 lakhs per year
- **Admission Process**
 - Admission is based on NEET score and counseling

3. BAMS (Ayurvedic Medicine and Surgery)

BAMS teaches Ayurveda with modern medical knowledge.

- **Eligibility**
 - 12th with Physics, Chemistry, Biology
 - At least 50% marks in PCB
 - NEET is required
- **Fees**
 - Government colleges: ₹30,000 to ₹2 lakhs per year
 - Private colleges: ₹1 lakhs to ₹6 lakhs per year
- **Admission Process**
 - Admission through NEET and counselin

4. BHMS (Homeopathic Medicine and Surgery)

BHMS focuses on homeopathy and natural treatment.

- **Eligibility**
 - 12th with Physics, Chemistry, Biology
 - Minimum 50% marks in PCB
 - NEET is required
- **Fees**
 - Government colleges: ₹10,000 to ₹1.5 lakhs per year
 - Private colleges: ₹1 lakhs to ₹4 lakhs per year
- **Admission Process**
 - Admission through NEET and centralized counseling

5. BPT (Bachelor of Physiotherapy)

BPT trains students to help patients recover movement.

- **Eligibility**
 - 12th with Physics, Chemistry, Biology
 - Minimum 50% marks in PCB
- **Fees**
 - Government colleges: ₹50,000 to ₹2 lakhs per year
 - Private colleges: ₹1 lakhs to ₹4 lakhs per year
- **Admission Process**
 - Admission through entrance exam or merit

6. Nursing (B.Sc. Nursing, GNM)

Nursing prepares students for patient care roles.

- **Eligibility**
 - 12th with Physics, Chemistry, Biology
 - At least 50% marks in PCB
- **Fees**
 - B.Sc. Nursing: ₹50,000 to ₹2 lakhs per year
 - GNM: ₹25,000 to ₹1.5 lakhs per year
- **Admission Process**
 - Admission through NEET or institute exams

7. B. Optometry

B. Optometry focuses on eye and vision care.

- **Eligibility**
 - 12th with Physics, Chemistry, Biology
 - Minimum 50% marks in PCB

- **Fees**
 - Government colleges: ₹30,000 to ₹1.5 lakhs per year
 - Private colleges: ₹1 lakhs to ₹3 lakhs per year
- **Admission Process**
 - Admission through entrance exam or merit

8. Bachelor of Veterinary Science

Veterinary science deals with animal healthcare.

- **Eligibility**
 - 12th with Physics, Chemistry, Biology
 - Minimum 50% marks in PCB
- **Fees**
 - Government colleges: ₹20,000 to ₹2 lakhs per year
 - Private colleges: ₹1 lakhs to ₹5 lakhs per year
- **Admission Process**
 - Admission through NEET or college exams

9. B.Sc. Medical Courses

These courses offer medical specializations like labs and imaging.

- **Eligibility**
 - 12th with PCB or related subjects
 - At least 50% marks
- **Fees**
 - Government colleges: ₹20,000 to ₹1 lakhs per year
 - Private colleges: ₹1 lakhs to ₹3 lakhs per year
- **Admission Process**
 - Admission through entrance exam or merit

Conclusion

Medical courses after 12th offer careers like doctor, dentist, physiotherapist, and optometrist in healthcare.

- Students must understand NEET, eligibility, admission dates, and fees.
- Good planning and hard work can lead to a successful medical career.

CHAPTER – 11

TRAVEL AND TOURISM COURSES

Top Travel and Tourism Courses after 12th: Duration, Fees & Future Opportunities

[<https://www.lpu.in/blog/top-travel-and-tourism-courses-after-12th-duration-fees-future-opportunities/>]

Travel and tourism courses after 12th offer jobs in hospitality, aviation, travel agencies, tour operations, and events, and teach customer service, communication, and travel planning skills.

Popular Travel and Tourism Courses After 12th in India

India offers travel and tourism courses after 12th with both theory and practical training in tourism, hospitality, ticketing, and travel operations.

Course Name	Eligibility Criteria	Duration
BBA in Tourism and Travel Management	12th Pass in any stream	3 years
Bachelor of Tourism Studies (BTS)	12th Pass in any stream	3 years
B.Sc. in Hospitality and Tourism Studies	12th Pass in any stream	3 years
BA in Travel and Tourism	12th Pass in any stream	3 years
Diploma in Travel and Tourism	12th Pass in any stream	1–2 years
Certificate Course in Travel and Tourism	12th Pass in any stream	6 months – 1 year
BBA in Aviation, Tourism and Hospitality	12th Pass in any stream	3 years
Bachelor of Hotel Management and Tourism	12th Pass in any stream	3–4 years

Top Colleges Offering Travel and Tourism Courses After 12th

Many top Indian colleges offer travel and tourism courses after 12th with modern facilities and experienced faculty.

Institute Name	Course Offered	Location
Lovely Professional University (LPU)	Bachelor of Tourism and Travel Management (BTTM)	Phagwara, Punjab
Christ University	BA in Travel and Tourism Management	Bangalore
ITM Institute of Hotel Management	BBA in Tourism Management	Mumbai
Indira Gandhi National Open University (IGNOU)	Bachelor of Tourism Studies (BTS)	Distance Mode
Banaras Hindu University (BHU)	BA in Tourism Administration	Varanasi
University of Mumbai	B.Sc. in Hospitality and Tourism Studies	Mumbai
Institute of Hotel Management (IHM)	B.Sc. in Hospitality & Hotel Administration	Delhi
Mahatma Gandhi University	BBA in Travel and Tourism	Kottayam

Entrance Exams and Scholarships for Travel and Tourism Courses After 12th

Some travel and tourism courses after 12th offer merit-based admission, while others require entrance exams. Scholarships are available for good academic or test performance.

Entrance Exam Name	Conducting Body	Eligibility	Application Period	Exam Date
LPUNEST	Lovely Professional University	12th Pass	January– March	Ongoing
CUET (UG)	National Testing Agency (NTA)	12th Pass	February – March	May
IIHM eCHAT	IIHM	12th Pass	January – April	April
NCHM JEE	NTA	12th Pass	January– March	May
IPU CET (for Tourism)	Guru Gobind Singh Indraprastha University	12th Pass	March – April	May

Scholarships are given based on entrance exams, board marks, or financial need.

Career Opportunities After Travel and Tourism Courses

Travel and tourism courses lead to jobs in government and private sectors.

- Travel Consultant: Helps people plan and book trips.
- Tour Operator: Creates and manages tour packages.
- Airline Ground Staff: Manages check-in and customer service at airports.
- Travel Blogger/Influencer: Shares travel content and experiences online.
- Tour Guide: Guides tourists at travel locations.
- Cruise Line Staff: Works on cruise ships in guest services.
- Event Coordinator: Plans travel-related events and destination weddings.
- Hotel and Resort Manager: Manages hotel or resort operations and guests.

Travel and Tourism Courses After 12th: Fees Structure

Travel and tourism course fees after 12th vary, with government colleges usually costing less than private institutions.

Course Type	Average Fee (Per Year)
Bachelor's Degree (BBA, BA, B.Sc.)	Rs. 50,000 – Rs. 2,00,000
Diploma Courses	Rs. 30,000 – Rs. 1,50,000
Certificate Courses	Rs. 10,000 – Rs. 50,000

Top Recruiters in the Travel and Tourism Sector

Graduates of travel and tourism courses after 12th can find employment with a wide range of renowned recruiters, including:

• MakeMyTrip	• Club Mahindra Holidays
• Thomas Cook India	• IndiGo Airlines
• Yatra.com	• Vistara Airlines
• Cox & Kings	• IRCTC
• Taj Hotels & Resorts	• Indian Tourism Development Corporation (ITDC)

These organizations offer jobs in tour operations, airlines, hospitality, destination marketing, and related fields.

FAQs

Q1. What are the eligibility criteria for travel and tourism courses after 12th?

A1. **Eligibility:** Most courses need a 12th pass from any stream; some require exams or interviews.

Q2. Are there entrance exams for travel and tourism courses after 12th?

A2. **Entrance Exams:** Some colleges use exams like LPUNEST, CUET, AIMA UGAT, and NCHM JEE.

Q3. What is the duration of travel and tourism courses after 12th?

A3. **Duration:** Degree courses take 3 years, diplomas 1–2 years, and certificates 6 months to 1 year.

Q4. What is the fee structure for these courses?

A4. **Fees:** Fees range from ₹10,000 to ₹2,00,000 per year, based on the course and college.

CHAPTER – 12

MBA COURSES

MBA in International Business, Fintech & Healthcare: Choosing the Right Specialization for You

[<https://www.lpu.in/blog/mba-in-international-business-fintech-healthcare-choosing-the-right-specialization-for-you/>]

Choosing the Right MBA Specialization

Choosing the right MBA specialization helps match your career goals.

Popular MBA Specializations

Fields like International Business, Fintech, and Healthcare Management offer good skills and growth.

MBA in International Business

This course teaches global trade, marketing, finance, and supply chains with practical learning.

Career Options

Graduates can work in export-import, logistics, banks, consulting, and MNCs in various roles.

Career Value

MBA in International Business offers long-term growth and chances to work with global companies or abroad.

1. International Business – Core Subjects

- **Global Trade Practices:** Teaches rules and processes of international trade.
- **International Finance:** Covers finance, forex, and risk in global companies.
- **Cross-Border Marketing:** Focuses on global marketing strategies.

International Business – Career Opportunities

- **International Marketing Manager:** Handles marketing in global markets.
- **Export/Import Manager:** Manages international trade operations.
- **Global Supply Chain Manager:** Oversees global logistics and supply chains.

Top Institutes (International Business)

- IIFT and Symbiosis offer well-known International Business programs.

2. MBA in Fintech

MBA Fintech combines finance with technology skills.

Fintech – Key Subjects

- **Blockchain Technology:** Studies blockchain use in finance.
- **Financial Analytics:** Uses data for financial decisions.
- **Digital Banking:** Covers online banking and payment systems.

Fintech – Job Roles

- **Fintech Product Manager:** Develops fintech products.
- **Fintech Investment Analyst:** Analyzes data for investments.
- **Blockchain Consultant:** Guides firms on blockchain use.

Fintech Demand

- India has 9,000+ fintech startups needing skilled professionals.
- IIM Sambalpur offers Fintech MBA programs.

3. MBA in Healthcare Management

This MBA focuses on managing hospitals and healthcare systems.

Healthcare – Core Areas

- **Hospital Administration:** Manages hospital operations.
- **Medical Tourism:** Covers healthcare travel business.
- **Healthcare Laws and Policies:** Studies legal and ethical rules.

Healthcare – Career Scope

- **Hospital Administrator:** Runs healthcare facilities.
- **Healthcare Consultant:** Improves healthcare services.
- **Pharma Project Manager:** Manages projects in pharma companies.
- IIHMR offers healthcare management programs.

4. Career Growth and Industry Demand

- **International Business:** Offers global roles in MNCs.
- **Fintech:** Fast growth with high salaries in startups.
- **Healthcare Management:** Stable jobs with steady demand.

5. Future Trends

- **International Business:** AI and automation increase demand for tech-savvy professionals.
- **Fintech:** Blockchain and digital currency drive new job roles.
- **Healthcare Management:** Aging population raises need for healthcare managers.

Conclusion

Choose an MBA specialization based on your interests, skills, and industry trends. International Business, Fintech, and Healthcare Management offer strong career opportunities.

CHAPTER – 13

List of Courses and Career Options after 12th Science

Education is a crucial decision that shapes your future. After 12th exams, choosing the right course and career can be challenging and has a strong impact on life after graduation.

Career options after 12th Science

After 12th, students can choose many science courses like engineering, medicine, pharmacy, dentistry, agriculture, architecture, biotechnology, maths, physics, chemistry, biology, computer science, IT, environmental science, astronomy, nanotechnology, geology, forensic science, and biochemistry.

List of Courses after 12th Science

Bachelor of Technology (B. Tech).	Bachelor of Engineering (B.E).
Bachelor of Medicine and Bachelor of Surgery (MBBS)	Bachelor of Dental Surgery (BDS)
Bachelor of Pharmacy (B. Pharm)	Bachelor of Science (B.Sc.)
Bachelor of Computer Applications (BCA)	Bachelor of Design (B. Des)
Bachelor of Architecture (B. Arch)	Bachelor of Legislative Law (LLB)
Bachelor of Social Work (BSW)	<u>Bachelor of Physiotherapy (B.P.T)</u>
<u>Bachelor of Optometry (B. opt)</u>	BHM in Hospitality & Travel
Bachelor of Journalism & Mass Communication (BJMC)	Bachelor of Business Administration
Bachelor of Arts (B.A) in Humanities, Social Sciences & Fine Arts	

We can further divide the opportunities into two subparts: PCM and PCB

High Salary Courses after 12th Science (PCM)

[<https://www.bmu.edu.in/social/high-salary-courses-after-12th-science/>]

Why Do You Need to Choose High-Salary Courses After 12th Science?

High-salary courses after 12th science can improve your future with good pay and growth.

- **Career Advancement:** These courses help you grow in your career.
- **Job Security:** There is strong demand in tech, healthcare, and engineering.
- **Personal Satisfaction:** Doing a high-pay job you like brings happiness.
- **Global Opportunities:** These courses allow jobs abroad.
- **Skill Development:** They teach practical skills for better jobs.

High Salary Courses after 12th Science PCM (Mathematics)

- **PCM Foundation:** PCM builds strong basics in science and maths.
- **Good Careers:** These fields offer well-paid jobs with growth.
- **Best Options:** PCM gives many high-salary course choices.

1. B. Tech in Computer Science and Engineering

- Many students choose B. Tech CSE because it is challenging and interesting.
- It teaches algorithms, data structures, AI, ML, networking, and cybersecurity.
- Computer engineers are in high demand across many industries.

Details	Information
Specialisations	AI, Machine Learning, Data Science, Cybersecurity, Software Engineering
Course Duration	4 Years
Career Scope	Software Developer, Data Analyst, IT Consultant
Tuition Fees	INR 1,00,000 to INR 4,00,000 per year
Eligibility	10+2 with PCM (50%+ marks) and entrance exams like JEE Main
Average Salary	INR 6-12 L PA

2. B. Tech in Mechanical Engineering

- B.Tech teaches machine design, development, and maintenance.
- Students learn thermodynamics, mechanics, materials, and robotics.
- Graduates get jobs in automotive, aerospace, and energy fields.

Details	Information
Specialisations	Automotive, Robotics, Thermal Engineering, Aerospace
Course Duration	4 Years
Career Scope	Mechanical Engineer, Design Engineer, Project Manager
Tuition Fees	INR 80,000 to INR 3,50,000 per year
Eligibility	10+2 with PCM (50%+ marks) and entrance exams like JEE Main
Average Salary	INR 5-10 L PA

3. B. Tech in Aeronautical and Aerospace Engineering

- It focuses on designing aircraft and spacecraft.
- Students learn avionics, propulsion, and aerodynamics.

Details	Information
Specialisations	Aerodynamics, Propulsion, Avionics, Space Technology
Course Duration	4 Years
Career Scope	Aerospace Engineer, Flight Engineer, Space Scientist
Tuition Fees	INR 1,50,000 to INR 5,00,000 per year
Eligibility	10+2 with PCM (60%+ marks) and entrance exams like JEE Main
Average Salary	INR 6-15 L PA

4. B. Tech in Electrical Engineering

- It teaches power electronics, control systems, and electromagnetics.
- It prepares students for power and automation industry roles.

Details	Information
Specialisations	Power Systems, Control Engineering, Microelectronics, Signal Processing
Course Duration	4 Years
Career Scope	Electrical Engineer, Power Systems Engineer, Control Engineer
Tuition Fees	INR 90,000 to INR 3,00,000 per year
Eligibility	10+2 with PCM (50%+ marks) and entrance exams like JEE Main
Average Salary	INR 5-9 L PA

5. B. Tech in Civil Engineering

- It focuses on planning and building structures.
- Students learn structural, environmental, and transport basics.
- Graduates get good jobs due to growing construction demand.

Details	Information
Specialisations	Structural Engineering, Transportation Engineering, Environmental Engineering
Course Duration	4 Years
Career Scope	Civil Engineer, Structural Engineer, Site Manager
Tuition Fees	INR 80,000 to INR 2,50,000 per year
Eligibility	10+2 with PCM (50%+ marks) and entrance exams like JEE Main
Average Salary	INR 4-8 L PA

6. B.Sc. in Mathematics

- It focuses on mathematical theory and applications.
- Students study algebra, calculus, geometry, and statistics.
- Graduates can work in data science, finance, education, and research.

Details	Information
Specialisations	Pure Mathematics, Applied Mathematics, Statistics, Computational Mathematics
Course Duration	3 Years
Career Scope	Data Analyst, Statistician, Research Scientist, Mathematician
Tuition Fees	INR 50,000 to INR 1,50,000 per year
Eligibility	10+2 with Mathematics (50%+ marks)
Average Salary	INR 4-8 L PA

7. Bachelor of Computer Application (BCA)

- It teaches programming, databases, networks, and web development.
- It builds strong computer and technology skills.
- Graduates work as developers, web designers, and IT consultants.

Details	Information
Specialisations	Web Development, Database Management, Networking, Cybersecurity
Course Duration	3 Years
Career Scope	Software Developer, Web Designer, IT Consultant
Tuition Fees	INR 60,000 to INR 1,50,000 per year
Eligibility	10+2 with Mathematics or Computer Science (50%+ marks)
Average Salary	INR 3-6 L PA

In this era of technology, numerous new-age career options have emerged in the last decade.

Engineering	Architecture	Commercial Pilot
Merchant Navy	Data Analytic	Big Data
Data Science	Ethical Hacking	Robotics
Aerospace	Cyber Security	Physicists & Teaching
Blockchain Engineer	Game coder	Artificial Intelligence & Machine Learning

High-Salary Jobs in the Science Stream

Here's a table outlining the science stream jobs list with salary:

Job Role	Field	Average Annual Salary (₹)
Data Scientist	IT and Analytics	8,00,000 – 20,00,000
Software Engineer	Computer Science	6,00,000 – 15,00,000
Artificial Intelligence Engineer	AI and Machine Learning	10,00,000 – 20,00,000
Medical Doctor	Healthcare	10,00,000 – 25,00,000
Biomedical Engineer	Healthcare and Technology	5,00,000 – 10,00,000
Aerospace Engineer	Engineering and Research	8,00,000 – 18,00,000
Petroleum Engineer	Energy	10,00,000 – 20,00,000
Pharmaceutical Scientist	Biotech and Pharmaceuticals	6,00,000 – 12,00,000

Forensic Scientist	Criminal Investigation	5,00,000 – 10,00,000
Environmental Scientist	Environmental Research	4,00,000 – 8,00,000

CHAPTER – 14

ENGINEERING

Top Career Options after 12th Science (PCM) – Best Opportunities & Paths

[<https://www.lpu.in/blog/top-career-options-after-12th-science-pcm-best-opportunities-paths/>]

Choosing the right career after 12th PCM is important for a good future.

PCM offers many career options in engineering, research, aviation, and management.

Tips for Choosing the Right Career Path After 12th PCM

1. Engineering

A popular career after 12th science with many specializations like CSE, Mechanical, Civil, ECE, and Electrical.

2. Architecture

A good choice for creative students, focusing on designing buildings and urban spaces.

3. Computer Applications & IT

High-demand fields due to digital growth, with courses like B. Tech CSE, B.Sc. IT, and BCA.

4. Navy Defence & Merchant

A good career for those who want to serve the nation through defence or merchant navy.

5. Business & Management

PCM students can choose business careers through courses like BBA or BBA-MBA.

6. Data Science & Artificial Intelligence

Fast-growing fields that are changing many industries.

7. Robotics & Automation

A promising career due to increasing use of automation.

8. Ethical Hacking & Cybersecurity

Popular careers because of rising cyber threats.

9. Pure Sciences & Research

B.Sc. in Physics or Chemistry leads to research and academic careers.

Mathematics & Statistics

Courses lead to jobs in finance, analytics, research, and technology.

High-Paying Courses After 12th Science PCM

Some courses offer high salary opportunities after PCM.

- B. Tech Computer Science & Engineering – High demand and good pay.
- B. Tech CSE (AI & ML) – Strong career with high salary growth.
- B. Tech Aerospace Engineering – High-paying jobs in aviation and space.
- B.Arch. (Architecture) – Good income in design and construction.
- BBA with Specialization – High-paying roles in management and business.

Average Salary Package

Salaries depend on field and specialization.

- Engineering – Rs. 4–12 LPA
- Data Science & AI – Rs. 6–20 LPA
- Cybersecurity & Ethical Hacking – Rs. 5–15 LPA
- Business & Management – Rs. 4–10 LPA
- Aviation – Rs. 6–25 LPA

CHAPTER –15

Which Engineering Discipline is best for you? A Guide to Future Careers

[<https://www.lpu.in/blog/which-engineering-discipline-is-best-for-you/>]

Engineering has many fields to choose from. Choosing the right one is important for your skills and career.

This guide helps you decide if you are unsure which field is best for you.

Top Discipline in Engineering

1. **Computer Science and Engineering (CSE)**
Best for students who like coding and problem-solving.
Jobs include software, AI, data, cloud, and cybersecurity roles.
2. **Mechanical Engineering**
Good for those interested in machines, robotics, and design.
Careers are in automotive, aerospace, manufacturing, and new technologies.
3. **Civil Engineering**
Ideal for students interested in construction and infrastructure.
High demand due to urban growth and sustainable development.

4. **Electrical and Electronics Engineering (EEE)**
Suitable for students who like electrical systems and power technology.
Jobs are in energy, automation, electronics, and electric vehicles.
5. **Electronics and Communication Engineering (ECE)**
Best for those interested in communication, networking, and electronics.
Careers include telecom, IoT, semiconductors, and 5G technologies.
6. **Biotechnology Engineering**
Good for students interested in biology and medical technology.
Jobs are in healthcare, pharma, genetics, and bio-innovation.
7. **Aerospace Engineering**
Ideal for students fascinated by aircraft and space technology.
Careers are in aviation, defence, space research, and drones.
8. **Chemical Engineering**
Suitable for those interested in chemistry and industrial processes.
Jobs include pharma, energy, materials, and green technologies.
9. **Information Technology (IT)**
Best for students who enjoy software, networking, and cybersecurity.
High demand roles in IT services, cloud, and security fields.
10. **Agricultural Engineering**
Good for students interested in farming and sustainable agriculture.
Careers are in agribusiness, irrigation, food processing, and Agri-technology.

Factors to Consider When Choosing an Engineering Branch

1. **Personal Interest:** Choose a field that matches what you enjoy and are good at.
2. **Industry Trends:** Look for fields with high demand and job growth.
3. **Course Curriculum:** Check the subjects and practical skills you will learn.
4. **Future Technology Growth:** Pick a branch that is growing and has long-term scope.
5. **Job Market Opportunities:** Consider job chances, placements, and salary levels.
6. **Higher Studies and Specialization:** Think about future study and specialization options.
7. **Work-Life Balance:** Some fields are demanding, others offer flexible work.
8. **Internship and Research:** Choose colleges with good internships and research support.

Conclusion: Choosing the right engineering field is important for your career.

By knowing your interests, job demand, and future technology trends, you can make a good choice.

CHAPTER – 16

Top Engineering Fields after 12th in India – Explore Your Future in Technology and Innovation

[<https://www.lpu.in/blog/top-engineering-fields-after-12th-in-india/>]

Choosing an engineering field after 12th in India is important for career success. Many opportunities exist in technology and research, letting students pick fields that match their interests and goals.

List of Top Engineering Fields After 12th in India

India offers many engineering fields after 12th, such as computer science, mechanical, civil, and electronics, catering to different interests. Below is a table highlighting some of the best engineering Course for students after completing their 12th grade:

Engineering Field	Eligibility Criteria	Duration
Computer Science Engineering (CSE)	12th Pass with Physics, Chemistry, and Mathematics; qualifying entrance exam (e.g., JEE Main)	4 years
Mechanical Engineering	12th Pass with Physics, Chemistry, and Mathematics; qualifying entrance exam	4 years
Civil Engineering	12th Pass with Physics, Chemistry, and Mathematics; qualifying entrance exam	4 years
Electrical and Electronics Engineering (EEE)	12th Pass with Physics, Chemistry, and Mathematics; qualifying entrance exam	4 years
Electronics and Communication Engineering (ECE)	12th Pass with Physics, Chemistry, and Mathematics; qualifying entrance exam	4 years
Information Technology (IT) Engineering	12th Pass with Physics, Chemistry, and Mathematics; qualifying entrance exam	4 years
Biotechnology Engineering	12th Pass with Physics, Chemistry, and Biology/Mathematics	4 years
Aerospace Engineering	12th Pass with Physics, Chemistry, and Mathematics; qualifying entrance exam	4 years

Top Institutes Offering Engineering Fields After 12th in India

Several prestigious institutes in India provide specialized programs in various engineering after 12th. Below is a list of top institutes offering the best engineering programs:

Institute Name	Engineering Fields Offered	Location
Indian Institute of Technology (IIT) Bombay	CSE, Mechanical, Civil, Electrical, Aerospace	Mumbai
Indian Institute of Technology (IIT) Delhi	CSE, Mechanical, Civil, ECE, Biotechnology	New Delhi
Indian Institute of Technology (IIT) Madras	CSE, Mechanical, Aerospace, Electrical	Chennai
National Institute of Technology (NIT) Trichy	CSE, Mechanical, Civil, IT	Trichy
Vellore Institute of Technology (VIT)	CSE, Mechanical, EEE, IT	Vellore
Birla Institute of Technology and Science (BITS) Pilani	CSE, Mechanical, EEE, Biotechnology	Pilani
Lovely Professional University (LPU)	CSE, Mechanical, Civil, ECE, Aerospace	Phagwara, Punjab
SRM Institute of Science and Technology	CSE, Mechanical, Biotechnology, IT	Chennai

List of Entrance Exams and Scholarships for Engineering Fields After 12th

To secure admission in Engineering after 12th, students must clear relevant entrance exams. Below is a table highlighting some of the major entrance exams for various engineering fields:

Entrance Exam Name	Conducting Body	Eligibility Criteria	Application Period	Exam Date
Joint Entrance Examination (JEE) Main	National Testing Agency (NTA)	12th Pass with PCM	November to December	January and April
Joint Entrance Examination (JEE) Advanced	IITs	Top JEE Main qualifiers	May	June
Birla Institute of Technology and Science Admission Test (BITSAT)	BITS Pilani	12th Pass with PCM; minimum 75% aggregate	January to March	May
VIT Engineering Entrance Examination (VITEEE)	VIT	12th Pass with PCM/Biology	November to March	April
SRM Joint Engineering Entrance Examination (SRMJEEE)	SRM Institute	12th Pass with PCM/Biology	November to March	April
Lovely Professional University National Entrance and Scholarship Test (LPUNEST)	LPU	12th Pass with PCM	October to January	January to February

Career Opportunities After Engineering Fields

After 12th, a career in engineering offers many job opportunities across industries. Some top options include:

- 1. Software Engineer (CSE/IT)** – Creates software applications and systems.
- 2. Civil Engineer (Civil)** – Designs and builds buildings, bridges, and roads.
- 3. Mechanical Engineer (Mechanical)** – Works on machines, engines, and industrial systems.
- 4. Aerospace Engineer (Aerospace)** – Designs and develops aircraft and spacecraft.
- 5. Electronics Engineer (ECE)** – Works on communication systems, circuits, and embedded devices.
- 6. Biotechnologist (Biotechnology)** – Develops medical technologies and pharmaceuticals.
- 7. IT Consultant (IT)** – Provides IT solutions for businesses and organizations.

FAQs

1. What are the eligibility criteria for engineering fields after 12th?

Eligibility: Students need 12th with Physics, Chemistry, and Math (PCM); some branches like Biotechnology may accept Biology.

2. Are there entrance exams for admission into engineering fields?

Entrance Exams: Most engineering courses require exams like JEE Main, JEE Advanced, BITSAT, VITEEE, or LPUNEST.

3. What is the duration of engineering courses after 12th?

Course Duration: B. Tech and B.E. take 4 years; integrated M.Tech takes up to 5 years.

4. What is the fee structure for these courses?

Fee Structure: Fees vary by college: government colleges are cheaper, private are higher; average yearly fees range ₹2–10 lakhs.

5. What are the best engineering fields after 12th for high-paying jobs?

High-Paying Fields: Top-paying branches include Computer Science, AI, Robotics, Data Science, and Aerospace.

Conclusion

Pursuing engineering after 12th gives students technical skills and problem-solving ability.

Fields like Computer Science, Mechanical, Civil, and Aerospace offer good career growth in technology and innovation.

CHAPTER – 17

Top Civil Engineering Courses after 12th: Diploma & Degree Options for Aspiring Engineers

[<https://www.lpu.in/blog/top-civil-engineering-courses-after-12th-diploma-degree-options-for-aspiring-engineers/>]

Civil engineering is important for building infrastructure. It offers careers in designing, constructing, and maintaining roads, bridges, and buildings. Students can join diploma or degree programs after 12th to start this career.

List of Civil Engineering Courses After 12th

Students can choose diploma or degree courses in civil engineering after 12th.

Course Name	Eligibility Criteria	Duration
B. Tech in Civil Engineering	12th Pass with Physics, Chemistry, and Mathematics (PCM); entrance exam required (JEE, state exams)	4 years
B.E. in Civil Engineering	12th Pass with PCM; qualifying entrance exam required	4 years
Diploma in Civil Engineering After 12th	12th Pass in Science or equivalent	3 years
B.Sc. in Civil Engineering	12th Pass with PCM	3 years
Civil Service Courses After 12th (Preparation for UPSC Civil Services)	12th Pass in any stream	Varies
Integrated M. Tech in Civil Engineering	12th Pass with PCM; qualifying entrance exam required	5 years

Students can choose a diploma for practical skills or a degree for deeper knowledge.

Top Institutes Offering Civil Engineering Courses After 12th in India

Many top institutes in India offer civil engineering diplomas and degree courses after 12th.

Institute Name	Civil Engineering Courses Offered	Location
Indian Institute of Technology (IIT) Bombay	B. Tech in Civil Engineering	Mumbai
Indian Institute of Technology (IIT) Delhi	B. Tech in Civil Engineering	New Delhi
Indian Institute of Technology (IIT) Kanpur	B. Tech in Civil Engineering	Kanpur
National Institute of Technology (NIT) Trichy	B. Tech in Civil Engineering	Tiruchirappalli
Vellore Institute of Technology (VIT)	B. Tech in Civil Engineering	Vellore
Lovely Professional University (LPU)	B. Tech in Civil Engineering, Diploma in Civil Engineering After 12th	Phagwara, Punjab
Delhi Technological University (DTU)	B. Tech in Civil Engineering	New Delhi
SRM Institute of Science and Technology	B. Tech in Civil Engineering	Chennai

These institutes offer quality civil engineering education after 12th.

List of Entrance Exams and Scholarships for Civil Engineering Courses After 12th

Admission to civil engineering after 12th usually needs entrance exams.

Entrance Exam Name	Conducting Body	Eligibility Criteria	Application Period	Exam Date
JEE Main	National Testing Agency (NTA)	12th Pass with PCM	November to December	January and April
JEE Advanced	IITs	Top qualifiers of JEE Main	May	June
MHT CET	State Common Entrance Test Cell, Maharashtra	12th Pass with PCM	February to March	May
LPUNEST	Lovely Professional University	12th Pass with PCM	October to January	January to February
KCET	Karnataka Examinations Authority	12th Pass with PCM	February to March	April
SRMJEEE	SRM Institute	12th Pass with PCM	November to March	April

Scholarships are also available for students based on entrance exam performance, merit, or financial need.

Career Opportunities after Civil Engineering Courses After 12th

A degree or diploma in civil engineering after 12th offers diverse career opportunities. Some prominent job roles include:

- **Civil Engineer:** Designs and manages construction projects.
- **Structural Engineer:** Designs bridges and buildings.
- **Construction Manager:** Oversees projects and timelines.
- **Environmental Engineer:** Works on eco-friendly infrastructure.
- **Geotechnical Engineer:** Studies soil and rocks for construction.
- **Urban Planner:** Plans city development and infrastructure.

For students interested in administrative roles, civil service courses after 12th can help prepare for UPSC Civil Services (IAS, IPS, IES).

FAQs

1. What are the eligibility criteria for civil engineering courses after 12th?

1. Eligibility: Students must pass 12th PCM; diploma courses may be easier to enter.

2. Which is better: a degree or a diploma in civil engineering after 12th?

2. Degree vs Diploma:

- Diploma is good for quick jobs.
- Degree offers better growth and specialization.

3. What are the best civil engineering courses after 12th?

3. Best Courses: Top options include B. Tech, Diploma, and B.Sc. in Civil Engineering

4. Are entrance exams necessary for civil engineering after 12th?

4. Entrance Exams: Yes, top colleges need entrance exams.

5. What is the duration of a diploma in civil engineering after 12th?

5. Diploma Duration: A diploma usually takes 3 years.

6. What is the fee structure for civil engineering courses after 12th?

6. Fees: Fees depend on the college type.

- Government: ₹50,000–₹1.5 lakhs per year
- Private: ₹2–₹5 lakhs per year

7. What is the scope of a career in civil engineering after 12th?

7. Career Scope: Civil engineering offers jobs in construction, planning, and government.

Conclusion

Civil engineering after 12th offers a strong career in construction and infrastructure. Diploma and B.Tech courses provide good jobs and growth, with rising demand for sustainable development.

CHAPTER – 18

Is Diploma in Mechanical Engineering (ME) the Right Course for You?

[<https://www.lpu.in/blog/is-diploma-mechanical-engineering-me-the-right-course-for-you/>]

Why Choosing the Right Diploma Course Matters?

Choosing the right diploma course is important for a good career. It helps students build useful skills, enjoy their studies, and stay motivated by matching their interests and job demand.

Importance of Diploma Selection

Choosing the right diploma course affects your learning, future jobs, and career path. A well-chosen diploma helps build a strong career foundation.

- Gives basic knowledge of the field.
- Improves jobs chances with skills.
- Saves time and money.
- Builds confidence and interest.
- Helps in higher studies and certificates.

Choosing a diploma without proper research can cause study problems and poor career options. A Mechanical Engineering diploma trains students to design, make, and maintain machines and mechanical systems.

Key highlights of a Mechanical Diploma include:

- **Core Subjects:** Engineering mechanics, machine design, thermodynamics, fluid mechanics, CAD/CAM, workshop technology.
- **Skill Development:** Problem-solving, technical drawing, hands-on machine handling, fabrication, maintenance, and quality control.
- **Practical Exposure:** Industrial training, laboratory work, real-world projects, and internships.
- **Career Opportunities:** Mechanical technician, junior engineer, machine operator, CAD designer, maintenance technician, production supervisor, and more.
- **Industry Scope:** Automotive, manufacturing, aerospace, energy, HVAC, robotics, and heavy machinery.

A Mechanical Engineering diploma gives practical skills and many job choices.

Choosing the right diploma helps match interests and leads to career success.

What Is a Diploma in Mechanical Engineering (ME)?

A Diploma in Mechanical Engineering teaches machines and practical skills after Class 10 or 12.

It prepares students for jobs and higher studies by building technical and problem-solving skills.

Who Should Consider a Diploma in Mechanical Engineering (ME)?

A Diploma in Mechanical Engineering is best for students who like practical work with machines.

It teaches skills to design, make, repair, and maintain equipment for many industries.

Core Skills You'll Develop during the Diploma Programme are—

- **Mechanical Design Skills:** Design and drawing skills.
- **Manufacturing & Production Skills:** Making, assembling, and planning work.
- **Technical Knowledge:** Core mechanical theory subjects.
- **Practical & Analytical Skills:** Problem-solving and teamwork skills.

Benefits of Pursuing a Diploma Mechanical Engineering (ME)

A Diploma in Mechanical Engineering provides practical skills, early jobs, and work in automotive, manufacturing, and energy fields.

- **Early Career Start:** Start working after Class 10 or 12.
- **Strong Practical Knowledge:** Learn through hands-on training.
- **Career Opportunities:** Many job roles are available.
- **Higher Studies Base:** Helps enter B. Tech or B.E. through lateral entry.
- **Skill Development:** Builds technical and soft skills.
- **Cost & Time Saving:** Takes less time and costs less.

Industries That Actively Hire Diploma Mechanical Engineering (ME)

A diploma in mechanical engineering gives jobs in manufacturing, automobile, and energy fields, in production, maintenance, inspection, and technical work.

- **Construction & infrastructure:** Jobs in HVAC, site work, and machine maintenance.
- **Other sectors:** Jobs in public sector, defence, robotics, and automation.
- **Overall demand:** Valued for theory plus practical skills.
- **Career scope:** Jobs in manufacturing, auto, energy, and construction.
- **Skill advantage:** Useful for production, maintenance, and supervision roles.
- **Career growth:** Prepares students for industry and future growth.
- **LPU training:** Strong practical learning with modern labs and workshops.
- **Industry exposure:** Projects, training, and internships give real experience.

Advantages of Starting a Career Early with a Diploma Qualification

- **Early jobs:** Start working sooner after 10th or 12th.
- **Practical skills:** Learn hands-on, job-ready skills.
- **Quick growth:** Gain experience faster.
- **Less time & cost:** Shorter and cheaper than a degree.
- **Industry demand:** Jobs in core technical industries.
- **Higher study option:** Can study B. Tech/B.E. later.
- **Work skills:** Builds professionalism and soft skills.

Future growth and career possibilities in Mechanical Engineering are-

Industries hiring: Jobs in many sectors like manufacturing, auto, energy, construction, and defence.

- **Emerging fields:** Growing careers in Electric Vehicles, robotics, automation, 3D printing, and clean energy.
- **Core roles:** Work in design, production, maintenance, quality, CAD, HVAC, and robotics.
- **Advanced roles:** With experience, become manager, consultant, R&D engineer, or entrepreneur.
- **Higher studies:** Options for bachelor's, master's, or PhD.
- **In-demand skills:** Design, CAD, manufacturing, automation, and problem-solving skills.
- **Career benefits:** Wide career choice, early jobs, growth, and global opportunities.

Conclusion: A diploma in mechanical engineering gives practical skills, early jobs, low cost, and options to work or study further.

Frequently Asked Questions (FAQ)

Q1: What is a Diploma Mechanical Engineering (ME)?

A. A 3-year (or 2-year lateral) course that teaches practical mechanical skills for entry-level jobs.

Q2: Do all institutes provide placement support?

A. Most good institutes offer placements, but quality depends on industry tie-ups and facilities.

Q3: Which industries hire diploma holders?

A. Jobs are available in manufacturing, maintenance, construction, energy, and small industries.

Q4: What jobs can I get after a mechanical diploma?

You can work as a technician, junior engineer, supervisor, CAD designer, or quality inspector. You can also study B. Tech for better jobs.

Q5: What subjects are taught?

You learn basics of mechanics, machines, materials, manufacturing, fluids, design, workshop, and CAD/CAM.

CHAPTER – 19

Career Paths after B.Tech. Chemical Engineering [Lateral Entry]

[<https://www.lpu.in/blog/career-paths-after-b-tech-chemical-engineering-lateral-entry/>]

B. Tech Chemical Engineering lateral entry helps diploma students build skills and work in industries like fuel, medicine, food, and fertilizers using science safely.

What is the Scope of B.Tech. Chemical Engineering [Lateral Entry] in Today's Industry?

Chemical engineering has many job options, and lateral entry students quickly gain skills to improve processes, reduce costs, and ensure safety.

Why is B.Tech. Chemical Engineering [Lateral Entry] a Smart Career Choice Today?

B. Tech Chemical Engineering lateral entry helps diploma students gain skills fast and get jobs in energy, food, medicine, and research.

Career Opportunities after B.Tech. Chemical Engineering [Lateral Entry]

Students graduating from this programme can build careers in diverse and high-demand sectors such as:

- **Process & manufacturing:** Design and improve industrial processes for safety and efficiency.
- **Food industry:** Improve food safety and large-scale food processing.
- **Petroleum industry:** Work in oil refining and petrochemicals.
- **Materials industry:** Develop advanced materials for different industries.
- **Chemical industry:** Produce fertilizers, medicines, dyes, and chemicals.
- **Plastics sector:** Create eco-friendly plastics and polymers.
- **Power production:** Work in conventional and renewable energy systems.
- **Environmental control:** Use pollution control and green technologies.
- **Waste management:** Develop eco-friendly waste treatment and recycling.
- **Research & development:** Research nanotech, biotech, and clean energy.
- **DRDO:** Work on defense materials and explosives.
- **Coal & mineral processing:** Improve extraction and refining processes.
- **Fertilizer industry:** Develop efficient fertilizers for agriculture.
- **Paints & lubricants:** Make and test paints, coatings, and lubricants.

Key Skills to Succeed in B.Tech. Chemical Engineering [Lateral Entry]

B. Tech Chemical Engineering lateral entry students need technical, communication, and teamwork skills for good jobs.

Career Options After B.Tech. Chemical Engineering [Lateral Entry]

B. Tech Chemical Engineering lateral entry offers many jobs, valued for safe process design and efficiency.

Industries Hiring Chemical Engineers

A career in the chemical industry is not limited to just one sector. Graduates can find opportunities in:

- **Oil and gas:** Work in refining, exploration, and petrochemicals.
- **Chemicals:** Make fertilizers, polymers, and specialty chemicals.
- **Pharmaceuticals:** Develop and produce medicines.
- **Food processing:** Manage food safety and quality at large scale.
- **Power and energy:** Work in thermal, renewable, and fuel systems.
- **Environmental services:** Handle pollution control and waste treatment.
- **Materials science:** Develop advanced materials and composites.
- **Biotechnology:** Work in bioprocessing, biofuels, and medical research.
- **Water treatment:** Design water purification and wastewater systems.
- **Consumer products:** Make items like detergents, cosmetics, and packaging.
- **Paints and coatings:** Produce paints, lubricants, and coatings.

Job Titles for Chemical Engineers

Graduates can pursue diverse chemical engineering career paths, with roles that combine technical expertise and leadership. Some of the most common positions include:

- **Process engineer:** Design and improve industrial processes.
- **Design / simulation engineer:** Create efficient plant designs and models.
- **R&D engineer:** Develop new products and technologies.
- **Project engineer:** Manage industrial and construction projects.
- **Safety engineer:** Ensure plant and environmental safety.
- **Environmental engineer:** Focus on sustainability and pollution control.
- **Quality control engineer:** Check and improve product quality.
- **Sales & marketing engineer:** Provide technical solutions to customers.
- **Business development executive:** Grow markets and business strategies.
- **Data analyst:** Use data to improve processes and decisions.

CHAPTER – 20

Top Architecture Colleges in India: Courses Ranking, Fees & Admission

[<https://www.lpu.in/blog/top-architecture-colleges-in-india/>]

Top architecture colleges in India include IITs, NITs, SPA Delhi, CEPT University, Sir J J College, Jamia Millia Islamia, and LPU. Admissions are through exams like JEE Main, JEE Advanced, and NATA, with LPU offering multiple entry options including LPUNEST.

Top architecture colleges in India are IITs, NITs, SPA Delhi, CEPT, Sir J J College, Jamia, and LPU. Students get admission through JEE Main, JEE Advanced, NATA, or LPUNEST.

Top Architecture Colleges in India – Ranking, Fees & Admission

Explore the top architecture colleges in India with rankings, fees, and admission details. Compare IITs, NITs, SPA Delhi, CEPT, and LPU.

Rank	College Name	Location	Approx. Annual Fee	Admission Process
1	IIT Roorkee	Uttarakhand	₹3–4 lakhs	JEE Main (Paper 2) + JoSAA
2	NIT Calicut	Kerala	₹1.5–2 lakhs	JEE Main (Paper 2)
3	IIT Kharagpur	West Bengal	₹3–4 lakhs	JEE Advanced / JEE Main
4	School of Planning & Architecture (SPA), Delhi	New Delhi	₹1.5–2 lakhs	JEE Main (Paper 2)
5	CEPT University	Ahmedabad	₹3–4 lakhs	NATA + University Test
6	Jamia Millia Islamia (JMI)	New Delhi	₹15,000–30,000	JEE Main / University Test
7	NIT Rourkela	Odisha	₹1.5–2 lakhs	JEE Main (Paper 2)
8	Sir J J College of Architecture	Mumbai	₹80,000–1lakhs	NATA + State Counseling
9	NIT Tiruchirappalli	Tamil Nadu	₹1.5–2 lakhs	JEE Main (Paper 2)
10	Lovely Professional University (LPU)	Punjab	₹2.5–3 lakhs	NATA / JEE Main / LPUNEST

Top Architecture Courses in India

Architecture courses in India are offered at UG, PG, diploma, and PhD levels. They focus on design, planning, and sustainability and are approved by the Council of Architecture (CoA).

Level	Course Name	Duration	Eligibility / Admission	Specializations / Scope
Undergraduate	<u>Bachelor of Architecture</u> (B.Arch)	5 Years	10+2 with PCM NATA / JEE Main Paper-2	Architect, Urban Designer, Interior Designer
Undergraduate	Bachelor of Planning (B.Plan)	4 Years	JEE Main Paper-2	Urban Planner, Town Planner
Postgraduate	Master of Architecture (M. Arch)	2 Years	B. Arch Degree	Sustainable Architecture, Urban Design, Landscape Architecture, Conservation, Housing & Urban Planning
Postgraduate	Master of Planning (M.Plan)	2 Years	B.Arch. / Planning Degree	Regional Planning, Transport Planning, Infrastructure Planning
Diploma	Diploma in Architecture	3 Years	10th / 12th Pass (varies by institute)	Draftsman, Site Supervisor
Certificate	Certificate Courses in Architecture	6 Months – 1 Year	Open / Institute Criteria	Interior Design, Landscape Design, BIM, Sustainable Design
Doctoral	PhD in Architecture / Planning	3–5 Years	Postgraduate Degree + Entrance / Interview	Research, Teaching, Policy Planning

Top Architecture Entrance Exams in India

Architecture admissions in India use entrance exams to test design, drawing, maths, and spatial skills.

- **NATA** – The main architecture exam for B.Arch. admission in most private and state colleges.
- **JEE Main Paper 2 (B.Arch.)** – Needed for admission to IITs, NITs, SPAs, and central institutes.
- **JEE Advanced AAT** – JEE Advanced qualifiers take this for B. Arch admission at IIT Roorkee and IIT Kharagpur.
- **LPUNEST (Architecture)** – LPU’s exam; admission also accepted through NATA or JEE Main scores.
- **Most Accepted Architecture Exams in India** – Common exams are NATA, JEE Main Paper 2, JEE Advanced AAT, LPUNEST, and state counselling; students should choose based on their target colleges.

Career Options After Architecture

Architecture graduates can work in design, planning, construction, sustainability, and teaching with many career choices.

Career Option	Description	Key Skills Required	Average Salary
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			(India)
Architect	Design and plan residential, commercial, and public buildings	Design, CAD, creativity, technical knowledge	₹3–8 LPA
Urban Planner	Plan cities, townships, and infrastructure projects	Urban design, planning, analytics	₹4–10 LPA
Interior Designer	Design functional and aesthetic interior spaces	Space planning, materials, creativity	₹3–7 LPA
Landscape Architect	Design outdoor spaces, parks, and green areas	Environmental design, planning	₹4–9 LPA
Construction Project Manager	Manage construction projects, timelines, and budgets	Project management, coordination	₹5–12 LPA
Sustainable / Green Building Consultant	Work on eco-friendly and energy-efficient buildings	Sustainability, environmental design	₹5–15 LPA
Real Estate & Infrastructure Consultant	Advise on property development and infrastructure projects	Market analysis, planning	₹6–15 LPA
Government Architect	Work in CPWD, PWD, municipal bodies, smart city projects	Public planning, compliance	₹4–10 LPA
Academic / Professor	Teach architecture in colleges and universities	Research, teaching, specialization	₹5–12 LPA
Entrepreneur / Independent Architect	Run own architecture or design firm	Business management, design, leadership	Income varies

Architecture Colleges in India – FAQ

Q1. What are the top architecture colleges in India?

A1. Top colleges include IIT Roorkee, IIT Kharagpur, NIT Calicut, SPA Delhi, Jamia, CEPT, LPU, and Manipal.

Q2. Which entrance exams are required for architecture admission in India?

A2. Admissions use NATA, JEE Main Paper-2, and LPUNEST; government colleges prefer JEE Main.

Q3. Is NATA mandatory for B. Arch admission?

A3. Yes, NATA is needed for most private/state colleges; JEE Main paper-2 is for NITs, IITs, and SPAs.

Q4. What is the eligibility for B. Arch in India?

A4. Students must pass 12th with PCM and clear an architecture entrance exam.

Q5. What is the duration of the B. Arch course?

A5. B. Arch is a 5-year full-time course.

Q6. What is the fee structure of architecture colleges in India?

A6. Government colleges charge ₹50,000–₹1.5 lakhs, NITs/IITs/SPAs charge ₹4–₹6 lakhs, and private colleges charge ₹8–₹20+ lakhs depending on the institute.

Q7. Which are the best government architecture colleges in India?

A7. Best government colleges include SPA Delhi, IIT Roorkee, IIT Kharagpur, NIT Calicut, Jamia, and VNIT.

Q8. Can I study architecture without Mathematics in Class 12?

A8. No, Mathematics in Class 12 is compulsory.

Q9. Is architecture a good career option in India?

A9. Yes, architecture offers good careers in design, planning, construction, and business.

Q10. Is drawing compulsory for architecture entrance exams?

A10. Yes, drawing and design skills are required in entrance exams.

CHAPTER – 21

Top Aerospace & Aeronautical Engineering Colleges in India 2026

[<https://www.lpu.in/blog/top-aerospace-aeronautical-engineering-colleges-in-india/>]

Top aerospace and aeronautical engineering colleges in India include IITs, NITs, government institutes, and private universities.

Top Aerospace & Aeronautical Engineering Colleges in India

India has a mix of **government, private, and IIT institutions** offering world-class education in aerospace and aeronautical fields.

Rank	College / University	Location	Programs Offered
1	IIT Bombay	Mumbai, Maharashtra	B. Tech, M. Tech Aerospace Engineering
2	IIT Kanpur	Kanpur, Uttar Pradesh	B. Tech, M. Tech Aerospace Engineering

3	IIT Madras	Chennai, Tamil Nadu	B. Tech, M. Tech Aerospace Engineering
4	IIT Kharagpur	Kharagpur, West Bengal	B. Tech, M. Tech Aerospace Engineering
5	NIT Trichy	Tiruchirappalli, Tamil Nadu	B. Tech Aeronautical Engineering
6	NIT Surathkal	Surathkal, Karnataka	B. Tech Aerospace Engineering
7	Indian Institute of Aeronautical Engineering	Dehradun, Uttarakhand	B. Tech Aeronautical Engineering, Diploma
8	HAL Training Institutes	Various Locations	Aeronautical & Aerospace Training Programs
9	Lovely Professional University (LPU)	Punjab	B. Tech, M. Tech Aerospace Engineering
10	Amity University	Noida, Uttar Pradesh	B. Tech Aeronautical, M. Tech Aerospace Engineering

Why Choose Aerospace & Aeronautical Engineering in India?

A degree in **aerospace or aeronautical engineering** builds strong technical and analytical skills for careers in high-growth industries.

Field	Career Opportunities
Aircraft Design & Manufacturing	Aeronautical Engineer, Aerospace Designer
Space Research & Satellites	Research Scientist, Flight Systems Engineer
Defense & Aviation	Defense Technology Specialist, Aerospace Engineer
Aerodynamics & Propulsion	Flight Systems Engineer, Propulsion Engineer

Top Programs in Aerospace & Aeronautical Engineering

Students can choose undergraduate and postgraduate programs tailored for aviation, defense, and space research careers.

Program	Focus Area
B. Tech Aerospace Engineering	Aircraft systems, propulsion, flight dynamics
B. Tech Aeronautical Engineering	Aerodynamics, mechanical design, aviation technology
M. Tech Aerospace Engineering	Space technology, UAVs, advanced propulsion

Admission Process for Aerospace & Aeronautical Engineering

- **Entrance Exams:** JEE Main & Advanced, state-level exams, private university tests
- **Eligibility:** 10+2 with Physics, Chemistry, and Mathematics
- **Selection:** Merit, entrance score, counselling, and interviews

Career Scope & Opportunities

- Aircraft and spacecraft design & manufacturing
- Aviation and airline industry roles
- Research careers in ISRO, DRDO, HAL
- Aerodynamics, propulsion, and robotics
- International aerospace career opportunities

Average Starting Salary: ₹4–12 LPA (varies by institute and specialization)

CHAPTER – 22

Best Biology Courses after 12th – Entrance Exams & Best Colleges in India

[<https://www.lpu.in/blog/best-biology-courses-after-12th-entrance-exams-best-colleges-in-india/>]

Choosing the right course after 12th Biology is important for becoming a doctor, researcher, or health professional.

List of Best Biology Courses after 12th in India

India offers many biology courses after 12th science, including medicine, paramedical, and research fields.

Course Name	Eligibility Criteria	Duration
MBBS (Bachelor of Medicine and Surgery)	12th Pass with PCB + NEET qualification	5.5 years
BDS (Bachelor of Dental Surgery)	12th Pass with PCB + NEET qualification	5 years
BAMS (Ayurvedic Medicine)	12th Pass with PCB + NEET	5.5 years
BHMS (Homeopathy)	12th Pass with PCB + NEET	5.5 years
B.Sc. (Biotechnology)	12th Pass with PCB	3 years
B.Sc. (Microbiology)	12th Pass with PCB	3 years

B.Sc. (Zoology/Botany)	12th Pass with PCB	3 years
B.Sc. (Nursing)	12th Pass with PCB + Entrance Exam	4 years
Bachelor of Physiotherapy (BPT)	12th Pass with PCB	4.5 years
B. Pharm (Bachelor of Pharmacy)	12th Pass with PCB	4 years
BMLT (bachelor's in medical Lab Technology)	12th Pass with PCB	3 years

Top Institutes Offering Biology Courses After 12th

Choosing the right college for biology courses after 12th is important for good studies and career success.

Institute Name	Course Offered	Location
All India Institute of Medical Sciences	MBBS, B.Sc. Nursing	New Delhi
Christian Medical College	MBBS, B.Sc. Medical courses	Vellore
Maulana Azad Medical College	MBBS	New Delhi
Armed Forces Medical College	MBBS	Pune
Kasturba Medical College	MBBS	Manipal
Banaras Hindu University	BAMS, B.Sc. Science programs	Varanasi
Jamia Hamdard University	B.Pharm, B.Sc. Life Sciences	New Delhi
Lovely Professional University (LPU)	B.Sc. Biotechnology, B.Pharm, BPT	Phagwara, Punjab
SRM Institute of Science and Technology	B.Sc. Medical, Nursing, Biotechnology	Chennai
Amity University	B.Sc. Biotechnology, Microbiology	Noida

List of Entrance Exams and Scholarships for Biology Courses After 12th

Selecting the right institute for biology after 12th is important for study and career success, and many good colleges offer these courses.

Entrance Exam Name	Conducting Body	Eligibility Criteria	Application Period	Exam Date
NEET-UG	National Testing Agency (NTA)	12th Pass with PCB	Dec to Jan	May
LPUNEST	Lovely Professional University	12th Pass with PCB	Oct to Jan	Jan to Feb
AIIMS Nursing	AIIMS	12th Pass with PCB + Entrance	March to April	June
CUET	National Testing Agency	12th Pass	Feb to March	May

Career Opportunities after Biology Courses

After finishing biology courses after 12th, you can work in healthcare, life sciences, diagnostics, and research.

• Doctor (MBBS, BDS)	• Nurse
• Pharmacist	• Physiotherapist
• Biotechnologist	• Microbiologist
• Medical Lab Technologist	• Geneticist
• Research Scientist	• Healthcare Analyst

Each biology course after 12th leads to specific jobs in hospitals, research centers, labs, pharma companies, or further studies.

CHAPTER – 23

High Salary Courses after 12th Science PCB (Biology)

[<https://www.bmu.edu.in/social/high-salary-courses-after-12th-science/>]

12th PCB students have many career options in medical and life sciences. Choosing the right course can lead to good jobs in pharmacy and biotechnology.

1. B.Sc. in Biotechnology

This B.Sc. course teaches applied biotechnology in medicine, agriculture, environment, genetics, and biochemistry, and prepares students for research careers.

Details	Information
Specialisations	Medical Biotechnology, Agricultural Biotechnology, Environmental Biotechnology
Course Duration	3 Years
Career Scope	Biotechnologist, Research Scientist, Lab Technician
Tuition Fees	INR 80,000 to INR 2,50,000 per year
Eligibility	10+2 with PCB (50%+ marks)
Average Salary	INR 4-8 L PA

2. B. Pharm (Bachelor of Pharmacy)

This pharmacy degree teaches drug science and medical chemistry. After graduation, students can work in drug production, quality control, or clinical research.

Details	Information
Specialisations	Clinical Pharmacy, Pharmaceutical Chemistry, Pharmacology

Course Duration	4 Years
Career Scope	Pharmacist, Clinical Researcher, Quality Analyst
Tuition Fees	INR 1,00,000 to INR 3,00,000 per year
Eligibility	10+2 with PCB (50%+ marks)
Average Salary	INR 4-9 L PA

3. B.Sc. in Food Science and Nutrition

B.Sc. Food Science and Nutrition teach food production, safety, and human nutrition.

Graduates work as nutritionists, dieticians, or food technologists in hospitals, food industries, and research centers.

Details	Information
Specialisations	Clinical Nutrition, Food Technology, Public Health Nutrition
Course Duration	3 Years
Career Scope	Nutritionist, Dietitian, Food Technologist
Tuition Fees	INR 50,000 to INR 2,00,000 per year
Eligibility	10+2 with PCB (50%+ marks)
Average Salary	INR 3-6 L PA

4. B.Sc. in Bioinformatics

Details	Information
Specialisations	Genomics and Proteomics, Systems Biology, Data Mining, and Pharmacogenomics.
Course Duration	3 Years
Career Scope	Bioinformatics Analyst, Data Scientist, Research Scientist
Tuition Fees	INR 1,060 to INR 13 Lakhs per year
Eligibility	10+2
Average Salary	INR 4-8 L PA

5. Bachelor of Fashion Technology (BFT)

Details	Information
Specialisations	Apparel Production Technology, Apparel Production Management, and Apparel Product Development.
Course Duration	4 Years
Career Scope	Fashion Designer, Textile Designer, Merchandiser
Tuition Fees	INR 40,000 to INR 2,70,000 per year
Eligibility	10+2
Average Salary	INR 3-6 L PA

6. Commercial Pilot Training

Details	Information
Specialisations	Commercial Pilot Training doesn't typically involve specific specializations during the initial CPL (Commercial Pilot License) program.
Course Duration	2 Years
Career Scope	Commercial Pilot, Flight Instructor, Airline Operations Manager
Tuition Fees	INR 25,00,000 to INR 35,00,000 per year
Eligibility	10+2
Average Salary	INR 10-20 L PA

CHAPTER – 24

Top Biotechnology Courses after 12th: A Gateway to Innovative Careers

[<https://www.lpu.in/blog/top-biotechnology-courses-after-12th/>]

Biotechnology mixes biology and technology and offers jobs in healthcare, agriculture, and environment.

PCB students can study B.Sc. and work in research or pharma.

Biotechnology courses after 12th and engineering programs.

List of Biotechnology Courses After 12th

Course Name	Eligibility Criteria	Duration
B.Sc. Biotechnology	12th Pass with PCB	3 years
B. Tech Biotechnology	12th Pass with PCB/PCM; qualifying entrance exam (e.g., JEE, state exams)	4 years
B.Sc. Microbiology	12th Pass with PCB	3 years
B.Sc. Genetics	12th Pass with PCB	3 years
B.Sc. Biochemistry	12th Pass with PCB	3 years
B.Sc. Bioinformatics	12th Pass with PCB	3 years
B.Sc. Biomedical Science	12th Pass with PCB	3 years
B.Sc. Biotechnology (Hons.)	12th Pass with PCB	3 years

Top Institutes Offering Biotechnology Courses after 12th in India

Many well-known institutes in India offer B.Sc. and B.Tech Biotechnology courses after 12th.

Institute Name	Biotechnology Courses Offered	Location
Indian Institute of Technology (IIT) Delhi	B.Tech Biotechnology	New Delhi
Indian Institute of Technology (IIT) Kharagpur	B.Tech Biotechnology	Kharagpur
Jawaharlal Nehru University (JNU)	B.Sc. Biotechnology	New Delhi
Delhi University (DU)	B.Sc. Biotechnology	New Delhi
Lovely Professional University (LPU)	B.Sc. Biotechnology, B. Tech Biotechnology	Phagwara, Punjab
Banaras Hindu University (BHU)	B.Sc. Biotechnology	Varanasi
Amity University	B.Sc. Biotechnology, B. Tech Biotechnology	Noida
SRM Institute of Science and Technology	B. Tech Biotechnology	Chennai

Students looking to study biotechnology after 12th PCB can explore these institutes for quality education and research opportunities.

List of Entrance Exams and Scholarships for Biotechnology Courses After 12th

Admission to biotechnology courses after 12th may require clearing certain entrance exams, as shown below.

Entrance Exam Name	Conducting Body	Eligibility Criteria	Application Period	Exam Date
JEE Main	National Testing Agency (NTA)	12th Pass with PCB/PCM	November to December	January and April
All India Biotechnology Entrance Examination (AIBTE)	Various Institutes	12th Pass with PCB	March to April	May
CUET (Common University Entrance Test)	National Testing Agency (NTA)	12th Pass with PCB	February to March	May
LPUNEST	Lovely Professional University	12th Pass with PCB	October to January	January to February
SRMJEEE	SRM Institute	12th Pass with PCB/PCM	November to March	April

Scholarships are available for students pursuing B.Sc. Biotechnology courses after 12th and B.Tech Biotechnology based on merit and entrance exam scores.

Career Opportunities in Biotechnology After 12th

A career in biotechnology after 12th offers multiple opportunities in healthcare, agriculture, pharmaceuticals, and research. Some popular career paths include:

- **Biotechnologist** – Researches and develops biological products.
- **Microbiologist** – Studies microorganisms for medical and industrial applications.
- **Genetic Engineer** – Works on genetic modifications and research.
- **Biomedical Scientist** – Develops new medical treatments and devices.
- **Bioinformatics Analyst** – Uses computational tools to analyze biological data.
- **Environmental Biotechnologist** – Works on sustainable solutions for environmental challenges.
- **Biochemical Engineer** – Develops biochemical processes in industries.

A degree in biotechnology after 12th PCB ensures a strong foundation for careers in research, development, and innovation.

FAQs

1. What are the eligibility criteria for biotechnology courses after 12th?

A. Students must complete 12th with PCB (Physics, Chemistry, Biology). Some courses need entrance exams.

2. What are the best biotechnology courses after 12th PCB?

A. Best courses are B.Sc. Biotechnology, B. Tech Biotechnology, B.Sc. Biochemistry, and B.Sc. Microbiology.

3. Are entrance exams necessary for B.Sc. Biotechnology courses after 12th?

A. Some universities need exams like CUET, LPUNEST, or JEE. Others give admission based on marks.

4. What is the duration of biotechnology courses after 12th?

A. B.Sc. Biotechnology is 3 years. B. Tech Biotechnology is 4 years.

5. What is the fee structure for biotechnology courses after 12th?

A. Fees depend on the college. Government colleges are cheaper. Private colleges charge about ₹50,000 to ₹3,00,000 per year.

6. What is the scope of a career in biotechnology after 12th?

A. Biotechnology offers jobs in pharmacy, research labs, agriculture, environment, and healthcare.

Conclusion: Studying biotechnology after 12th PCB is a good career choice for students interested in research and innovation. B.Sc. and B. Tech courses build strong biology knowledge and lead to jobs in healthcare, genetics, and sustainability.

CHAPTER – 25

Career Paths after B.Sc. Information Technology [Lateral Entry]

[<https://www.lpu.in/blog/career-paths-after-bsc-information-technology-lateral-entry/>]

The Growing Importance of IT Careers

Information Technology (IT) is important in almost every industry today. As businesses go digital, the need for skilled IT professionals is growing. IT offers many career options like software, cybersecurity, cloud, data, and AI. In the future, new technologies will create more jobs, especially for those who keep learning and adapting.

What Is B.Sc. Information Technology [Lateral Entry]?

B.Sc. IT Lateral Entry is a degree course for diploma students in IT or related fields. They can join directly in the second year, saving time. It helps them improve their qualifications, get better jobs, or study further like M.Sc., MCA, or MBA.

Understanding the Core Curriculum of B.Sc. Information Technology [Lateral Entry]

The B.Sc. IT Lateral Entry course teaches key computer skills like programming, data structures, databases, operating systems, software engineering, and web technologies. It also improves problem-solving skills and focuses on designing, developing, and maintaining systems.

Career Paths after B.Sc. Information Technology [Lateral Entry] are:

Career Role	Key Responsibilities
Software Developer	Designing, coding, testing, and maintaining software applications.
Web Developer	Creating and managing websites and web applications using frontend and backend tools.
Network Administrator	Managing and maintaining computer networks, ensuring connectivity and security.
Database Administrator (DBA)	Designing, managing, and securing databases, ensuring efficient data storage and access.
System Analyst	Analyzing system requirements, improving IT processes, and implementing solutions.
Cybersecurity Analyst	Monitoring and protecting IT systems from cyber threats and vulnerabilities.
Cloud Solutions Engineer	Managing cloud infrastructure, deployment, and services.
Mobile App Developer	Designing and developing applications for mobile devices
IT Support Engineer	Providing technical support, troubleshooting hardware/software issues.
Project Manager (IT)	Planning, coordinating, and managing IT projects.

Top Job Roles for B.Sc. Information Technology [Lateral Entry] Graduates

Graduates of B.Sc. IT Lateral Entry have many career opportunities in the IT and technology field with various in-demand job roles.

- Software Developer / Programmer** – Create and maintain software using languages like Java, Python, C++, or C#.
- Web Developer** – Build and manage websites using HTML, CSS, JavaScript, and backend tools.
- Network Administrator / Engineer** – Manage computer networks and ensure security and smooth connection.
- Database Administrator (DBA)** – Manage and protect data using systems like SQL, Oracle, or MySQL.
- System Analyst** – Study IT systems and suggest improvements to meet business needs.
- Cybersecurity Analyst** – Protect systems from cyber-attacks and improve security.
- Cloud Solutions Engineer / Administrator** – Manage cloud services using AWS, Azure, or Google Cloud.

Emerging Career Opportunities in AI, Data Science, and Cloud Computing

Careers in AI, data science, and cloud computing present thrilling opportunities in cutting-edge technological fields.

Field	Key Roles
Artificial Intelligence (AI)	AI Engineer, Machine Learning Engineer, NLP Specialist
Data Science	Data Analyst, Data Scientist, Business Intelligence Analyst
Cloud Computing	Cloud Engineer, DevOps Engineer, Cloud Architect

Government and Public Sector Opportunities for IT Graduates

IT graduates can get stable jobs in government and public sector organizations and help in national development.

Sector/Organization	Key Roles
Government Ministries	IT Officer, System Administrator
Public Sector Banks	IT Analyst, Database Administrator
Defense & Security	Cybersecurity Analyst, Network Engineer
Research & Development Organizations	Software Developer, Data Analyst
E-Governance & Digital Services	IT Consultant, Project Manager

Conclusion: Choosing a career in IT after B.Sc. IT Lateral Entry offers good career growth, high earning potential, and global opportunities.

Frequently Asked Questions (FAQs)

1. What is B.Sc. Information Technology [Lateral Entry]?

1. A bachelor's degree focused on programming, networking, databases, web development, and IT systems.

2. What are the popular specializations in B.Sc. Information Technology [Lateral Entry]?

2. Specializations include Data Science, AI, Machine Learning, Cybersecurity, Cloud Computing, and Software Development.

3. What are the career opportunities after B.Sc. Information Technology [Lateral Entry]?

3. Jobs include Software/Web Developer, Network/Cybersecurity Analyst, Data Analyst/Scientist, IT Support, and Cloud/DevOps Engineer.

4. How are placements for B.Sc. Information Technology [Lateral Entry] graduates?

4. Placements are good in top colleges, with companies like TCS, Infosys, Wipro, IBM, Accenture, Microsoft, and Amazon hiring skilled students.

5. Is B.Sc. Information Technology [Lateral Entry] better than B.Tech in IT/Computer Science?

5. B. Tech focuses on engineering and hardware, while B.Sc. IT focuses on software and practical skills for faster entry into IT jobs.

CHAPTER – 26

High Salary Courses After 12th Science PCMB (Biology & Math's)

[<https://www.bmu.edu.in/social/high-salary-courses-after-12th-science/>]

PCMB students can study both maths and biology and gain skills for high-paying jobs. They can work in healthcare, biotechnology, research, environmental science, and technology fields.

1. B. Tech in Biomedical Engineering

B. Tech in Biomedical Engineering combines medicine and engineering to improve healthcare. Students learn to design medical devices and technologies and can work as biomedical engineers in hospitals, clinics, or research.

Details	Information
Specialisations	Medical Imaging, Biomaterials, Biomechanics, Rehabilitation Engineering
Course Duration	4 Years
Career Scope	Biomedical Engineer, Clinical Engineer, Medical Device Designer
Tuition Fees	INR 1,50,000 to INR 4,00,000 per year
Eligibility	10+2 with PCMB (50%+ marks) and entrance exams like JEE Main
Average Salary	INR 5-10 L PA

High Salary Courses after 12th Science without NEET

After 12th science without NEET, students can choose high-paying courses like law, business, hospitality, and architecture. These fields offer good careers and let students use their analytical and creative skills outside research.

2. BBA LLB (Hons)

BBA LL. B (Honours) combines business and law studies to prepare students for legal careers. Graduates can work as lawyers, legal consultants, or in corporate and government jobs using both business and legal skills.

Details	Information
Specialisations	Corporate Law, International Business Law, Intellectual Property Law
Course Duration	5 Years
Career Scope	Corporate Lawyer, Legal Advisor, Consultant
Tuition Fees	INR 1,50,000 to INR 4,00,000 per year
Eligibility	10+2 with minimum 50% marks and entrance exams like CLAT, AILET
Average Salary	INR 5-12 L PA

3. Bachelor of Hotel Management (BHM)

Bachelor of Hotel Management (BHM) teaches hotel and hospitality skills with practical training. Graduates can work as hotel, event, or restaurant managers in hotels, resorts, cruise ships, and hospitality companies.

Details	Information
Specialisations	Hospitality Management, Event Management, Food and Beverage Management
Course Duration	4 Years
Career Scope	Hotel Manager, Event Planner, Restaurant Manager
Tuition Fees	INR 80,000 to INR 2,50,000 per year
Eligibility	10+2 with any stream (45%+ marks)
Average Salary	INR 3-6 L PA

4. B.Arch. - Bachelor of Architecture

Bachelor of Architecture teaches building planning and design. It prepares students to work in architectural firms and construction companies.

Details	Information
Specialisations	Urban Planning, Sustainable Architecture, Interior Design
Course Duration	5 Years
Career Scope	Architect, Urban Planner, Interior Designer
Tuition Fees	INR 1,00,000 to INR 3,50,000 per year
Eligibility	10+2 with Mathematics (50%+ marks) and entrance exams like NATA, JEE Main (Paper 2)

Average Salary	INR 4-8 L PA
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5. Bachelor of Business Administration (BBA)

Bachelor of Business Administration (BBA) teaches business, marketing, finance, and HR. Graduates can work in companies, startups, or government jobs in management and business roles.

Details	Information
Specialisations	Marketing, Finance, Human Resources, International Business
Course Duration	3 Years
Career Scope	Business Manager, Marketing Executive, HR Specialist
Tuition Fees	INR 60,000 to INR 1,50,000 per year
Eligibility	10+2 with any stream (50%+ marks)
Average Salary	INR 3-6 L PA

Conclusion: After 12th science, choosing high-paying courses like engineering, healthcare, management, or law can shape your career and financial future. Understanding your options helps you make better decisions.

FAQs

1. Which is the best course after 12th science with a high salary?

1. Engineering, medicine, data science, architecture, and management offer high-paying careers.

2. What are the best high-paying courses after Class 12th in Science Stream?

2. Top high-salary courses include B. Tech (CS), MBBS, BBA, LLB, and B.Sc. Biotechnology.

3. How much salary can the average graduate of a high-salary course after 12th grade expect to earn?

3. Starting salary can be around INR 3–15 lakhs per year, depending on the course and skills.

4. Which high-salary course is best for PCMB students?

4. PCMB students can choose Biomedical Engineering, Bioinformatics, or Agricultural Science.

5. Is it possible to opt for high-salary courses after 12th science without NEET?

5. Yes, courses like LLB, BHM, B.Arch, and BBA do not require NEET.

CHAPTER – 27

Top Agriculture Courses after 12th: Diploma & Degree Options for a Bright Future

[<https://www.lpu.in/blog/top-agriculture-courses-after-12th-diploma-degree-options-for-a-bright-future/>]

After 12th, studying agriculture offers good career opportunities in India. Students learn modern farming and business skills to find jobs or start their own agriculture ventures.

List of Agriculture Courses after 12th in India

After 12th, India offers agriculture degree and diploma courses that provide technical and scientific knowledge. The common programs are listed in a table.

Course Name	Eligibility Criteria	Duration
Bachelor of Science (B.Sc.) in Agriculture	12th Pass with Science (PCM/PCB)	4 years
Bachelor of Science (B.Sc.) in Horticulture	12th Pass with Science	4 years
Bachelor of Science (B.Sc.) in Forestry	12th Pass with Science	4 years
Bachelor of Technology (B. Tech) in Agricultural Engineering	12th Pass with PCM; qualifying entrance exam	4 years
Diploma in Agriculture After 12th	12th Pass (Science/Commerce/Arts)	2–3 years
Diploma in Horticulture	12th Pass	2 years
Diploma in Organic Farming	12th Pass	1–2 years

Top Institutes Offering Agriculture Courses After 12th

Many well-known institutions in India offer good agriculture degree and diploma courses after 12th grade.

Institute Name	Course Offered	Location
Indian Agricultural Research Institute (IARI)	B.Sc. & M.Sc. in Agriculture	New Delhi
Punjab Agricultural University (PAU)	B.Sc. in Agriculture, Diploma in Agriculture After 12th	Ludhiana, Punjab
Tamil Nadu Agriculture University (TNAU)	B. Tech in Agricultural Engineering, B.Sc. in Horticulture	Coimbatore, Tamil Nadu
Lovely Professional University (LPU)	B.Sc. in Agriculture	Phagwara, Punjab
Govind Ballabh Pant University of Agriculture & Technology	B.Sc. in Agriculture, B. Tech in Agriculture	Pantnagar, Uttarakhand

Entrance Exams & Scholarships for Agriculture Courses After 12th

Students who want to study agriculture after 12th may need to clear entrance exams, and some universities offer scholarships to deserving students.

Entrance Exam Name	Conducting Body	Eligibility Criteria	Exam Date
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Indian Council of Agricultural Research All India Entrance Examination (ICAR AIEEA)	ICAR	12th Pass with Science (PCB/PCM)	June
National Council for Hotel Management Joint Entrance Examination (NCHM JEE 2025)	NTA	12th Pass in any stream	April
Lovely Professional University National Entrance and Scholarship Test LPUNEST	LPU	12th Pass with Science (PCB/PCM)	January – February

Career Opportunities after Agriculture Study After 12th

Graduates of agriculture courses after 12th can explore diverse career paths in both the private and public sectors. Some job roles include:

- **Agricultural Scientist** – Research crops and sustainable farming methods.
- **Agronomist** – Guide farmers on soil and crop management.
- **Farm Manager** – Manage work and production on farms.
- **Horticulturist** – Grow fruits, vegetables, and plants.
- **Agricultural Engineer** – Design farm machines and irrigation systems.
- **Agribusiness Entrepreneur** – Start businesses in farming, dairy, or food processing.

FAQs

1. Which are the best agriculture courses after 12th?

1. Top courses are B.Sc. Agriculture, B.Tech Agricultural Engineering, and Diploma in Agriculture.

2. What is the duration of agriculture courses after 12th?

2. B.Sc. takes 4 years; diploma takes 1–3 years.

3. Can commerce students pursue agriculture study after 12th?

3. Yes, some diploma courses accept commerce and arts students.

4. What are the career prospects after agriculture courses?

4. Jobs are in agribusiness, research, government, or farming business.

5. How much does a diploma in agriculture cost after 12th?

5. Diploma fees are about INR 20,000 to 1,50,000 per year.

Conclusion: Agriculture courses after 12th give many career options in farming. With new technology and sustainable methods, they offer good future opportunities.

CHAPTER – 28

How Artificial Intelligence is Transforming the Healthcare Industry

[<https://www.lpu.in/blog/how-artificial-intelligence-is-transforming-the-healthcare-industry/>]

AI is changing healthcare by making it faster, more accurate, and better for patients. In India, it improves diagnosis and data management, creating better care and future career opportunities.

What is Artificial Intelligence in Healthcare?

AI in healthcare uses smart machines to help doctors make better decisions.

AI in healthcare includes various technologies:

- **Machine Learning (ML):** Learns from data to predict outcomes
- **Natural Language Processing (NLP):** Helps Computers Understand Human Language
- **Computer Vision:** Analyses medical images like X-rays and MRIs

Overall Benefit:

These tools improve care, reduce mistakes, and help doctors decide faster.

Applications for AI in Medicine:

AI is already being used in healthcare to improve care and efficiency.

AI in Diagnostics:

AI finds diseases early by analyzing medical images.

Drug Discovery and Development:

AI helps create new medicines faster and cheaper.

Personalised Treatment Plans:

AI helps doctors make treatment plans suited to each patient.

AI in Hospitals and Clinical Settings:

Hospitals use AI to help doctors, patients, and staff.

Robotic Surgeries:

AI robots assist surgeons for precise operations and faster recovery.

AI-Powered Monitoring Systems:

Smart devices track patient health and alert doctors to problems.

Virtual Health Assistants:

Chatbots help patients with appointments, symptoms, billing, and records.

Role of AI in Health Data Management:

AI makes managing health data easier and smarter.

Electronic Health Records (EHRs):

AI finds patterns in patient records to help doctors.

Predictive Analytics:

AI predicts patient outcomes and helps plan treatments.

Clinical Trials and Data Security:

AI finds trial patients fast and protects against cyber threats.

Benefits of AI in Healthcare:

- Improves accuracy
- Speeds up decisions
- Reduces costs

Challenges and Ethical Considerations:

- Keep patient data private
- Avoid bias in AI
- Need trained AI-health professionals
- Follow legal regulations

Education & Career Opportunities in AI-Powered Healthcare:

Skills in AI and healthcare are in high demand.

Study B.Tech CSE (AI & Machine Learning) at LPU:

- Specialises in medical AI and data analytics
- Hands-on healthcare projects
- Access to AI labs and industry cases
- Students solve real hospital problems with AI

Conclusion: AI is changing healthcare by detecting diseases faster, improving care, and cutting costs. Skilled professionals and courses like LPU's are needed for this growing field.

CHAPTER – 29

Top Fashion Designing Courses after 12th: Duration, Colleges, and Salary Prospects

[<https://www.lpu.in/blog/top-fashion-designing-courses-after-12th-duration-colleges-and-salary-prospects/>]

Fashion is a creative and innovative field. Fashion designing courses after 12th teach garment making, textiles, and trends for those passionate about design.

List of Fashion Designing Courses after 12th in India

After 12th, students can choose undergraduate fashion programs that cover both creative and technical skills.

Course Name	Eligibility Criteria	Duration
Bachelor of Design (B.Des.) in Fashion Design	12th Pass in any stream	4 years
B.Sc. in Fashion Design	12th Pass in any stream	3 years
B.A. in Fashion Design	12th Pass in any stream	3 years
B.Voc in Fashion Design and Garment Technology	12th Pass in any stream	3 years
Diploma in Fashion Designing	10th or 12th Pass (depending on the institute)	1-2 years
Certificate Course in Fashion Design	10th or 12th Pass	6 months–1 year

Top Institutes Offering Fashion Designing Courses After 12th

India has many top institutes offering fashion courses after 12th, giving students practical training, industry experience, and key skills for a global career.

Institute Name	Course Offered	Location
National Institute of Fashion Technology (NIFT)	B.Des. in Fashion Design	Multiple Locations
National Institute of Design (NID)	B.Des. in Textile/Fashion Design	Ahmedabad, etc.
Pearl Academy	B.A. (Hons) Fashion Design	Delhi, Mumbai
Lovely Professional University (LPU)	B.Des (Fashion)/ B.Sc. (Fashion Design)	Phagwara, Punjab
JD Institute of Fashion Technology	Diploma/B.Sc. in Fashion Design	Pan India
Vogue Institute of Art and Design	B.Sc. in Fashion and Apparel Design	Bangalore

List of Entrance Exams and Scholarships for Fashion Designing Courses After 12th

Admission to top fashion colleges usually needs entrance exams, and many offer scholarships for eligible students after 12th.

Entrance Exam Name	Conducting Body	Eligibility Criteria	Application Period	Exam Date
NIFT Entrance	National Institute of	12th Pass in any stream	November to	February

Exam	Fashion Technology		December	
NID DAT	National Institute of Design	12th Pass	October to December	January
UCEED	IIT Bombay	12th Pass with Science Stream	October to November	January
Pearl Academy Entrance	Pearl Academy	12th Pass in any stream	Multiple Cycles	Multiple Dates
LPUNEST	Lovely Professional University	12th Pass in any stream	Multiple Cycles	Ongoing

Career Opportunities After Fashion Designing Courses

Fashion courses after 12th offer careers in design, marketing, and business in the fashion and lifestyle industry.

Popular Career Roles:

• Fashion Designer	• Apparel Production Manager
• Textile Designer	• Fashion Blogger
• Fashion Illustrator	• Costume Designer (TV/Film Industry)
• Fashion Merchandiser	• Entrepreneur (Boutique/Label Owner)
• Fashion Stylist	

Skills Required for Fashion Designing Courses After 12th

To succeed in fashion courses after 12th, students need to have or build important skills.

• Technical Knowledge (Creativity and Artistic Vision)	• Visualization and Sketching Skills
• Attention to Detail	• Trend Forecasting
• Good Communication Skills	• like CAD and Pattern Making)
• Understanding of Fabrics and Textiles	• Time Management and Organizational Skills

What Can You Earn After Fashion Designing Courses?

Fashion courses after 12th boost creativity and offer good pay, with graduates from top institutes earning higher salaries as they gain experience and build their brand.

Here's a look at typical salary ranges based on different roles in the fashion world:

Job Role	Entry-Level Salary (Per Annum)	Mid-Level Salary (3–5 Years)
Fashion Designer	Rs. 3,00,000 – Rs. 5,00,000	Rs. 6,00,000 – Rs. 12,00,000
Fashion Illustrator	Rs. 2,50,000 – Rs. 4,00,000	Rs. 5,00,000 – Rs. 8,00,000
Textile Designer	Rs. 2,50,000 – Rs. 4,50,000	Rs. 5,00,000 – Rs. 9,00,000
Fashion Stylist	Rs. 3,00,000 – Rs. 6,00,000	Rs. 7,00,000 – Rs. 12,00,000
Fashion Merchandiser	Rs. 3,00,000 – Rs. 5,50,000	Rs. 6,00,000 – Rs. 10,00,000
Costume Designer (TV/Film)	Rs. 4,00,000 – Rs. 6,00,000	Rs. 8,00,000 – Rs. 15,00,000
Fashion Entrepreneur	Highly Variable	Potentially Unlimited

Rising fashion demand creates chances to work with luxury brands, Bollywood, and online stores, while freelancing and personal labels offer profitable options.

FAQs

Q1. What are the eligibility criteria for fashion designing courses after 12th?

A. Passed 12th in any stream; some institutes have entrance tests.

Q2. Are there entrance exams for fashion designing courses after 12th?

A. Yes, top institutes require exams like NIFT, NID, and Pearl Academy Test.

Q3. What is the duration of fashion design courses after 12th?

A. UG degrees: 3–4 years; diploma/certificate: 6 months–2 years.

Q4. What is the average fee for fashion designing courses after 12th?

A. Rs. 50,000 to Rs. 4,00,000 per year, depending on course and institute.

Q5. Is fashion designing a good career in India?

A. Fashion designing is a good career with growth and opportunities.

CHAPTER – 30

ARTS COURSES

List of Top Courses after 12th for Arts Students

<https://www.lpu.in/blog/list-of-top-courses-after-12th-for-arts-students/>

List of Courses after 12th Arts in India

Arts students have many study options after 12th based on their interests. The table below shows the top courses they can choose.

Course Name	Eligibility Criteria	Duration
Bachelor of Arts (BA) – General & Honours	12th Pass in any stream	3 years

Bachelor of Business Administration (BBA)	12th Pass in any stream	3 years
Bachelor of Fine Arts (BFA)	12th Pass in any stream	3-4 years
Bachelor of Journalism and Mass Communication (BJMC)	12th Pass in any stream	3 years
Bachelor of Social Work (BSW)	12th Pass in any stream	3 years
Bachelor of Hotel Management (BHM)	12th Pass in any stream	3-4 years
Bachelor of Fashion Design (BFD)	12th Pass in any stream	3-4 years
Bachelor of Event Management (BEM)	12th Pass in any stream	3 years
Bachelor of Law (LLB) – Integrated 5-Year Program	12th Pass in any stream	5 years
Bachelor of Design (B. Des)	12th Pass in any stream	4 years
Diploma in Digital Marketing	12th Pass in any stream	6 months – 1 yr
Diploma in Photography	12th Pass in any stream	6 months – 1 yr

Arts students can pick traditional degrees or professional diplomas based on their career goals.

Top Institutes Offering Courses after 12th Arts in India

Many top institutes in India offer the best courses after 12th arts for various careers.

Institute Name	Courses Offered	Location
Delhi University (DU)	BA, BJMC, BFA, BSW, LLB	New Delhi
Jawaharlal Nehru University (JNU)	BA (Honours), Social Sciences	New Delhi
Symbiosis International University	BA, BBA, BJMC, B. Des	Pune
Lovely Professional University (LPU)	BA, BBA, BHMCT, BFA, BPA, B. Des, BFD	Phagwara, Punjab
National Institute of Fashion Technology (NIFT)	B. Des, Fashion Design	Multiple Locations
Film and Television Institute of India (FTII)	Diploma in Filmmaking, Photography	Pune
Jamia Millia Islamia (JMI)	BJMC, BA, Social Work, LLB	New Delhi
Christ University	BA, BBA, BJMC, BSW	Bangalore

These institutes offer the most popular courses in India for students after 12th arts.

Entrance Exams and Scholarships for Courses after 12th Arts

Some arts courses need entrance exams for admission. Here's a table of important tests:

Entrance Exam Name	Conducting Body	Courses Covered	Application Period	Exam Date
CUET (Common University Entrance Test)	National Testing Agency (NTA)	BA, BBA, BSW, BFA	February to March	May
CLAT (Common Law Admission Test)	Consortium of NLUs	LLB (5-Year Integrated)	August to November	December
NIFT Entrance Exam	NIFT	B.Des, Fashion Design	November to January	February
LPUNEST	Lovely Professional University	BA, BBA, BHM, BFA, B.Des	October to January	January to February
Symbiosis Entrance Test (SET)	Symbiosis University	BBA, BJMC, BA	January to April	May
DUET (Delhi University Entrance Test)	Delhi University	BA (Honours), BJMC	March to May	June

Career Opportunities After Arts Courses:

- **Journalist:** Works in media and news.
- **Graphic Designer:** Creates visual content for marketing and media.
- **Hotel Manager:** Manages hotels and customer service.
- **Social Worker:** Helps in NGOs and community welfare.
- **Event Manager:** Plans and organizes events.
- **Fashion Designer:** Works in clothing and textile industry.
- **Lawyer:** Provides legal help and represents in court.
- **Digital Marketer:** Manages online marketing and brands.

Overall: Choosing the right arts course opens many career options.

FAQs

1. What are the best courses after 12th arts for high-paying jobs?

1. High-paying courses include LLB, BBA, Digital Marketing, BJMC, and Fashion Design.

2. Can I pursue an MBA after completing courses for arts students?

2. Yes, arts graduates like BA or BBA can do an MBA.

3. What are the diploma options in the after-12th arts courses list?

3. Diploma options include Photography, Digital Marketing, Interior Design, and Event Management.

4. Is it necessary to clear up entrance exams for arts courses?

4. Some courses need entrance exams, while others give admission based on merit.

5. What are the top universities for arts students in India?

5. Top universities include DU, JNU, Symbiosis, LPU, Christ University, and Jamia Millia Islamia.

6. Can I do civil services after choosing courses after 12th arts?

6. Yes, BA in subjects like Political Science or History helps in UPSC preparation.

7. Which course is best after 12th arts for creativity?

7. Creative students can choose BFA, BJMC, Fashion Design, or Graphic Design.

8. What is the scope of a career after 12th arts?

8. Arts students can build careers in Media, Law, Design, Business, Hospitality, or Government jobs.

Conclusion: After 12th arts, students can choose courses in law, media, fashion, business, and social sciences. They can select options based on their interests and build successful and satisfying careers.

CHAPTER – 31

Top Career Options after 12th Science: What Course to Do After 12th Science

[<https://www.upgrad.com/blog/career-options-after-12th-science/>]

Explore Top Courses and Career Paths after 12th Science

12th Science students should carefully choose courses based on PCM or PCB to plan their future.

1. Information Technology and Computer Science

IT and Computer Science offer many job opportunities and are growing quickly.

Specializations:

- **B.Sc. IT** – Studies IT systems and networking. Jobs: System admin, IT manager.
- **B.Sc. Computer Science** – Studies programming and algorithms. Jobs: Software developer, AI roles.
- **B.Sc. AI & ML** – Studies artificial intelligence and machine learning. Jobs: AI developer, Automation expert.
- **B.Sc. Cybersecurity** – Studies system security and cyber protection. Jobs: Ethical hacker, Security expert.
- **B.Sc. Cloud Computing** – Studies cloud systems and data handling. Jobs: Cloud architect, IT consultant.

Course Duration:

- All courses are 3 years.

Entry Requirements:

- Must pass 12th with Maths or Computer Science.
- Admission is mostly merit-based; some colleges have entrance exams.

Career Outcomes:

Specialization	Career Path	Av. Salary PA
B.Sc. IT	IT Manager, Network Administrator, Systems Analyst	₹5-9 L
B.Sc. Computer Science	Programmer, Database Manager, System Analyst	₹5-10 L
B.Sc. AI & ML	AI Engineer, Machine Learning Developer	₹7-15 L
B.Sc. Cybersecurity	Cybersecurity Analyst, Ethical Hacker, Security Consultant	₹5-12 L
B.Sc. Cloud Computing	Cloud Architect, Cloud Systems Engineer	₹6-14 L

2. Physical and Biological Sciences

Students study physics, chemistry, maths, Earth, and living things for research careers.

Physical Sciences Specializations

- **B.Sc. Physics** – Studies energy and quantum topics. Jobs in research, teaching, space, and energy.
- **B.Sc. Chemistry** – Studies organic and inorganic chemistry. Jobs in pharma, industries, and labs.
- **B.Sc. Mathematics** – Studies pure and applied maths. Jobs in data science, finance, analytics, and teaching.
- **B.Sc. Geology** – Studies Earth and minerals. Jobs in mining, oil and gas, and environment.
- **B.Sc. Environmental Science** – Studies environment and sustainability. Jobs in NGOs and research.
- **B.Sc. Astronomy & Astrophysics** – Studies space and stars. Jobs in space research and observatories.

Biological Sciences Specializations

- **B.Sc. Biology** – Studies cells and genetics. Jobs in healthcare and biotech.
- **B.Sc. Biotechnology** – Combines biology and technology. Jobs in pharma and agriculture.
- **B.Sc. Microbiology** – Studies microorganisms. Jobs in healthcare and food safety.
- **B.Sc. Zoology** – Studies animals. Jobs in wildlife and research.
- **B.Sc. Botany** – Studies plants. Jobs in agriculture and environment.
- **B.Sc. Genetics** – Studies genes. Jobs in medical research and biotech.

Course Duration

- All courses are usually 3 years.

Entry Requirements

- Must pass 12th Science with required subjects.
- Physics & Maths needed for physical sciences.

- Biology needed for biological sciences.
- Admission mostly based on merit; some colleges have entrance exams.

Career Outcomes:

Specialization	Career Path	Average Salary PA
B.Sc. Mathematics	Data Analyst, Statistician, Financial Analyst	₹5-10 L
B.Sc. Geology	Geologist, Environmental Consultant, Mining Engineer	₹6-12 L
B.Sc. Env. Science	Environmental Scientist, Policy Maker, Conservationist	₹4-8 L
B.Sc. Biotechnology	Biotechnologist, Research Scientist, Lab Technician	₹4-9 L
B.Sc. Microbiology	Microbiologist, Healthcare Analyst, Food Safety Officer	₹4-8 L
B.Sc. Zoology	Wildlife Biologist, Conservationist, Research Scientist	₹4-7 L
B.Sc. Botany	Plant Biologist, Agricultural Scientist, Ecologist	₹4-7 L
B.Sc. Genetics	Genetic Counselor, Researcher, Biotechnologist	₹5-10 L

3. Architecture and Design

Architecture and design combine creativity and technical skills to plan buildings and cities.

Bachelor of Architecture (B.Arch.) and Related Fields

- **B.Arch.** – Studies building design and construction. Focuses on strong and attractive buildings.
- **Interior Design** – Designs indoor spaces for comfort and beauty. Works in homes and offices.
- **Urban Planning** – Plans city growth, transport, and infrastructure. Improves community life.

Course Overview

- **B.Arch.** – 5 years; includes theory and practical projects.
- **Interior Design** – 3–4 years; studies space, lighting, and materials.
- **Urban Planning** – 4 years; focuses on sustainable city development.

Entry Requirements

- **B.Arch.** – Must pass 12th with Physics, Chemistry, and Maths.
- Entrance exams: **National Aptitude Test in Architecture (NATA)** and **Joint Entrance Examination Paper 2**.
- **Interior Design** – Any stream can apply; some colleges need an entrance exam or portfolio.

Career Outcomes:

Field	Career Path	Average Salary (INR) PA
Architecture (B.Arch.)	Architect, Urban Planner, Construction Manager	₹4-10 L
Interior Design	Interior Designer, Space Planner, Consultant	₹3-7 L
Urban Planning	Urban Planner, City Development Consultant	₹5-9 L

4. Environmental Sciences and Agriculture

This field focuses on protecting nature and improving farming.

Courses

- **B.Sc. Environmental Science (3 years)** – Studies pollution and conservation. Jobs in environmental protection and research.
- **B.Sc. Agriculture (4 years)** – Studies crops, soil, and farming. Jobs in farm management and food production.
- **Marine Biology (3–4 years)** – Studies ocean life and ecosystems. Focuses on saving marine life and reducing pollution.

Entry Requirements

- Must pass 12th with Physics, Chemistry, and Biology.
- Agriculture usually requires **ICAR All India Entrance Examination for Admission (ICAR AIEEA)**.
- Environmental and Marine courses may need university entrance exams.

Career Outcomes:

Specialization	Career Path	Av. Salary PA
B.Sc. Env. Science	Environmental Scientist, Sustainability Consultant	₹4-8 L
B.Sc. Agriculture	Agricultural Scientist, Agronomist, Farm Manager	₹4-7 L
Marine Biology	Marine Biologist, Oceanographer, Environmental Consultant	₹5-9 L

5. Interdisciplinary and Alternative Career Paths

Science students can choose creative and business careers like journalism, psychology, hotel management, or entrepreneurship.

Unique Career Paths

- **Journalism (3 years)** – Studies media and communication. Jobs as reporter, editor, or content creator.
- **Psychology (3 years)** – Studies human behavior. Jobs in counseling, clinics, schools, or companies.
- **Hotel Management (3–4 years)** – Studies hospitality and management. Jobs in hotels and tourism.
- **Entrepreneurship (3–4 years)** – Studies business and innovation. Helps start and manage a business.

Entry Requirements

- **Journalism** – Open to any stream; some colleges need exams or interviews.
- **Psychology** – Open to all streams; science students may get an advantage.

• **Hotel Management** – Open to any stream; often requires **National Council for Hotel Management Joint Entrance Examination (NCHMCT JEE)**.

• **Entrepreneurship** – Open to any stream; admission based on merit or entrance exam.

Career Outcomes:

Specialization	Career Path	Average Salary (INR)PA
Journalism	Reporter, Content Writer, Editor	₹3-7 L
Psychology	Clinical Psychologist, Counselor, HR Specialist	₹2-5 L
Hotel Management	Hotel Manager, Event Manager, Hospitality Consultant	₹4-8 L
Entrepreneurship	Business Owner, Startup Founder, Business Consultant	Varied (based on business growth)

Engineering: Needs problem-solving skills, strong maths, and teamwork.

Medical and Health Sciences: Needs focus, empathy, and hard work.

IT and Computer Science: Needs analytical thinking and fast problem-solving.

Data Science: Needs interest in numbers, coding skills, and curiosity.

Architecture and Design: Needs creativity, visual skills, and time management.

Environmental Sciences and Agriculture: Needs love for nature, problem-solving, and fieldwork comfort.

Journalism and Mass Communication: Needs good communication, curiosity, and deadline management.

Tips for the Right Course After 12th

Explore career options, check course requirements, and talk to counselors. Choose a good college, gain practical experience, and follow your passion for success.

New Age Career Options for Biology students

Sports Physiotherapy	Health care management
Health tourism	Dietician
Biomedical engineering	Biotechnologist
Bioinformatics	Neuroinformatics
Cognitive Neuroscience	Optometry
Audiology	Clinical research
Hospital Management	Bachelor of Naturopathy & Yogic Science
Environmental Science and Sustainable Development	

India needs more doctors, paramedics, and nurses, as the doctor-patient ratio is 1:1700, lower than the WHO’s 1:1000 standard. These careers offer good job opportunities and personal and professional growth.

Vocational Courses after 12th Science

B. Vocational Aircraft Maintenance: Focuses on aircraft repair, safety, and rules. Leads to jobs in the aviation industry.

B. Vocational Automobile Servicing Technology: Teaches car maintenance, fault checking, and repair skills with practical training.

B. Vocational Food Processing Technology: Studies food science, food safety, and food processing methods.

B. Vocational Media Production: Teaches video production, multimedia content creation, and digital storytelling.

CHAPTER – 32

The major divisions are Science, Commerce, and Humanities, each offering different career options.

How Do I Choose a Career After My 12th Grade Results?

Here is the list of career options after the 12th.

1. Architect	2. Actor	3. Animator	4. Army-Officer	5. Astronaut
6. Banker	7. Chef	8. Dancer	9. Doctor	10. Engineer
11. Fashion Designer	12. Journalist	13. Lawyer	14. MBA	15. Pilot
16. Criminologist	17. Media	18. Journalism	19. Teacher	20. Scientist
21. Sports	22. Veterinarian	23. Writer		

List of Career Options after 12th in Humanities

Humanities or Arts is a good choice for students interested in social sciences. It offers many career options after 12th. Some new and growing career options are listed below.

1. Fashion Designing	2. Hotel Management	3. Product Design	4. Shoe Designing	5. Ethnography
6. Depression Counselling	7. Bakery and Confectionery	8. Leather Designing	9. Graphology	

Popular Careers in Humanities

Mass Communication and Journalism

India offers many mass communication courses like print media, electronic media, radio, advertising, animation, web designing, media research, and digital media. Digital media is now a major field for jobs.

1. Anchor	2. News Reporter	3. Professor	4. Writer
5. Video Editor	6. TV Producer	7. Radio Producer	8. Photojournalist

Law: Law is a popular course after 12th. Top universities offer it with subjects like Labour Law, Business Law, Corporate Law, Criminal Law, Cyber Law, and Environmental Law.

Some of the core job profiles in law include:

Judges	Litigators
Corporate Lawyers	Compliance Analyst
Arbitrator	Lawyer
Law Researcher	Professor

Popular Career Options after 12th in Science: 12th Science is considered the toughest stream. It offers high-paying careers like MBBS, Engineering, Dentistry, and Architecture.

Let's have a look at some of the promising career options after 12th in the Science stream:

Sound Engineering	Biotechnology	Career in Aviation
Oceanography	Biochemistry	Forensic Science
Cell Therapy	Genetic Engineering	Paediatrics

Some of the popular Engineering courses are:

Civil Engineers	Aerospace Engineers	Computer Engineers
Electrical Engineers	Automobile Engineers	Nuclear engineers

Popular Career Options after 12th in Commerce

Commerce offers high-paying career options through UG and PG courses. Courses like B.Com and Integrated Law are considered among the highest salary options for commerce students.

Let's take a look at the popular career options you can expect in the Commerce stream;

Corporate Entrepreneurship	Financial Markets	Strategic Management
Organisational Behaviour	Corporate Communication	Material Management
Managerial Economics	Engineering Management	Financial Management

Banking: Professional bankers with credible degrees are in high demand, with banking becoming a top career option for commerce students after 12th, with multinational banks contributing significantly to job recruitment.

Accountancy: Accountancy is a lucrative career option after 12th grade, offering advanced certificate courses like ICWA, CFA, and CA enabling professionals to handle accounts in various organizations.

Best Career after 12th Commerce

Career	Starting Salary* (per annum)
Accountant	Rs. 1.3 Lakhs to Rs. 5.8 lakhs
Financial Analyst and Advisor	Rs. 2 lakhs to Rs. 10 lakhs
Investment Banking Analyst	Rs. 3 lakhs to Rs. 10 lakhs
Chartered Accountant	Rs. 4 lakhs to Rs. 20 lakhs
Company Secretary	Rs. 4 lakhs to Rs. 20 lakhs
Human Resources	Rs. 3 lakhs to Rs. 10 lakhs
Tax Auditor and Consultant	Rs. 2.3 lakhs to Rs. 10 lakhs
Event Manager	Rs. 2 lakhs to Rs. 8 lakhs
Government Jobs/Banking Jobs	Rs. 3 lakhs to Rs. 5 lakhs
Entrepreneur	Rs. 2 lakhs to Rs. 10 lakhs

List of Unique Career Options & Salary

Below is tabulated information on the course with their duration & salary for fresher's:

Course Name	Duration	Salary for Fresher's
Law Courses	3 years/5 years	5 – 7 lakhs
Animation & Multimedia	1 year/3 year	2 – 3 lakhs
Fashion Technology	1/2/3 years	2 – 3 lakhs
Visual Arts	1/2/3 years	2 – 3 lakhs
Literary Arts	1/2/3 years	2 – 3 lakhs
Performing Arts	1/2/3 years	2 – 3 lakhs
Aviation & Hospitality Management	1 year/3 year	2 – 5 lakhs
Hotel Management & Catering	1 year/3 year	2 – 5 lakhs
Film Mass Comm	1 year/3 year	2 – 4 lakhs
Languages	3 years	2 – 6 lakhs
Bachelor of Arts	3 years	2 – 4 lakhs

PART –2JOBS

CHAPTER -- 33

Jobs After 12th (All Streams): Government and Private jobs

[<https://www.geeksforgeeks.org/jobs-after-12th/>]

After 12th, many students feel confused about career choices in banking, technology, commerce, and medicine. They should choose a field based on their interest and future opportunities. Students can do part-time jobs like data entry, web designing, and blogging to earn money and gain experience. After 12th, students can apply for many government and private sector exams.

Best Jobs after 12th In India

The following is the list of Best Jobs options after completing the 12th class (for all streams):

Jobs in Different Sector	Eligibility for Jobs	Jobs Career options
Healthcare	12th pass with science stream (PCB or PCMB)	Nurse, Medical Lab Technician, Pharmacist, Physiotherapist, Dental Hygienist
Information Technology	12th pass with any stream	Web Developer, Software Tester, Data Entry Operator, Graphic Designer
Business and Finance	12th pass with commerce stream	Accountant, Bank Teller, Sales Representative, Customer Service Representative
Creative and Media	12th pass with any stream	Content Writer, Graphic Designer, Photographer, Video Editor
Government and Public Sector	12th pass with any stream	Police Officer, Firefighter, Postal Worker, Railway Employee
Indian Army	12th pass with any stream	Soldier General Duty, Soldier Technical, Soldier Clerk.
Forest Department	12th pass with any stream	Forest guards, Foresters and Forest drivers.
Merchant Navy	12th pass with any stream	General purpose rating, Sailors, Chefs.
Sales & Marketing	12th pass with any stream	Customer support executive, Sales executive, Digital Marketer.
Photography	12th pass with any stream	Wedding Photographer, Wildlife Photographer, Fashion Photographer.
Data Entry Job	10 +2 Commerce/any stream	Accounts clerk, Office administrator, Project supervisor officers.

List of Government Jobs After 12th: Government jobs in India are respected and highly demanded because they offer job security and good social status. Many students want these stable and well-paying jobs for a secure career.

Here we have listed the **best Government Jobs After 12th** with conducting bodies and Eligibility:

Job Title	Conducting Body	Eligibility
SSC CHSL (Combined Higher Secondary Level)	<u>Staff Selection Commission (SSC)</u>	12th pass from a recognized board
SSC Stenographer	Staff Selection Commission (SSC)	12th pass from a recognized board with typing speed of 80 wpm in English or 65 wpm in Hindi
SSC MTS (Multi Tasking Staff)	Staff Selection Commission (SSC)	12th pass from a recognized board
RRB NTPC (Non-Technical Popular Categories)	<u>Railway Recruitment Board (RRB)</u>	12th pass from a recognized board
Indian Airforce	Air Force Selection Board, All the Medical and Physical Tests are conducted.	<ul style="list-style-type: none"> • 50% in class 12 from recognised board • Must be a citizen of India
Railway Group D	Railway Recruitment Board (RRB)	12th pass from a recognized board
NDA (National Defense Academy)	<u>Union Public Service Commission (UPSC)</u>	12th pass from a recognized board with Physics and Mathematics as compulsory subjects
Police Constable	State Police Departments	12th pass from a recognized board
Railway Constable	RPF Constable Exam	Class 12 or equivalent

CHAPTER – 34

Government Jobs After 12th

[<https://prepp.in/government-jobs-after-12-th-articleid-5437>]

After 12th, students can apply for government jobs like RRB ALP, SSC CHSL, SSC MTS, SSC Stenographer, SSC GD, and Indian Coast Guard. You must have a 12th pass certificate to apply. These exams usually include General Awareness, Reasoning, Maths, and English. For full details, candidates should check the official exam websites.

SSC Government Jobs After 12th

The Staff Selection Commission (SSC) is a Government of India body that recruits staff for ministries, departments, and subordinate offices. After 12th, students can apply for exams like SSC CHSL, SSC Stenographer, SSC Clerk, and other SSC exams.

Government Jobs After 12th

After 12th, students can apply for government jobs like RRB ALP, SSC CHSL, SSC MTS, SSC Stenographer, SSC GD, and Indian Coast Guard. A 12th pass certificate is required. Government exams usually include General Awareness, Reasoning, Maths, and English. Full details are available on official websites.

The Staff Selection Commission (SSC) hires staff for government ministries and departments. After 12th, students can apply for SSC exams like CHSL, Stenographer, Clerk,

Name of the Exam	Government Post	PayScale	Grade Pay
SSC CHSL (Combined Higher Secondary Level)	Lower Divisional Clerk (LDC)	Rs. 19,900 to 63,200	Rs. 1900 (pre-revised)
	Junior Secretariat Assistant (JSA),	Rs. 19,900 to 63,200	Rs. 1900 (pre-revised)
	Postal Assistant/ Sorting Assistant	Rs. 25,500 to 81,000	Rs. 2400 (pre-revised)
	Data Entry Operator (DEO)	Rs. 29,200 to 92,300	Rs. 2400 (pre-revised)
SSC Stenographer Exams	Stenographer Grade C	Pay Scale – Rs. 9300-34,800 (Initial Salary- 5200)	Rs. 4200 or 4600 (pay grade 2) Basic Salary- Rs. 14,500
	Stenographer Salary D	Pay Scale- Rs. 5200-20,200 (Initial Salary- 5200)	Rs. 2400 (Pay grade 1) Basic Salary- Rs. 7600
SSC-MTS (Multi- Tasking Staff)	Multi-Tasking Non-technical Staff	Basic Salary- Rs.18000	–
	Personnel for BSF, CISF, ITBP, CRPF, Rifleman, etc	Basic Salary- Rs. 21,700	–

Indian Railways Jobs After 12th

The Indian Railways offer a variety of government positions with decent incomes after completing the 12th grade. The following is a list of well-known railway jobs:

Name of the Exam	Government Post	Age Limit	Locations	Salary
RRB NTPC	Trains Clerk	18-30 years	All over India	Level 2 - 7th CPC
Ticket Clerk		18-30 years	All over India	Level 3 - 7th CPC
Accounts Clerk cum Typist		18-30 years	All over India	Level 2 - 7th CPC
Junior Time Keeper		18-30 years	All over India	Level 2 - 7th CPC
RRB ALP	Assistant Loco Pilot	18-30 years	All over India	Level 2 - 7th CPC
Technicians		18-30 years	All over India	Level 2 - 7th CPC
SER Recruitment	Commercial Cum Ticket Clerk Typist	18-42 years	All over India	Payscale 5200-20200

Defence Jobs After 12th

After completing 12th, candidates can apply to the three branches of the Indian Armed Forces for different jobs. Eligibility rules depend on the post and level of the job.

Name of the Exam	Government Post	Age limit	Job Location	Salary
Indian Navy 10+2 Cadet Entry Scheme(PC)	Cadet	As per the rules of the Indian Navy	Across India	As per the rules of the Indian-Navy
Indian- Navy Sailor(AA & SSR) Recruitment	AA & SSR	Born between 01st Feb 2002 to 31st Jan 2005.	Across India	Rs. 5200-20200/-
CISF Head Constable(General Duty) Recruitment	Head Constable	18-23 Years	Across India	Rs. 25,500-81,100/-

UPSC NDA & NA Exam	NDA & NA	18-23 Years	Across India	As per the 7th Pay Commission
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PSU Government Jobs After 12th:

Various government positions are available at PSUs due to the requirement to change them into profit-making enterprises:

Name of the Exam	Government Post	Age Limit: Minimum	Age Limit: Maximum	Salary
Indian Oil Ltd	Junior Assistant (Computer operator cum Clerk)	18 years	35 Years (SC/ST)	Rs. 26,600 – 90,000
<u>Indian Oil Corporation Ltd.</u>	Trade Apprentice (Data Entry Operator) Trade Apprentice (Retail Sales Assistant)	18 years	24 years	As per Apprentice Act 1961/1973
DRDO ITR Apprentice	<ul style="list-style-type: none"> • Machinist • Fitter • Computer Operator Programming • Draughtsman • Painter • Plumber • Welder 	Below 28 Years	Across India	Rs. 7,700

Government Jobs in State Police After 12th

Candidates with a 12th-grade certificate can work for the state police as Constables, Sub Inspectors, or Reserved Armed Police.

Name of the Exam	Government Posts	Age Limit	Job Location	Salary
<u>Andhra Pradesh Police Civil Constable Recruitment</u>	Constable	18-30 Years	Andhra Pradesh	Constable Salary: Rs. 21700/- Gross Salary: Rs.30,000 – 40,000/
<u>Andhra Pradesh Police Recruitment</u>	Sub Inspector	18-27 Years	Andhra Pradesh	Sub-Inspector Salary: Rs 35400/- Gross Salary: Rs. 49,000 – 64,000/-
<u>Delhi Police Recruitment</u>	Constable	18-25 Years	Delhi NCR	Rs. 69100.
Maharashtra Police Recruitment	Constable Driver	18-28 Years	Maharashtra	Level 2-7th CPC
	SRPF Armed Police Constable	18-25 Years		
<u>UP Police Constable</u>	Reserved Civil Police	General (male): 18-22 General (female): 18-25 OBC/SC/ST (Male): 18-28 OBC/SC/ST (Female): 18-31	Uttar Pradesh	Rs.5200- 20,200
	Reserved Armed Police Constable	-		
Haryana Police Recruitment	Constable	18-25 Years	Haryana	Rs. 21,700-Rs. 69,100/-
Odisha Civil Constable Recruitment	Civil Constable	18-23 Years	Odisha	Rs. 5,200 - 20,200/-
Odisha Sepoy Constable Recruitment	Sepoy Constable	18-25 Years	Odisha	As per the 7th Pay Commission

Goa Police Recruitment	Sub Inspector	20-28 Years	Goa	INR 35,400/- to INR 1,12,400/-
	Police Constable Driver	18-25 Years	Goa	INR 19900-63200

State Government Jobs After 12th

The list of the examinations and the many positions available are below. Candidates can apply for the position depending on their desire to work for the state government.

Name of the Exam	Government Posts	Age Limit	Job Location	Salary
West Bengal D.El.Ed Exam	Elementary Education	Below 35 Years	West Bengal	Rs. 31, 791 per month
WCD Maharashtra Recruitment	Supervisor	18-45 Years	Maharashtra	Rs. 5,200 - 20,000/-
	Helper			
	Worker			
Rajasthan Group D & High Court Driver	Group D & High Court Driver	18-40 Years	Rajasthan	Rs. 220800 - 65900/-) + 2400 grade pay
Chattisgarh Patwari	Patwari	18-35 Years	Chattisgarh	Rs. 5,200-20,200/-
HSSC Patwari	Canal Patwari	18-42 Years	Haryana	Rs. 28000/- to INR 32000/- per month.
MP Patwari	Patwari	18-40 Years	Madhya Pradesh	Basic Pay Rs. 5200 - 20,200 Salary Per Month Rs. 20,800
Rajasthan Patwari	Patwari	18-40 Years	Rajasthan	In-hand Salary: Rs 24380
Himachal Pradesh Patwari	Patwari	18-45 Years	Himachal	Rs. 10,300 - 34,800/-
BPSC LDC	Lower Division Clerk	18-42 Years	Bihar	Rs. 19,900 - 63200/-
OSSSC Statistical Field Surveyor Recruitment	Statistical Field Surveyor	21 - 32 Years	Odisha	Rs 18000
Uttar Pradesh DEO Recruitment	Panchayat Sahayak Cum Data Entry Operator	18 to 40 Years	Uttar Pradesh	Rs. 6000/-
UPSSSC Junior Assistant Recruitment	Junior Assistant	18 to 40 Years	Uttar Pradesh	Rs. 5,200 - 20,200
OSSC Junior Assistant Recruitment	Junior Assistant	21-32 Years	Odisha	Rs. 13,300 per month for the 1st Year
UKSSSC Forest Guard Recruitment	Forest Guard	18-28 Years	Uttarakhand	Rs.21,700 - Rs.69,100/-

Banking Government Jobs After 12th

The following is the exam that a candidate in the 12th grade can take to work in this field:

Name of the exam	Government Posts	Age Limit: Minimum	Age Limit: Maximum	Job Location
South Indian Bank Recruitment	PO (Probationary Officers)	18 Years	26 Years	All Over India
	Probationary Clerks	18 Years	26 Years	All Over India
ESIC	MTS Stenographer	18 Years	25 Years	All Over India
State Cooperative Bank (Manipur State Co-Operative)	MTS	18 Years	38 years	All Over India

Conclusion: When applying for Government Recruitment, candidates should monitor important dates and ensure they meet the eligibility criteria regarding nationality, age, and educational qualifications for online applications.

FAQs

Government Jobs after 12th FAQs

Q. What is the minimum qualification required to apply for government job exams?

Ans. Minimum qualification is a 12th pass certificate. It may vary depending on the job and post.

Q. What are the most common subjects included in the government job syllabus after the 12th grade?

Ans: Common subjects are General Awareness, Reasoning, English, and Maths. Some jobs may include extra subjects.

Q. What is the minimum age to undertake a government job examination?

Ans: Minimum age is usually 18 years. Age limits change depending on the job. NDA has a specific age range.

Q. Is NDA opens to female candidates?

Ans: Yes, female candidates can now apply for NDA.

Q. Is it true that candidates can join the Indian Army after completing the 12th?

Ans: Yes, 12th pass students can join the Indian Army if they meet eligibility rules

Q. After passing the government exams, where will the selected candidate work?

Ans: Central government jobs can post you anywhere in India. State jobs are within the state.

Q. Is physical fitness certification required for government positions after 12th grade?

Ans: Yes, physical fitness is required for most government jobs.

CHAPTER – 35

Government Exams After 12th

<https://www.curominds.com/blog/government-exams-after-12th/>

After 12th, students can apply for many government exams like SSC, Defence, Railways, Police, and state-level exams without a degree. These jobs give stable salary, promotions, and job security. The article explains eligibility, salary, how to apply, and simple tips to prepare confidently.

Government exams after 12th are competitive tests by central or state authorities for public sector jobs. This means:

- You can start earning early.
- You get a fixed salary and stable career.
- Promotions depend on service and exams, not job change.

These jobs are not easy. Competition is high, and students usually prepare seriously for 1–3 years.

Government exams after 12th help you join public service early, but success needs serious preparation. Students can apply for exams like SSC, Railways, Police, Defence, state exams, and some bank or post office clerical jobs. Age is usually 17–20 years, and starting salary is around ₹20,000–₹60,000 per month with job security. Many families prefer government jobs for stability and respect, but most 12th-based posts are lower-level. Higher posts like UPSC, SSC CGL, and Bank PO need graduation. The article explains real competition, salary, and career growth to help students and parents decide clearly.

Major Government Exams After 12th

1. **SSC Exams:** SSC conducts exams like CHSL and GD Constable for 12th-pass students. Age is usually 18–27 years. Salary ranges from ₹19,900 to ₹63,200. Jobs are clerical or uniformed.
2. **Defence Exams:** NDA and other defence entries allow students to join Army, Navy, or Air Force. Age is around 16.5–19.5 years. Starting salary is about ₹56,100+, with allowances.
3. **Railway Exams:** RRB conducts exams like NTPC and Group posts for 12th pass candidates. Age is 18–30 years. Salary is ₹18,000–₹35,000 plus benefits. Jobs are stable.
4. **Police & Paramilitary Exams:** Students can apply for SSC GD or State Police exams. Physical fitness is required. Salary ranges from ₹21,700 to ₹69,100.
5. **State-Level Exams:** States conduct exams for clerks, constables, and assistants. Salary is around ₹15,000–₹40,000 depending on the state.

Complete List of Government Exams After 12th

GOVT. EXAM	WHERE TO APPLY	ELIGIBILITY	AGE LIMIT	SALARY RANGE
SSC CHSL	ssc.nic.in	12th pass	18–27	₹19,900–63,200
SSC GD Constable	ssc.nic.in	10th/12th pass	18–23	₹21,700–69,100
NDA	upsc.gov.in	12th (Science for Navy/Air Force)	16.5–19.5	₹56,100+
RRB NTPC (12th Level)	rrbcdg.gov.in	12th pass	18–30	₹19,900–63,200
Indian Navy SSR	joinindiannavy.gov.in	12th (Science)	17–21	₹21,700+
Air Force Agniveer	agnipathvayu.cdac.in	12th (Science)	17.5–21	₹30,000 (Year 1)
State Police Constable	Respective State Police Website	12th pass	18–25	₹21,700–69,100

Government Exams After 12th

For Arts Students:

Arts students can apply for exams like SSC CHSL, SSC GD, and State Police. No Science or Commerce is needed. Salary is around ₹19,900–₹69,100.

For Science Students:

Science (especially PCM) students can apply for NDA, Navy SSR, and Air Force Agniveer. These give officer or technical roles with better growth. Starting salary is ₹30,000–₹56,100+.

For Commerce Students:

Commerce students can apply for SSC CHSL, State Clerk, and Cooperative Bank exams. Jobs are clerical or accounting based. Salary is around ₹19,900–₹45,000.

Without Graduation:

12th-pass students can apply for SSC CHSL, SSC Stenographer, Army Agniveer, and Railway Group C. Salary ranges from ₹18,000–₹63,200. Some jobs are not permanent.

Age Limit:

Most exams require age 18–27 years. Defence exams need 16.5–21 years. Relaxation is given for reserved categories.

Highest Salary Jobs:

NDA offers the highest long-term salary. SSC CHSL and RRB NTPC are among the highest-paying entry-level jobs after 12th.

GOVERNMENT JOB / EXAM	ELIGIBILITY (AFTER 12TH)	AVG. MONTHLY SALARY	WHERE TO APPLY (OFFICIAL)	KEY NOTES & BENEFITS
NDA (Army, Navy, Air Force Officer)	12th pass (PCM mandatory), Age 16.5–19	₹70,000–₹90,000 (after training)	upsc.gov.in	Highest long-term salary growth, officer rank, pension
Indian Coast Guard (Navik / GD)	12th pass (stream as per post), Age ~17–24	₹45,000–₹60,000	indiancoastguard.gov.in	Sea allowance, faster promotions than many civilian roles
SSC CHSL (LDC, DEO, PA/SA)	12th pass (any stream), Age 18–27	₹30,000–₹40,000	ssc.nic.in	Strong entry-level central government salary
RRB NTPC (Group C)	12th pass, Age 18–30	₹35,000–₹50,000	rrbcdg.gov.in	Travel benefits, DA, and city-based allowances
Indian Air Force Group X/Y (Agniveer)	12th pass (PCM for X), Age ~17.5–21	₹40,000–₹55,000	agniveervayu.cdac.in	Technical trades earn higher allowances
Indian Navy Sailor (SSR/MR)	12th pass (stream-based), Age ~17–22	₹38,000–₹55,000	joinindiannavy.gov.in	Housing, medical, and long-term defence benefits
State Police Sub-Inspector / Constable	12th pass, Age varies by state	₹32,000–₹45,000	State police recruitment portals	SI roles grow faster than constable posts
Postal Assistant / Mail Guard	12th pass, Age 18–30	₹28,000–₹38,000	indiapost.gov.in	Stable hours, low transfer pressure
Forest Guard / Ranger	12th pass, Age ~18–26	₹30,000–₹45,000	State PSC / Forest Dept portals	Field allowances and long-term job security

Final Word: The best government job after 12th depends on your stream, age, and goals. NDA gives fast salary growth and leadership roles. SSC CHSL and Railway NTPC give stable and well-paid jobs. Start early and prepare seriously for 1–2 years.

FAQs:**1. Which government exams can I give after 12th?**

A. After 12th, you can apply for exams like SSC CHSL, NDA, Railway NTPC, Police, Navy, Air Force, Coast Guard, Postal, and state exams.

2. What are the best government jobs after 12th with high salary?

A. High-salary jobs after 12th include NDA, Coast Guard, SSC CHSL (DEO), Railway NTPC, and defence jobs. Salary starts from ₹30,000–₹90,000.

3. Can I get a government job after 12th without graduation?

A. Yes, many government jobs after 12th do not need graduation, like SSC CHSL, NDA, Railways, Police, Defence, and Postal jobs.

4. Which government exam after 12th has the highest salary?

A. NDA gives the highest long-term salary, around ₹70,000–₹90,000 after training, with promotions and benefits.

5. Are government jobs after 12th better than private jobs?

A. Government jobs give stable income and security, while private jobs may pay more at first but have less stability.

CHAPTER – 36**How to Become a Pilot in India after 12th: Step-by-Step, Eligibility, Courses, Fees, Entrance, Jobs, Salary, Colleges & Exams**

1. Career Possibility: You can become a pilot in India after 12th. It is a rewarding career with good benefits and travel opportunities.

2. Training: Pilots receive strong training to fly different types of aircraft.

3. Female Pilots in India: India has over 1,200 female pilots, the highest in the world, making up 12.4% of major airline pilots.

4. Types of Pilots: Different pilot types include Airline Transport Pilots, Private Pilots, Air Force Pilots, Commercial Pilots, Sport Pilots, and Flight Instructors. Students can choose the type they want.

How to Become a Pilot in India after the 12th?

Becoming a pilot is a proud and respected career choice. As the aviation industry grows, it offers a stable and secure job with many benefits.

How to Become a Pilot in India – Overview	
Pilot Profiles	<ul style="list-style-type: none"> Commercial Pilot (Private Airlines) Pilot in Indian Air Force (Flying Branch) Airline Pilot & Fighter Pilot
Eligibility Criteria	<p>Education Qualification:</p> <ul style="list-style-type: none"> 10+2 with Physics, Maths and Chemistry UG Courses <ul style="list-style-type: none"> BSc Aviation BBA Aviation Management B.E. Aeronautical Engineering, etc <p>Age Criteria:</p> <ul style="list-style-type: none"> Age Limit: 16 to 17 years minimum
Fees of Pilot Training Courses	Rs. 15 Lakhs to Rs. 20 Lakhs approx.
Average Annual Salary	<ul style="list-style-type: none"> Rs. 4.5 lakhs to Rs. 6.7 lakhs (Government/IAF) Rs. 12 lakhs to Rs. 20 lakhs (Commercial/Private)
Types of Pilots	<ul style="list-style-type: none"> Airline Pilot. Charter Pilot. Commercial Pilot.& Military Pilot
Top Pilot Schools	<ul style="list-style-type: none"> Bombay Flying Club. Indira Gandhi Rashtriya Uran Academy; Madhya Pradesh Flying Club. National Flying Training Institute
Exam to Become Military Pilot	<ul style="list-style-type: none"> <u>NDA Exam</u> <u>AFCAT Exam</u> CDS
Licence	<ul style="list-style-type: none"> Private Pilot License (PPL) Certified Flight Instructor (CFL) Commercial Pilot License (CPL) Commercial Multi-Engine Land (CMEL)

Two Routes to Become a Pilot

1. Civil Aviation Route: Get a commercial pilot license and fly for an airline after completing the required course and 12th with proper subjects.

2. Defence (Air Force) Route: Clear competitive exams and join the Air Force, where you are trained as a pilot with combat practice.

Step-by-Step Process

Step 1: Get a bachelor's degree:

Complete a graduation degree (preferably related to aviation) or a diploma. You can join a pilot school or prepare for defence exams.

Step 2: Gain Flying Experience and License

Complete required flying hours (250 for commercial pilot, 1500 for airline pilot) and get the proper pilot license.

Step 3: Complete Extra Training and Tests

Pass medical, health, and psychological tests required by airlines.

Step 4: Become a Captain

Work for years, gain experience and flying hours, and then get promoted to Captain.

Eligibility Criteria

You must meet strict physical and medical standards to become a pilot in India.

Eligibility to Become a Pilot After 12 th	
Minimum Age	17 years since time of the beginning of training
Educational Qualification	50% or more marks in the 12th class from a recognized board

Subjects	One must have studied Math's, Physics, Chemistry, and English in 12th class*
Other Requirements	Medical Certificate from authorities as required by the training institution

*If you have not studied science or any of the prescribed subjects in the 12th class, you can pursue them from an open school that is under a recognized board and present the certificate to the institution at the time of admission.

Physical Requirements for Becoming a Pilot in India 2024					
Gender	Specifications				
	Height	Vision	Leg Length	Thigh Length	Sitting Height
Male	157 cm (5 ft 2in)	One eye - 6/6 and Other eye - is 6/9 (must not suffer from colour or night blindness)	99 cms – 120 cms	64 cms	81.5 cms - 96 cms
Female	152 cm (5 ft)				

Top Colleges for Pilot Courses in India 2024

India offers some of the best pilot courses after the 12th class. Many good institutes provide the right training and skills to start a career as a pilot. Below is a list of some of the top colleges for pilot training in India.

College Name	Average Fees - Commercial Pilot License (CPL)	Course Duration
CAE National Flying Training Institute (NFTI)	42 Lakhs	54 Months
Indira Gandhi Institute of Aeronautics (IGIA)	1.59 Lakhs	12 Months
Indira Gandhi Rashtriya Uran Akademi (IGRUA)	38 Lakhs	48 Months
Jeet Aviation Academy (JAA)	26 Lakhs	48 Months
Bombay Flying Club (BFC)	35 Lakhs	36 Months
Madras Flying Club (MFC)	24 Lakhs	36 Months
Yudhvir Singh Chauhan College of Aviation (YSCCA)	20 Lakhs	48 Months
Himalayan Aviation Academy (HAA)	28 Lakhs	48 Months

Best Universities/Colleges for Pilot Course Abroad 2024

You can also study pilot courses abroad. Many top universities offer good training to help you become a skilled pilot and give you great learning experience.

Refer to the list below to know the **top universities for pilot courses abroad**.

University/College	Program	Estimated Degree Cost (USD)
Embry-Riddle Aeronautical University (Daytona Beach, Florida, USA)	Bachelor of Science in Aeronautics	\$180,000 - \$250,000
Cranfield University (Bedfordshire, England)	Master of Science in Air Transport Management	£70,000 - £90,000
Massey University (Palmerston North, New Zealand)	Bachelor of Aviation with a major in Commercial Flying	NZD \$220,000 - \$260,000
Royal Netherlands Air Force Academy (Gilze-Rijen, Netherlands)	Bachelor of Aerospace Technology	€30,000 - €40,000 (subsidized tuition for Dutch citizens)
Sichuan Flight Academy (Chengdu, China)	Bachelor of Science in Air Transport Management	¥150,000 - ¥200,000
University of New South Wales (Sydney, Australia)	Bachelor of Aviation / Bachelor of Business	AUD \$150,000 - \$200,000
Jeppesen Sanderson Academy (Various Locations)	Integrated Airline Transport Pilot (ATP) Program	€60,000 - €80,000
Lufthansa Aviation Training (Bremen, Germany)	Airline Transport Pilot (ATP) Program	€70,000 - €90,000

1. Types of Pilot Licenses

To be a pilot in India, you need a license. Main types are:

- Private Pilot License (PPL)
- Certified Flight Instructor (CFL) License C
- Commercial Pilot License (CPL)

2. UG Courses for Pilots

Doing an undergraduate course after 12th can improve career options and help you become a better pilot.

Degree	Focus	Average Fees per Year (INR)	Duration (Years)
BBA Airport Management	Airport operations, administration, & business	3-5 Lakhs	3-4
BBA Aviation Operations	Airline and aviation industry operations	3-5 Lakhs	3-4
BMS in Aviation Management	Management principles applied to aviation	2-4 Lakhs	3-4
B.E. Aeronautical Engineering	Aircraft & spacecraft design, development, & testing	4-7 Lakhs	4
B.E. Aerospace Engineering	Spacecraft & related systems design, development, & testing	4-7 Lakhs	4

B.Tech Avionics Engineering	Aircraft electronic systems design, development, & maintenance	3-5 Lakhs	4
B.Tech Aeronautical Engineering	Same as B.E. Aeronautical Engineering	4-7 Lakhs	4
B.Sc. Aviation	Aviation science, flight operations, & management	2-4 Lakhs	3-4
B.Sc. Aeronautical Science	Scientific Principles of flight and Aircraft systems	2-3 Lakhs	3-4

Postgraduate Courses for Pilots

Postgraduate courses help pilots grow their careers, work in flying and non-flying roles, and gain an advantage for long-term success.

Degree	Focus	Average Fees per Year (INR)	Duration (Years)
MBA in Aviation	Aviation industry management, business strategies, leadership	4-8 Lakhs	1-2
MSc in Aviation	Advanced study of aviation systems, operations, and safety	3-5 Lakhs	2
M.Sc. Aerospace Engineering	Specialized study of spacecraft design, analysis, and testing	4-7 Lakhs	2
M.Sc. Aeronautical Science	In-depth knowledge of aerodynamics, structures, and materials for aircraft	3-5 Lakhs	2
M.E. Aerospace Engineering	Master's level study of aircraft and spacecraft design, research, and development	4-7 Lakhs	2
M.E. Aeronautical Engineering	Same as M.E. Aerospace Engineering	4-7 Lakhs	2
M.Tech. Aerospace Engineering	Focus on advanced aeronautical technology, research, and innovation	4-7 Lakhs	2
M.Tech. Aeronautical Engineering	Same as M.Tech. Aerospace Engineering	4-7 Lakhs	2
M.Tech. Avionics Engineering	Advanced study of aircraft electronic systems, design, and technology	4-5 Lakhs	2

Certifications After 12th

You can do aviation certifications after 12th without a degree. These courses help you enter the aviation field.

How to Become a Pilot through AFCAT

About AFCAT:

This exam (held twice a year) lets you join the **Indian Air Force** as a Short Service Commission officer.

Eligibility:

- Age: 20–24 years (up to 26 with CPL)
- 50% in Maths & Physics in 12th
- Bachelor's degree with 60%
- Technical branch needs BE/B. Tech with 60%

How to Become a Pilot through NDA

Eligibility:

- Age: 16.5–19.5 years
- 12th with Physics & Maths
- Unmarried
- Must meet physical and medical standards.

Selection Process:

1. Written exam (Maths + General Ability)
2. SSB Interview
3. CPSS test (for flying branch)
4. Medical test

Skills Required

A pilot must have:

• Strong technical knowledge	• Mental & physical fitness
• Quick decision-making	• Leadership and teamwork
• Critical thinking	• Good communication skills
• Focus and discipline	• Situational awareness

Career Options for Pilots

Airline Pilot: Flies passengers/cargo on international routes.

Commercial Pilot: Flies shorter regional routes.
Military Pilot: Flies defence aircraft and may do combat missions.
Corporate Pilot: Flies private jets for companies or individuals.
Charter Pilot: Flies passengers to specific locations (air taxi).
Benefits of Being a Pilot
Good Salary: High pay that increases with experience.
Job Security: High demand due to growing aviation industry.
Travel Opportunities: Chance to travel worldwide.
Discounted Tickets: Airline pilots get discounted family tickets.
Other Benefits: Health benefits, free meals, lodging, insurance, PF, etc.
Career Growth: Promotion to higher ranks and desk jobs later.

Salary of Pilot in India

- Average: ₹1–2 lakh per month
- Military pilot: ₹5–8 lakh per year + benefits
- Salary increases with experience

Top Recruiters in India

• IndiGo	• Alliance Air
• AirAsia	• Air Costa
• Air India	• Jet Airways
• SpiceJet	• Air India Express

Summary: Becoming a pilot is a respected and rewarding career. After training, many job options open up. If you dream of becoming a pilot after 12th, you should confidently pursue it.

FAQs: How to Become a Pilot After 12th

Q1. Do I need a specific degree to become a pilot?

No specific degree is required, but courses like B.Sc. Aviation or Aeronautical Engineering can help you understand aviation better.

Q2. What are the minimum eligibility requirements for becoming a pilot?

Minimum age: 17 for PPL and 18 for CPL.

You must study Physics and Maths in 12th.

Pass DGCA medical tests (Class 1 or 2).

Meet required height and weight standards.

Q3. What are the different licenses and certifications needed?

You need: PPL, CPL, ATPL (to become Captain), type rating for aircraft, and a Class 1 or 2 medical certificate.

Q4. How much does it cost to become a pilot?

Total cost includes training, flight hours, medical tests, license fees, and living expenses.

It usually costs around ₹20–50 lakhs.

Q5. What are the career prospects for pilots in India?

Pilot jobs are growing in India.

With CPL, you start as First Officer and can become Captain later.

Salary ranges from ₹3–10 lakhs per month depending on experience and airline.

Q6. Can I study abroad for pilot training?

Yes, you can study abroad.

Check costs, course details, visa rules, and job opportunities before applying.

Q7. What are the physical and mental requirements for being a pilot?

You must have good health, vision, and hearing.

Good coordination and quick decision-making skills.

Strong thinking ability, stress handling, communication, and teamwork skills.

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CHAPTER – 37.

Bank Jobs After 12th

Bank Exams after 12th - Check Eligibility & Exam Pattern

[<https://store.pw.live/blogs/banking-exams/bank-jobs-after-12th-eligibility-exam-pattern?srltid=AfmBOooKgt1Uvva8uamrdL0pQN5nGfzwjKxIpHnL0923pJfJDNdF5Zfe>]

Banking jobs are popular because they offer stability, respect, and good career growth. While many banking posts require a graduation degree, some roles are available for candidates who have completed 12th. This article explains the eligibility criteria and exam pattern for getting a government bank job after 12th.

Eligibility Criteria for Bank Jobs After 12th

Educational Qualification

Clerk Posts: Must pass 12th with around 50–60% marks. Local language knowledge may be needed.

Office Assistant: Must pass 12th with required marks. Some banks accept diploma holders.

Data Entry Operator (DEO): 12th pass is enough. Computer skills and typing speed are required.

Age Limit

Age is usually 18–28 years. Reserved categories get age relaxation (SC/ST – 5 years, OBC – 3 years, PWD – up to 10 years).

Exam Pattern for Bank Jobs After 12th

Preliminary Exam: Objective MCQs from English, Maths, and Reasoning. 1 hour, around 100 marks.

Main Exam: Harder MCQs from English, Maths, Reasoning, General Awareness, and Computer. 2–3 hours, around 200 marks.

Interview: Tests communication skills and banking knowledge. Around 100 marks.

Detailed Syllabus and Study Plan

English Language: Includes comprehension, grammar, vocabulary, and para jumbles. Read newspapers and practice grammar.

Quantitative Aptitude: Covers maths topics like percentage, ratio, average, and data interpretation. Practice daily and solve mock tests.

Reasoning Ability: Includes puzzles, coding-decoding, blood relations, and logical questions. Practice regularly.

General Awareness: Covers current affairs, banking knowledge, and static GK. Read news daily and revise notes.

Computer Knowledge: Includes basic computer terms and MS Office. Learn basics and practice online.

Preparation Tips

Understand Syllabus: Know exam pattern and focus on important topics.

Regular Practice: Solve mock tests and manage time well.

Stay Updated: Follow banking and current affairs news.

Improve English: Work on grammar and vocabulary.

Computer Skills: Learn basic computer knowledge.

Online Resources

Mock Tests: Use online platforms for practice tests.

Current Affairs: Follow websites for daily news updates.

YouTube Channels: Watch educational videos for better understanding.

Conclusion: Getting a bank job after 12th is possible with proper preparation. Banking offers a stable and rewarding career for young aspirants.

Bank Exams After 12th - FAQs

Q1: What qualifications are needed for bank jobs after 12th?

Ans: You need to have passed the 12th grade with a minimum of 50-60% marks.

Q2: What is the age limit for bank jobs after 12th?

Ans: The typical age range is 18-28 years, with relaxations for reserved categories.

Q3: What are the key sections in the bank exam?

Ans: English Language, Quantitative Aptitude, Reasoning Ability, General Awareness, and Computer Knowledge.

Q4: How can I prepare for the bank exam after 12th?

Ans: Understand the syllabus, practice regularly, stay updated with current affairs, and improve your computer skills.

CHAPTER – 38.

Top Bank Jobs after 12th: Check Eligibility, Skill Required & Salary

1. Banking Sector Overview: Banking offers many job options with good salary, job security, and benefits. Many students choose bank jobs after 12th.

2. Career Opportunities After 12th: After Class 12, students can take banking courses and apply for different bank roles to start their careers.

3. Purpose of the Article: This article explains bank jobs after 12th and the important skills needed.

Must-Have Skills for Bank Jobs After 12th

4. Communication Skills: Good speaking and writing skills are needed to talk to customers and explain banking work.

5. Customer Service Skills: Banks need employees who can solve problems, listen carefully, and keep customers happy.

6. Analytical Skills: Bank jobs need the ability to understand data and solve problems logically.

7. Teamwork: Employees must work well with others, support team members, and communicate clearly.

8. Skill Development Importance: Students should improve these skills to increase their chances of getting bank jobs after 12th.

9. List of Bank Jobs After 12th: There are different bank jobs available for students after completing Class 12.

Job Title	Educational Qualification	Average Annual Salary (in ₹)
Stenographer	Candidates need to secure at least 60% marks in their 10+2 Board Examinations from a recognised educational institution and need to appear	₹90,000-6,00,000

	for the SSC Stenographer Preliminary Examinations	
Data Entry Operator	Candidates need to clear their 10+2 Board Examinations in any stream. Also, it would be great if the candidate did a Microsoft Office certification course	₹1,00,000-5,00,000
Tele Caller	Candidates need to clear their 10+2 Board Examinations in any stream	₹1,00,000-3,00,000

1. Introduction

Now let us understand these bank jobs after 12th in more detail.

2. Stenographer – Bank Job After 12th

A stenographer writes in shorthand and types official or legal documents using a steno machine.

They also do type and office document work.

Age limit: 18 to 25 years.

3. Data Entry Operator – Bank Job After 12th

A Data Entry Operator enters important information into a computer.

It is an indoor clerical job that needs computer and language skills.

Duties:

- Prepare and sort data files.
- Enter data correctly without mistakes.
- Check and organise information.
- Provide data when requested.

4. Tele Caller – Entry-Level Bank Job

Telecallers talk to customers on phone or in person and help with questions or sales.

They need good English and Hindi speaking skills and basic computer knowledge.

5. Top Bank Employers in India

After 12th, students can apply for banking jobs in different Indian banks.

Indian Overseas Bank	Punjab National Bank
Punjab & Sind Bank	Canara Bank
State Bank of India	Central Bank of India
UCO Bank	Bank of Baroda
Union Bank of India	Bank of Maharashtra
Indian Bank	Bank of India

Top Bank Recruiters Abroad

If candidates are looking to work in the banking sector of foreign countries, they can take a look at these banks:

Citibank	Deutsche Bank
Goldman Sachs	HSBC
Standard Chartered	J.P. Morgan
American Express	Morgan Stanley
Barclays Capital	-

1. Banking Exams After 12th – Overview

After 12th, students can enter banking through entry-level exams for clerk, assistant, or officer jobs.

2. Popular Banking Exams

- **SBI Clerk Exam:** Conducted by State Bank of India for Junior Associate posts.
- **RBI Assistant Exam:** Conducted by Reserve Bank of India for assistant jobs in the central bank.

3. Bank Job Eligibility

- **Education:** Most entry-level jobs need 12th pass. Higher posts need a bachelor's degree.
- **Age Limit:** Usually 18–25 years (may vary by bank).
- **Nationality:** Candidate must be a citizen of the country (for example, Indian citizen for jobs in India).
- **Skills Needed:** Basic maths, communication skills, computer knowledge, and problem-solving ability.
- **Exams Required:** Some jobs require exams like IBPS PO, IBPS Clerk, or SBI PO.

These test maths, reasoning, English, and general awareness.

- **Language Skills:** Knowledge of local or national language (Hindi and English in India) is preferred.
- **Physical Fitness:** Some roles may require basic physical fitness.
- **Background Check:** Banks check education records, criminal history, and credit details.
- **Training & Certification:** Banking certificates help. Banks also give job training.

4. Conclusion: There are many bank jobs for 12th-pass students. Students should take banking courses and prepare for exams.

Both private and government bank jobs are in demand and offer good salary and career growth.

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CHAPTER – 39

Best Bank Jobs after 12th: Eligibility, Required Qualifications, and Exams You Must Know

[<https://www.jainuniversity.ac.in/blogs/best-bank-jobs-after-12th>]

Best Bank Jobs After 12th

Bank Clerk

- Handles deposits, withdrawals, and customer queries.
- Must pass 12th with required marks.
- Selection through exam and interview.

Office Assistant

- Manages files and supports bank staff.
- Needs good communication skills.
- Selection through interview or written test.

Sales Executive

- Promotes bank products to customers.
- Needs confidence and communication skills.
- Selection mainly through interview.

Bank Exams After 12th

- Most bank jobs require clearing a competitive exam.
- Exams test speed, accuracy, and basic subjects.

IBPS Clerk Exam

- For clerical jobs in public banks.
- Has prelims and mains exam.
- Includes English, reasoning, and maths.

Clerical Exam by National Banks

- Some banks conduct their own exams.
- Includes English, reasoning, and maths.
- May include interview or skill test.

Exams by Other Financial Institutions

- Cooperative banks also conduct clerk exams.
- Questions are multiple choice.
- Covers English, reasoning, and maths.

Government Bank Exam Information Sources

National Career Service (NCS)

- Lists banking job openings.

Sarkari Result

- Provides exam and result updates.

Employment News

- Weekly updates on government jobs.

State Government Portals

- Shows local bank job vacancies.

How to Apply for Bank Jobs

- Visit official bank career websites.
- Check eligibility and notification.
- Apply online and upload documents.
- Pay fee if required.
- Check portals regularly for updates.

Preparation Tips for Bank Exams

- Study reasoning, maths, English, and general awareness.
- Take mock tests regularly.
- Improve weak subjects.
- Follow a proper study timetable.
- Read news for current affairs.
- Build basics in maths and grammar.
- Use limited and trusted study material.
- Improve typing and computer skills.
- Maintain good health and sleep.
- Stay consistent and motivated.

Conclusion

- Banking after 12th gives early work experience.
- Jobs like clerk, data entry, assistant, and sales are available.
- With preparation and learning, you can grow in banking.
- It is a good career option in finance and customer service.

CHAPTER – 40

RAILWAYS - JOBS

Railway Jobs for 12th Pass, High-Paying Career Paths & Exam Details

[https://store.pw.live/blogs/rrb-exams/railway-jobs-for-12thpass?srsltid=AfmBOooOojMmdGocNX6ad9MbA5SDzVAC5XSdUTHjupo_hHlbcOHA6ybe\]](https://store.pw.live/blogs/rrb-exams/railway-jobs-for-12th-pass?srsltid=AfmBOooOojMmdGocNX6ad9MbA5SDzVAC5XSdUTHjupo_hHlbcOHA6ybe)

Railway Jobs for 12th Pass

Job Opportunities: Indian Railways offers stable jobs for 12th pass candidates in technical and non-technical roles like Ticket Collector, Commercial Apprentice, Assistant Loco Pilot, and RPF Constable.

Selection Process: Candidates must apply for RRB exams, which test general awareness, reasoning, mathematics, and general science.

Career Benefits: Passing the exams provides good salary, job stability, growth opportunities, and other benefits.

Recruitment: RRB conducts annual exams for various positions and ensures a fair selection process for 12th pass candidates.

High-Paying Career Paths After 12th

Check out the High-Paying Career Paths After 12th along with the railway jobs qualification and salary:-

1. Junior Clerk Cum Typist

Handles records, documents, data entry, and clerical tasks with typing skills.

- **Eligibility:** 12th pass, 50%+ marks
- **Exam:** RRB NTPC + Typing Test
- **Salary:** ₹3.5 – 5.5 LPA

2. Accounts Clerk Cum Typist

Manages financial records, payments, and clerical work including typing.

- **Eligibility:** 12th pass, 50%+ marks
- **Exam:** RRB NTPC + Typing Test
- **Salary:** ₹3.5 – 5.5 LPA

3. Commercial Cum Ticket Clerk

Handles ticketing and commercial work in railways.

- **Eligibility:** 12th pass, 50%+ marks
- **Exam:** RRB NTPC
- **Salary:** ₹3.5 – 5.5 LPA

4. Junior Timekeeper

Maintains train schedules, shifts, and punctuality records.

- **Eligibility:** 12th pass, 50%+ marks
- **Exam:** RRB NTPC + Typing Test
- **Salary:** ₹3.5 – 5.5 LPA

5. Assistant Loco Pilot & Technician

Operates trains and assists in electrical, mechanical, or engineering maintenance.

- **Eligibility:** 10th + ITI or 12th with Physics & Maths
- **Exam:** RRB ALP (CBT + Aptitude Test)
- **Salary:** ₹3.5 – 6 LPA

6. RRB Group D Posts

Performs track maintenance, points switching, and general railway support.

- **Eligibility:** 12th pass
- **Exam:** RRB Group D + Physical Test
- **Salary:** ₹3.5 – 5 LPA

Railway Exams After 12th

Check out the Railway Exams After 12th and its details below: -

Railway Exam	Job Role	Eligibility	Exam Details	Salary Range (as per 7th CPC)
RRB NTPC (Non-	Junior Clerk Cum Typist, Accounts	10+2 or equivalent (50% marks)	CBT, Typing Test (for Typist posts)	Rs. 3.5 LPA to Rs. 5.5 LPA

Technical Popular Categories)	Clerk, Ticket Clerk, etc.			
RRB ALP (Assistant Loco Pilot)	Assistant Loco Pilot, Technician	10th with ITI (Electrical/Mechanical/Engineering) or 10+2 (Physics & Math's)	CBT, Computer-Based Aptitude Test (CBAT for ALP)	Rs. 3.5 LPA to Rs. 6 LPA
RRB Group D	Track Maintainer, Assistant Points man, Helper, etc.	10+2 or equivalent	CBT, Physical Efficiency Test (PET)	Rs. 3.5 LPA to Rs. 5 LPA
RRB Junior Timekeeper	Junior Timekeeper (Train Schedules & Timings)	10+2 with a minimum of 50% marks	CBT, Typing Test	Rs. 3.5 LPA to Rs. 5.5 LPA
RRB Commercial Apprentice	Commercial Apprentice (Ticketing & Administrative Roles)	10+2 with a minimum of 50% marks	CBT, Document Verification	Rs. 5 LPA to Rs. 7 LPA
RRB Ticket Collector	Ticket Collector (Customer Service & Ticket Checking)	10+2 with a minimum of 50% marks	CBT, Document Verification	Rs. 4.5 LPA to Rs. 6 LPA
RRB Goods Guard	Goods Guard (Transporting Goods via Trains)	10+2 with a minimum of 50% marks	CBT, Document Verification	Rs. 5 LPA to Rs. 7 LPA

Railway Jobs After 12th: Books

Use the right RRB books to understand the exam pattern, improve knowledge, and prepare effectively.

Recruitment Process: Railway jobs after 12th offer clerical and technical roles with career growth. The recruitment process includes several stages:

1. **Computer-Based Test (CBT):** Tests general knowledge, maths, and reasoning.
2. **Skill Test:** Typing test or Computer-Based Aptitude Test (CBAT) for technical roles.
3. **Document Verification:** Check educational and personal documents for eligibility.
4. **Physical Efficiency Test (PET):** Required for posts like track maintainer or assistant pointsman.
5. **Medical Examination:** Ensures candidates meet health standards.

Perks and Benefits

Railway jobs offer attractive salary and many benefits:

- **Accommodation:** Free or affordable housing.
- **Education:** Support and scholarships for employees' children.
- **Medical Facilities:** Free or discounted healthcare.
- **Travel Passes:** Free or cheap train travel.
- **Job Security:** Stable and secure employment.
- **Pension:** Steady income after retirement.
- **Gratuity:** Lump sum reward after years of service.
- **Sports & Activities:** Opportunities for recreation and fitness.
- **Family Job:** Some jobs extend opportunities to family members.

Stream-Wise Railway Jobs

Railway jobs are available for students from **Arts, Science, and Commerce**, providing stable and secure careers for all streams.

Stream-Wise Railway Jobs After 12 th		
Arts	Science	Commerce

<ul style="list-style-type: none"> • Station Master • Senior Commercial cum Ticket Clerk • Junior Account Assistant cum Typist • Traffic Assistant • Trains Clerk • Goods Guard • Commercial Apprentice • Senior Clerk cum Typist • Senior Timekeeper 	<ul style="list-style-type: none"> • Assistant Loco Pilot & Technician • Trains Clerk • Commercial Clerk • Train Clerk • Account Clerk cum Typist • Junior Clerk cum Typist • Ticket Checker (TC) 	<ul style="list-style-type: none"> • Ticket Collector (TC) • Junior Clerk Cum Typist • Junior Account Assistant • Commercial Apprentice • Goods Guard • Trains Clerk • Assistant Station Master (ASM) • Commercial Clerk • Stenographer (Hindi/English)
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Railway Jobs after 12th FAQs

1. **What are the eligibility criteria for railway jobs after 12th?**

1. **Eligibility:** 12th pass from a recognized board; some posts may need specific subjects, percentage, or skills.

2. **Which railway exams can I take after 12th?**

2. **Exams:** RRB NTPC, RRB ALP, RRB Group D, and other railway recruitment exams.

3. **Is there any age limit for railway jobs after 12th?**

3. Yes, the age range generally varies between 18 to 30 years, depending on the post and category (SC/ST/OBC, etc.).

4. **What is the selection process for railway jobs?**

4. **Selection Process:** CBT → Skill Test (if needed) → Document Verification → PET → Medical Exam.

5. **What kind of railway jobs can I apply for after 12th if I studied Arts?**

5. **Arts Students Jobs:** Station Master, Senior Commercial cum Ticket Clerk, Junior Account Assistant cum Typist, Goods Guard.

CHAPTER -- 41

DEFENCE JOBS

How to Join Defence Forces After 12th - A Complete Guide

[<https://www.invest4edu.com/blog/how-to-join-defence-forces-in-india>]

This article explains how to join the Indian Army, Indian Air Force, and Indian Navy after 12th. It covers eligibility, entry options, and steps to become an officer. It helps students and parents understand and plan a defence career clearly.

Understanding Defence Forces in India

Joining the Indian Army, Indian Navy, or Indian Air Force is an honourable career. Students can join after 12th through entries like National Defence Academy, AFCAT, or Navy 10+2 B.Tech entry.

- **Indian Army** – Safeguards the country's land borders.
- **Indian Navy** – Protects India's maritime boundaries.
- **Indian Air Force** – Ensures aerial defence and national security.

• **Indian Army is a respected force with different entry options.**

Eligibility

- Age: 16.5–19 years for National Defence Academy; 19–24 years for other officer posts.
- Education: 10+2 for NDA; Graduation for officer entries.
- Nationality: Must be Indian.
- Physical: Must be medically fit.

How to Join After 12th

- Main entry is through NDA.
- Clear exam by Union Public Service Commission.
- Clear SSB interview.
- Complete training at NDA, Khadakwasla.

For Female Candidates

- Officer entry mainly through Indian Air Force.
- Clear AFCAT or apply through NCC Special Entry.
- Soldier entries for women are increasing in Army, Navy, and Air Force.
- **Indian Air Force is best for students interested in aviation and technology.**

Eligibility

- Age: 16.5–19 years for National Defence Academy (Air Force wing); 20–24 years for graduates.
- Education: 10+2 Science for NDA; Graduation for officer/technical posts.
- Nationality: Must be Indian.
- Physical: Must meet medical and eyesight standards.

How to Join After 12th

- Clear NDA exam by Union Public Service Commission.
- Clear SSB interview.

- Complete training at NDA, Khadakwasla.
- Other options: NCC Air Wing entry or Combined Defence Services exam for graduates.
- **Indian Navy offers sea adventure, technical work, and leadership roles.**

Eligibility

- Age: 17–22 years for 10+2 entry; 19–25 years for graduates.
- Education: 10+2 with PCM for technical branch; Graduation for officer posts.
- Nationality: Must be Indian.
- Physical: Must meet medical standards.

How to Join After 12th

- 10+2 (B.Tech) Cadet Entry Scheme for technical branch.
- National Defence Academy (Navy Wing) for 12th Science students.
- University Entry Scheme for final year engineering students.
- Graduates can join through Combined Defence Services exam.
- Women can join selected officer roles through special entries.

Official Websites for Defence Recruitment Notifications

Students should regularly check official defence recruitment websites for updates. These sites provide application details, eligibility, exam dates, and deadlines to help plan a defence career properly.

Below are the main websites for all branches of the defence services:

Service	Entry/Exam	Official Website	What You Can Find Here
NDA & CDS	UPSC Exams	upsc.gov.in	Notifications for NDA (Army, Navy, Air Force wings) and CDS exams for graduates, exam dates, syllabus, and results.
Indian Army	Join Indian Army	joinindianarmy.nic.in	Information on Soldier, Officer, Technical, and TES entries, application forms, eligibility criteria, and SSB schedule.
Indian Navy	Join Indian Navy	joinindiannavy.gov.in	Updates on 10+2 (B.Tech), NDA Navy Wing, Graduate entries, and Navy technical/officer recruitment.
Indian Air Force	AFCAT Portal	afcat.cdac.in	Notifications for AFCAT (Flying and Ground Duty branches), technical and non-technical entries, eligibility, application process, and AFSB interview schedules.

Defence Career Options After 12th

After 12th, students can join the Indian Army, Indian Navy, or Indian Air Force. There are different entry options for school graduates that include education, physical training, and leadership training.

1. National Defence Academy(NDA)

National Defence Academy is a top choice for 12th pass students who want to become officers in the Army, Navy, or Air Force. It offers academic education, physical training, and strong military discipline.

Criteria	Details
Eligibility	Class 12 pass with Physics and Mathematics for Navy and Air Force wings; Age 16.5 – 19.5 years; Indian citizen
Selection Process	NDA written exam conducted by UPSC → SSB (Services Selection Board) interview → Medical examination
Training Duration	3 years at NDA Khadakwasla, Pune → 1 year at respective service academy (Army, Navy, or Air Force)
Career Opportunities	Commissioned as officers in the Army, Navy, or Air Force with opportunities for leadership and advancement

2. Technical Entry Scheme (TES) - Indian Army

The Technical Entry Scheme (TES) is for male students who have strong marks in Physics, Chemistry, and Mathematics in 12th. It allows them to join the Indian Army as technical officers through engineering education and basic military training.

Criteria	Details
Eligibility	12th pass with minimum 60% in PCM; valid JEE Mains score; Age 16.5 – 19.5 years; unmarried males

Selection Process	Shortlisting based on JEE Mains scores → SSB interview → Medical examination
Training Duration	4-year B. Tech program at designated Army engineering colleges → Commissioning as an officer
Career Prospects	Commissioned as Technical Officers in Army branches including electronics, mechanical, and civil engineering roles

3. Indian Navy B. Tech Entry

Indian Navy B. Tech Entry is the best option if you are looking to work in a technical area at sea. Joined to a rigorous training and seagoing programme, you will earn a B. Tech degree and develop academic and technical skills

Criteria	Details
Eligibility	12th pass with PCM; strong academic record; age 17 – 22 years; Indian citizen
Selection Process	Shortlisted based on JEE Mains scores → SSB interview → Medical test
Training	4-year integrated B.Tech program at the Indian Naval Academy (INA), Ezhimala, Kerala; combines academics, seamanship, and military training
Career Opportunities	Commissioned as officers in technical branches of the Navy, including Electronics, Mechanical, and Weapon Systems

4. Agni veer Entry (All Services)

The Agni veer entry scheme under Agnipath allows young candidates to join the Indian Army, Indian Navy, and Indian Air Force. It is a short 3–4-year service that helps them gain professional and personal experience while serving the nation.

Criteria	Details
Eligibility	Age 17.5 – 21 years; educational qualifications vary by trade (10th, 12th, ITI, or Diploma)
Selection Process	Physical fitness test → Written exam → Medical examination
Tenure	4 years, with the possibility of 25% absorption into the regular cadre based on performance
Career Prospects	Candidates gain exposure to military life, leadership skills, and can pursue further opportunities in defence or related fields.

Conclusion: Defence careers offer discipline, leadership, and pride. After 12th or graduation, many entry paths are available.

Success needs planning, preparation, and physical and mental fitness.

Frequently Asked Questions (FAQs)

1. What are the main entry routes into the Defence after class 12?

The main routes include NDA, Technical Entry Scheme (TES) for the Army, B. Tech Entry for the Navy, and the Agni veer scheme for all three services.

2. Can girls join the Indian Army after class 12?

Yes, girls can join through NDA (when eligible), Short Service Commission (SSC), or other specific entries depending on the service branch.

3. What exams should graduates take to join the defence services?

Graduates can apply through CDS, AFCAT, NCC Special Entry, and JAG (for law graduates).

4. What is the typical age limit for NDA and CDS entries?

NDA: 16.5–19.5 years; CDS: 19–24 years (varies slightly depending on the service).

5. Are there different training programs for each defence service?

Yes. Army officers train at IMA or OTA, Navy officers at INA, and Air Force officers at the Air Force Academy, with training designed to prepare them for their respective service roles.

CHAPTER –42

Top Defence Exam after 12th, Best Career Option After 12th

[https://www.pw.live/defence/exams/top-defence-exam-after-12th]

Best Defence Exam After 12th

The NDA exam is considered the best defence exam after 12th. It offers top training at the National Defence Academy and prepares students academically, physically, and mentally for leadership roles in the armed forces.

Top Defence Exams in India List

Apart from NDA, there are other exams that allow students to join different branches of the Indian defence forces after 12th. Some of the top defence exams in India after 12th are:

- NDA Exam (Army, Navy, Air Force)
- Indian Navy B.Tech Entry Scheme

- Indian Army Technical Entry Scheme (TES)
- Indian Coast Guard Navik (General Duty) Exam
- Indian Air Force Group X and Y Exams
- Indian Navy Sailors
- Indian Agniveer

Exams for Defence After 12th

The NDA exam is a tough and competitive exam after 12th. It tests Maths, English, and General Ability, followed by the SSB interview.

Defence Courses After 12th

- **B.Sc. (Hons) in Nautical Science – Indian Navy:** This course trains students for naval operations, navigation, and maritime duties.
- **B.Tech in Engineering – Indian Army (TES Entry):** Through the Technical Entry Scheme (TES), students join after 12th (PCM) and get engineering training along with military training.
- **B.Tech in Aerospace Engineering – Indian Air Force:** Focuses on aircraft systems, aviation technology, and air force operations.
- **B.Sc. in Military Science – National Defence Academy:** NDA provides combined training for Army, Navy, and Air Force along with graduation degree.

These courses provide both academic education and strong physical & military training for a career in defence services.

How to Join Defence after 12th?

Choose your branch, prepare for exams, clear written tests, pass the SSB interview and medical test, and get selected through the merit list.

CRPF SI Selection Process FAQs

1. **What is the eligibility criteria for the NDA exam?**
Candidates must be 16.5 to 19.5 years old and unmarried.
2. **How many times is the NDA exam conducted in a year?**
The NDA exam is held two times every year.
3. **What is the educational qualification for NDA?**
You must pass 12th class. For Air Force and Navy, Physics and Maths are required.

CHAPTER –43

INDIAN AIR FORCE

[<https://careerairforce.gov.in/iaf-jobs-after-10th>]

After 10+2

A student who completes 10+2 with Physics, Chemistry, and Mathematics (PCM) can join the Indian Air Force through the National Defence Academy entry. After selection, the candidate undergoes academic and military training at NDA, followed by specialized Air Force training, leading to a career as an officer in the Indian Air Force.

ENTRY	National Defence Academy (NDA)
ENTRY RECRUITMENT MANAGED BY	Union Public Service Commission (UPSC)
GENDER	Male & Female
BRANCHES	Flying, Aeronautical Engineering (Electronics), Administration and Logistics
TYPE OF COMMISSION	Permanent Commission
ELIGIBILITY CRITERIA	Must be an Indian Citizen
EDUCATION QUALIFICATION	10+2 with Physics, Chemistry and Mathematics (Students appearing in 12th standard can also apply), subject to fulfilment of the qualification as on the date of commencement of the course
ELIGIBILITY CRITERIA	Must an Indian Citizen
AGE LIMIT	16 ½ to 19 ½ years as on date of commencement of training
ADVERTISEMENT SCHEDULE	Refer https://www.upsc.gov.in/ (tentatively during May & Dec)
ADVERTISEMENT RELEASED BY	UPSC
TRAINING SCHEDULED AT	National Defence Academy
MARITAL STATUS OF THE CANDIDATE	Unmarried

CHAPTER -- 44

POLICE JOBS AFTER GRADE 12th

How to Become a Police Officer after 12th: Career, Courses, Eligibility, Top Colleges, Skills, Benefits, Salary

[<https://collegedunia.com/courses/bachelor-of-arts-ba-criminology-and-police-administration/how-to-become-a-police-officer-after-12th>]

1. Role of a Police Officer

A Police Officer keeps people safe, maintains law and order, investigates crimes, handles emergencies, and builds trust in the community.

2. How to Become a Police Officer

After 12th, candidates can take the SSC GD exam. After graduation, they can appear for UPSC IPS or SSC CPO exams.

- Staff Selection Commission (SSC GD & SSC CPO)
- Union Public Service Commission (UPSC IPS)

3. Best Courses for Preparation

Candidates can complete graduation in any stream. Helpful courses include BA in Sociology, BA in Criminology, and BA in Political Science.

4. Salary of a Police Officer in India

Starting salary is about INR 3.60 LPA.

Average salary is between INR 10–14 LPA.

Highest salary can go up to INR 24 LPA.

How to Become Police Officer after 12th: Quick Facts

Eligibility	Completed 10+2 from a recognized board
Starting Salary	INR 3.67 LPA
Average Salary	INR 10 LPA – 14 LPA
Highest Salary	INR 24 LPA
Entrance Exams	IPS, SSC GD, SSC CPO

Eligibility After 12th

- Must be a citizen of India.
- Must pass 10+2 with at least 50% marks.
- Age should be 18–25 years.
- Must meet required physical standards (height, weight, fitness).

Steps to Become a Police Officer

- First, pass 10+2.
- Apply for police constable posts in state police or through SSC.
- Clear written exam and physical test.
- For higher posts like IPS, complete graduation and clear exam by Union Public Service Commission.

Courses After 12th

- No specific course is required.
- Criminology, Sociology, and Political Science are helpful subjects.

Parameters	Criminology Courses	Sociology Courses	Political Science Courses
Eligibility Criteria	Graduation Degree from any recognised college or university	Graduation Degree from any recognised college or university	Graduation Degree from any recognised college or university
Duration of the course	3 Years	3 Years	3 Years
Entrance exams required	CUET & SET	CUET & SET	CUET & SET
Fees	INR 500 to INR 5,000	INR 500 to INR 5,000	INR 500 to INR 5,000
Average Salary	INR 3.67 LPA	INR 3.67 LPA	INR 3.67 LPA
Top government Colleges	University of Lucknow, Rashtriya Raksha University, Bangalore University	Gujarat Vidyapeeth, LD Arts College Ahemdabad, Jamia Millia Islamia University	Lady Shri Ram College for Women, Miranda House, Presidency College
Top Private colleges	CMS College of Science and Commerce Coimbatore, St. Thomas College, TISS Mumbai	Christ University, Amity University Noida, Mewar University	Christ University, Amity University Noida, Kristu Jayanti College

To become a Police Officer, candidates must clear these main exams:

- **SSC GD Exam** – For Constable posts after 12th.
- **SSC CPO Exam** – For Sub-Inspector posts.
- **UPSC IPS Exam** – Conducted by Union Public Service Commission to become an IPS officer.

Entrance Exam	Conducting Body	Mode
IPS	UPSC	Pen and Paper
SSC GD	SSC	Online
SSC CPO	SSC	Online

Top Colleges for Police Officers

There is no specific college required to become a Police Officer in India. Students can study in any college and choose any course. Some top colleges offer helpful courses, and their details with fees are listed separately.

Name of the College	Average Fees
Jyoti Nivas College	INR 20,492
Gujarat Vidyapith	INR 11,380
Chhatrapati Shahu Ji Maharaj University	INR 39,293
Jadavpur University	INR 2,400
Christ University	INR 50,000
Madhya Pradesh Bhoj University	INR 3,612
Ranchi University	INR 2,850
Barkatullah University	INR 9,795
LD Arts Colleges	INR 1,085
Jaipur National University	INR 38,300

Skills Required to Become a Police Officer after 12th

To become a Police Officer, a candidate needs proper education and important job-related skills. These skills help build a strong career and understand police duties better.

Empathy	Critical Analysis	Observation of Details
Communication Between People	Courage	Teamwork
Moral Attitude	Public Awareness	Physical Endurance
Active Listening	Community Awareness	Interpersonal Communication

Benefits of Becoming a Police Officer

- **Job Security** – Police jobs are stable and secure.
- **Salary and Benefits** – Officers get monthly salary, health insurance, paid leave, and retirement benefits.
- **Promotion Opportunities** – Officers can grow and get promotions based on performance and leadership.
- **Skill Development** – Officers receive training in conflict handling, firearms, and crisis management.
- **Retirement Benefits** – Pension is provided after retirement for financial security.

Salary After 12th

- Salary depends on rank, department, location, and experience.
- Higher experience and position mean higher salary.

Experience Gained	Average Annual Salary (INR)
0 - 5 years	3.60 L
6 – 10 years	7.90 L
11 – 15 years	10.40 L
16 – 20 years	12.03 L
20 years and above	17 L & above

How to Become a Police Officer after 12th: FAQs

Ques. At what level Police Officers are recruited?

Ans. Police Officers are recruited in state police and central forces like Central Reserve Police Force, Border Security Force, and CID.

Ques. What is the eligibility criterion to become a Police Officer in India?

Ans. Eligibility depends on the education rules of the exam authority.

Ques. Which regulating body conducts an exam for becoming a Police Officer?

Ans. Exams are mainly conducted by Union Public Service Commission or Staff Selection Commission.

Ques. What is the allowance that Police Officers get during the period of their tenure in India?

Ans. Officers get allowances like travel, dearness, medical, government quarters, and ration.

Ques. Can I pursue any PG course after getting the job as a Police Officer?

Ans. Yes, officers can pursue PG courses like Criminology, Law Enforcement, Sociology, or Political Science.

Ques. What course can we pursue after 12th to become a Police Officer?

Ans. After 12th, helpful courses include BSc Criminology, Psychology, Sociology, or BA LLB.

Ques. What are the different ranks in the police department?

Ans. Police ranks (lowest to highest): Constable, Head Constable, Sub-Inspector, Assistant Police Inspector, Inspector, Deputy Superintendent, Deputy Commissioner.

Ques. What ranks are available to the candidate who has only a 12th degree class?

Ans. After 12th, posts like Constable, Head Constable, and Assistant Sub-Inspector are available

Ques. What is the minimum percentage required to give SSC and UPSC exams?

Ans. For SSC and UPSC exams, graduation with at least 50% is required.

Ques. Why training is important after the selection of a Police Officer?

Ans. Training is important to learn law, fitness, weapons, and investigation skills.

CHAPTER -- 45

INDIAN POSTAL SERVICES

<https://rozgar.com/blog/government-job-in-the-postal-department>

Government post office jobs in 2024 offer secure and rewarding careers. The Indian Postal Service provides many job options in the postal department. This guide explains the roles, eligibility, and how to apply for these jobs.

Government Job in the Postal Department

1. Postman/Mail Guard: Postman or Mail Guard is a common government post office job. They deliver letters and parcels to homes and offices. The required qualification is 10th or 12th pass, depending on the post. Salary is ₹18,000 to ₹25,000 per month.

2. Postal Assistant / Sorting Assistant:

Work includes sorting, weighing, and processing mail in post offices.

Qualification: 12th pass with basic computer knowledge.

Salary: ₹20,000–₹30,000 per month.

3. Gramin Dak Sevak (GDS): Works in rural areas, handles mail delivery and post office tasks.

Qualification: 10th pass and knowledge of local language.

Salary: ₹15,000–₹22,000 per month.

4. Postal Accountant: Manages accounts, cash, and financial records in post offices.

Qualification: B. Com or equivalent degree.

Salary: ₹30,000–₹45,000 per month.

5. Postal Superintendent: Supervises post offices, staff, and operations.

Qualification: Bachelor's degree and work experience in postal services.

Salary: ₹40,000–₹60,000 per month.

6. Inspector (Posts): Inspects post offices, checks rules, and conducts audits.

Qualification: Degree and at least 3 years of postal experience.

Salary: ₹45,000–₹70,000 per month.

Scope and Growth in Postal Department Jobs

1. Extensive Network: India has a large postal network, creating many job opportunities.

2. Diversification of Services: Postal services now include banking, logistics, and digital services, creating new jobs.

3. Rural Outreach: GDS jobs help provide services in rural areas and offer growth opportunities.

4. E-commerce Boom: Growth of online shopping increases demand for delivery and logistics staff.

5. Technological Advancements: New technology creates jobs in IT, data, and system management.

6. Career Growth: Employees can get promotions from entry-level to higher posts.

7. Job Security and Benefits: Jobs offer stability, benefits, and pension plans.

8. Expansion of Services: New services like financial inclusion and e-governance create more job opportunities.

Conclusion: Government post office jobs in 2024 offer stable and long-term careers with good salary, job security, and benefits. There are many roles like delivery, sorting, accounting, and supervision. For latest vacancies and applications, candidates can check Rozgar.com.

Frequently Asked Questions

1. Is there some sort of competence tests that must be taken before taking up a government post at the post office?

1. Competence tests: Yes, most postal jobs require clearing entrance or recruitment exams.

2. Is the Government Post Office Job only limited to some particular age limit?

2. Age limit: Yes, age limits depend on the post. Age relaxation is given for some categories.

3. What Sorts of Searching Procedures Have Government Jobs in the Postal Department?

3. Selection process: Selection may include written exams, skill tests, physical/medical tests, and interviews.

4. Are the public services recruited through any reservation policy in the post office sector?

4. Reservation policy: Yes, reservation is given to SC, ST, OBC, and PwD as per government rules.

5. How can I stay updated on the latest Government Post Office Vacancy?

5. Stay updated: Check the official Indian Postal Service website, job portals like Rozgar.com, and register for job alerts.

CHAPTER -- 46

Information Technology: Jobs After 12th

Here, we have explained **Top 6 high scope or career-oriented Jobs After 12th:**

1. Information Technology: Jobs After 12th

IT is a rapidly growing field and includes very wide career opportunities after 12th.

Popular IT careers that you can start after 12th grade:

Web Developer	Data Entry Operator
Software Tester	Graphic/UI Designer

Tips for getting started in an IT career after 12th grade:

Take IT courses in high school	Build a portfolio
Get certified	Network with people in the IT industry
Do internships	

2. Indian Army: Jobs After 12th

The Army is a respected and promising government job after 12th. It offers job security, good salary, and many benefits. You can join through the NDA exam or by qualifying in Army rallies after 12th.

Entry-level positions in the Indian Army after 12th grade:

Soldier (General Duty)	Soldier Clerk
Soldier Technical	Soldier Tradesman
Soldier Nursing Assistant	

Eligibility criteria for joining the Indian Army after 12th grade:

Must be a citizen of India	Must have passed 12th grade from a recognized board
Must be between 17.5 and 21 years of age	Candidate must pass all the physical tests.

Tips for preparing for a career in the Indian Army:

Start preparing early	Practice for the written exam.
Stay physically fit	Be confident and motivated

3. Creative and Media Jobs After 12th

This field is for people who love creativity, storytelling, and design.

Career Options:

- **Content Writer:** Writes blogs, articles, and content; can work as a freelancer.
- **Video Editor:** Edits videos for different platforms using special tools.
- **Graphic Designer:** Creates designs for print and digital media; works with developers.
- **Photographer:** Takes photos for fashion, events, media, and ads.
- **Animator:** Creates animated content for films, TV, games, and online platforms.

Qualities Needed:

Creativity, software skills, teamwork, independence, good communication, and ability to adapt to new trends.

4. Merchant Navy

Merchant Navy ships carry goods and oil between countries. Workers stay away from family for a long time and must be physically fit. After a 6-month diploma, you can work as GP Rating, Commercial Diver, or Marine Catering staff. The average GP salary is ₹12,000–₹18,000 per month.

5. Sales & Marketing Jobs After 12th

This field is good for people with strong communication and convincing skills.

Career Options:

- **Sales Representative:** Sells products and closes deals.
- **Marketing Specialist:** Plans and runs marketing campaigns.
- **Content Marketing Specialist:** Creates online content to attract customers.
- **Public Relations Specialist:** Manages company image and media relations.
- **Social Media Manager:** Handles and plans company social media activities.

6. Data Entry Jobs After 12th

Data Entry Operators type and enter data into computers. It is an indoor desk job that needs typing speed and basic computer skills. Jobs are available in private and government sectors. The starting salary is ₹10,000–₹12,000 per month.

Jobs After 12th for Science, Commerce and Arts with Salary

Here is a list of jobs after 12th for Science, Commerce, and Arts streams with their professions and average salaries. Some of the best stream-wise job options are given below.

Stream	Average Salary (INR)	Profession
Science	10-20 LPA	Doctor
Science	5-10 LPA	Software Engineer, Data Scientist, Mechanical Engineer, Civil Engineer,

		Electrical Engineer, etc.
Science	3-5 LPA	Business Analyst, Management Trainee, Human Resources Manager, etc.
Science	5-7 LPA	Statistician, Data Analyst, Research Analyst, etc.
Science	4-6 LPA	Software Developer, Web Developer, System Analyst, etc.
Commerce	3-5 LPA	Business Analyst, Management Trainee, Human Resources Manager, etc.
Commerce	3-5 LPA	Accountant, Auditor, Financial Analyst, etc.
Commerce	10-20 LPA	Accountant, Auditor, Financial Analyst, etc.
Commerce	10-20 LPA	Company Secretary, Compliance Officer, Legal Advisor, etc.
Arts	3-5 LPA	Content Writer, Journalist, Teacher, etc.
Arts	3-5 LPA	Graphic Designer, Web Designer, Animator, etc.
Arts	5-10 LPA	Advocate, Lawyer, Judge, etc.

FAQs on Government and Private Jobs After 12th

1. How can I earn money after 12th?

There are many ways to earn money after 12th, even if you don't want to work in AI or pursue further education. Here are a few ideas:

Freelance writing or editing	Customer service representative
Social media management	Sales associate
Virtual assistant	Tutor

2. Are there any jobs available in banks after class 12?

After completing 12th Commerce, you can apply for a bank clerk job. For example, State Bank of India and Punjab National Bank select clerk candidates through entrance exams.

CHAPTER – 47

Government Jobs for 12th For Arts Students

<https://rozgar.com/>

Government jobs are rewarding and satisfying for 12th Arts pass students. The Indian government offers many opportunities for Arts graduates.

Why Pursue Government Jobs After 12th Arts?

These jobs are **secure**, offer **good salary and allowances**, and provide **career growth**.

Suitability for Arts Students

Arts students have skills in **communication, analysis, and critical thinking**, which fit well with government job roles.

List of Government Jobs After 12th Arts Stream

Here is a comprehensive list of **government jobs** after 12th Arts stream:

Job Title	Qualification	Salary Range (INR)
Police Constable	12th pass	21,700 - 69,100
Clerk	12th pass with typing proficiency	19,900 - 63,200
Stenographer	12th pass with proficiency in stenography	25,500 - 81,100
Postal Assistant	12th pass	21,700 - 69,100
Lower Division Clerk (LDC)	12th pass	19,900 - 63,200
Office Assistant	12th pass	18,000 - 56,900
Forest Guard	12th pass	21,700 - 69,100
Revenue Inspector	12th pass	25,500 - 81,100
Assistant Librarian	Bachelor's degree in library science	25,500 - 81,100
Tourist Guide	12th pass with knowledge of local history and culture	21,700 - 69,100

On a general note, the salaries as discussed above are only a reference and may differ based on the government department and location as well as experience.

Arts Stream Government Jobs list with Salary

Here is the list of **government jobs** after 12th Arts stream with salary that you can look up on:

- 1. Police Constable:** Maintains law and order, patrols areas, and protects people.
 - **Salary:** ₹21,700 – 69,100/month
- 2. Clerk:** Handles administrative work, filing, records, and office tasks. Requires typing and computer skills.
 - **Salary:** ₹19,900 – 63,200/month
- 3. Stenographer:** Takes dictation, types documents, and assists executives.
 - **Salary:** ₹25,500 – 81,100/month
- 4. Postal Assistant:** Manages mail, assists customers, and ensures postal operations run smoothly.
 - **Salary:** ₹21,700 – 69,100/month
- 5. Lower Division Clerk (LDC):** Performs clerical duties like filing, record keeping, and correspondence.
 - **Salary:** ₹2,38,400 – 7,76,800/year
- 6. Office Assistant:** Executes general office duties like data entry, filing, and receiving visitors.

- **Salary:** ₹18,000 – 56,900/month
- 7. Forest Guard:** Protects and patrols forests, preserves natural resources, and enforces environmental laws.
- **Salary:** ₹21,700 – 69,100/month
- 8. Revenue Inspector:** Maintains land records, collects revenue, and resolves grievances.
- **Salary:** ₹25,500 – 81,100/month
- 9. Assistant Librarian:** Supports librarians, manages library materials, and helps with research guidance. Requires BA/BS in Library Science.
- **Salary:** ₹25,500 – 81,100/month
- 10. Tourist Guide:** Provides historical and local site guidance to tourists. Knowledge of local language and heritage is important.
- **Salary:** ₹21,700 – 69,100/month

Conclusion

12th pass students in Arts have many government job options, from clerical to forest, tourism, and library roles. Jobs are secure, pay well, and offer growth opportunities. Government job listings and applications can be found on platforms like **Rozgar.com**, which provide details on qualifications, salary, and application process.

Frequently Asked Questions

- Which is the least qualification required to work in various government fields after 12th Arts?

A. **Minimum Qualification:** 12th pass from a recognized board. Some posts may need extra skills or certificates.
- Is there any age restriction as to when to apply to the government after 12th arts?

A. **Age Restriction:** Yes, usually 18–30 years. It may vary by job and category.
- Can I apply for government jobs in other states if I have completed 12th Arts from a different state?

A. **Other States:** Yes, you can apply in other states, but you must meet their eligibility rules.
- How to increase the number of government jobs after the 12th Arts?

A. **Increase Job Chances:** Prepare well for exams, improve skills (typing, computer, communication), and apply regularly.
- Does any government provide a reservation policy for jobs after 12th Arts?

A. **Reservation Policy:** Yes, the government provides reservation for SC, ST, OBC, EWS, and other eligible categories as per rules.

CHAPTER – 48.

Highest Paying Jobs in India

[<https://moneyview.in/insights/top-10-highest-paying-jobs-in-india>]

Choosing the right career is very important for college students. India has many job options, but salary is a key factor. This guide lists the highest-paying jobs in India to help you choose the best career for your future.

Top Highest Paying Jobs in India

With many industries and job roles available, choosing the right one can be confusing. This article lists some of the highest-paying jobs in India from different fields to help you decide.

List of Highest Paying Jobs in India

• Project Manager	• Machine Learning Engineer	• Product Manager	• Full Stack Software Developer	• Standard Chartered Careers
• Blockchain developer	• General Surgeon	• Data Scientist	• Management consultant	• AI engineer

Project Manager (Role Summary):

A project manager plans and manages a project from start to finish. They handle teams, resources, time, budget, and quality.

Experience Required: At least 2 years of related work experience.

Skills Required: Good leadership, risk management, and problem-solving skills.

Qualification Required: PMP certification from a college or online course.

Average salary in India - ₹ 15L/Year

2. Machine Learning Engineer

Machine Learning Engineer (Role Summary):

A machine learning engineer builds and improves systems that learn from data to solve complex problems.

Skills Required: Knowledge of NLP, data modeling, evaluation, and software engineering.

Qualification Required: Degree in computer science, mathematics, or a related field.

Programming Knowledge: Familiar with Python, Java, and R.

Average Salary in India: ₹10 lakh per year.

3. Product Manager

Role: Manages a product from idea to launch and connects teams.

Skills: Data collection and analysis skills.

Qualification: Master's degree in management.

Average Salary: ₹19 lakh per year.

Full Stack Software Developer

Role: Works on both front-end and back-end development.

Skills: Knowledge of HTML, CSS, JavaScript, AJAX, PHP.

Qualification: Bachelor's degree in related field.

Experience: Experience in deploying and maintaining web apps.

Average Salary: ₹10 lakh per year.

Chartered Accountant (CA)

Role: Handles tax, auditing, and financial advice.

Qualification Process:

- Complete CA Foundation after 12th.
- Pass CA Intermediate.
- Complete Articleship and pass CA Final.

Skills: Strong knowledge of accounting and finance.

Average Salary: ₹13 lakh per year.

Blockchain Developer

Role: Develops and maintains blockchain systems or apps.

Types: Core blockchain developer and blockchain software developer.

Skills: Knowledge of Solidity, Java, C++, Python, HTML, CSS, JavaScript.

Other Skills: Problem-solving and creative thinking.

Average Salary: ₹10 lakh per year.

General Surgeon

Role: Performs surgeries and cares for patients before and after surgery.

Qualification: MBBS + NEET PG + MS degree.

Average Salary: ₹12 lakh per year.

Data Scientist

Role: Collects, cleans, and analyzes data to solve business problems.

Qualification: Degree in data science, statistics, computer science, or related field.

Average Salary: ₹19 lakh per year.

Management Consultant

Role: Helps companies solve business problems and improve performance.

Qualification: Bachelor's in business administration/management.

Extra Advantage: Master's degree or CMC certification.

Average Salary: ₹24 lakh per year.

AI Engineer

Role: Builds and manages AI systems and models.

Skills: Python, R, Java, C++, statistics, linear algebra.

Tools Knowledge: Spark, Hadoop, MongoDB.

Average Salary: ₹11 lakh per year.

How to Choose the Right Career

Identify Interests: Know what you enjoy doing.

Assess Skills: Understand your strengths and weaknesses.

Research Options: Check job roles, salary, and requirements.

Make Decision: Choose a career path (can change later).

Gain Experience: Do internships or volunteer work.

Conclusion: High-paying jobs exist in technology, healthcare, finance, and management. These jobs need good education, skills, and dedication. Choose a career based on salary, interests, skills, and long-term goals.

Top 10 Highest Paying Jobs in India for 2024 - Related FAQ

Q. Which Jobs Are Most Likely to Have High Salaries in India?

A. High-Salary Jobs: Data Scientists and AI Engineers are expected to earn high salaries. Business Analysts, Management Professionals, and Product Managers will also stay in demand.

Q. Which Jobs Will Be More In Demand In 2030?

A. 2030 High-Demand Jobs: AI roles, home health aides, renewable energy, and augmented reality jobs may grow.

Q. Which Jobs Pay Rs.5-10 Lakh in A Month In India?

A. Jobs Paying ₹5–10 Lakh Per Month: Machine Learning Engineers, AI Engineers, and Cloud Architects can earn up to ₹10 lakh per month.

Q. What jobs won't exist in the future?

A. Jobs That May Decline: Travel agents, typists, and data entry jobs may reduce due to technology.

CHAPTER – 49.

12th Pass Govt Jobs in Telangana: Vacancies in Police, Railways & Other Departments

[<https://testbook.com/12th-pass-govt-jobs-in-telangana>]

If you have passed 12th from a recognized board, you can apply for some government jobs. This article gives information about the latest government jobs in Telangana for 12th pass students. Read it to find a suitable job for you.

- Many organizations regularly announce jobs for different education levels.
- Jobs are available for both experienced people and freshers.
- 12th pass students from Telangana can check many job opportunities.

12th Pass Govt Job Vacancies in Telangana

Central and state government departments hire 12th pass candidates for posts like LDC, Junior Assistant, Postal Assistant, Data Entry Operator, and Constable. This article gives details about the latest 12th pass government jobs in Telangana in different sectors.

Exam Name	Post Name	Number of vacancy
SSC Stenographer	Stenographer	2006
Telangana Police Constable	Constable	16929
SSC CHSL	N/A	N/A
Telangana High Court Record Assistant	Record Assistant	97
TSPSC FBO	Forest Beat Officer	1393
Telangana High Court Examiner	Examiner	66
TELANGANA POLICE	Constable, SI	17291
TSPSC Constable	Constable	17156

12th Pass Government Job Salaries in Telangana

12th pass candidates get entry-level salary in government jobs. They receive basic pay plus allowances like HRA, travel allowance, and dearness allowance. Government jobs in Telangana also give social respect and self-esteem.

Exam Name	Post Name	Salary
SSC Stenographer	Stenographer	Rs. 5200 – 34800
Telangana Police Constable	Constable	24280 – 72850
SSC CHSL	N/A	19,900 - 92,300
Telangana High Court Record Assistant	Record Assistant	22240 – 67300
TSPSC FBO	Forest Beat Officer	16400 – 49870
Telangana High Court Examiner	Examiner	Rs 22,900 - Rs. 69,150
TELANGANA POLICE	Constable, SI	24280 – 115270
TSPSC Constable	Constable	16400 – 49870

Central Govt 12th Pass Jobs in Telangana

12th pass candidates can apply for central government clerical jobs like LDC and Junior Secretariat Assistant.

Departments like Central Public Works Department, Indian Army, Central Industrial Security Force, Indian Railways, and India Post recruit for these posts.

State Govt 12th Pass Jobs in Telangana

12th pass candidates can apply for state government clerical jobs. Organisations like Telangana High Court, Adilabad District Cooperative Central Bank Ltd, Electronics Corporation of India Limited, and Telangana Public Works Department hire for these posts.

Exam Name	Post Name	Salary
SSC Stenographer	Stenographer	Rs. 5200 – 34800
Telangana Police Constable	Constable	24280 – 72850
SSC CHSL	N/A	19,900 - 92,300
Telangana High Court Record Assistant	Record Assistant	22240 – 67300
TSPSC FBO	Forest Beat Officer	16400 – 49870
Telangana High Court Examiner	Examiner	Rs 22,900 - Rs. 69,150
TELANGANA POLICE	Constable, SI	24280 – 115270
TSPSC Constable	Constable	16400 – 49870

12th Pass Jobs in Telangana Police

12th pass candidates can apply for jobs in Telangana Police as Police Constables (Group C). Other police organisations also hire 12th pass candidates for posts like Constable (Fire). This article lists recent police jobs in Telangana for 12th pass candidates.

Exam Name	Post Name	Salary
SSC Stenographer	Stenographer	Rs. 5200 – 34800
Telangana Police Constable	Constable	24280 – 72850
SSC CHSL	N/A	19,900 - 92,300
Telangana High Court Record Assistant	Record Assistant	22240 – 67300
TSPSC FBO	Forest Beat Officer	16400 – 49870
Telangana High Court Examiner	Examiner	Rs 22,900 - Rs. 69,150
TELANGANA POLICE	Constable, SI	24280 – 115270
TSPSC Constable	Constable	16400 – 49870

Defence Jobs in Telangana for 12th Pass

Departments under the Ministry of Defence and armed forces hire 12th pass candidates for posts like Clerk, Stenographer, Soldier General Duty, Soldier Nursing Assistant, and LDC. Recent 12th pass defence jobs in Telangana are listed below.

How To Get Government Jobs in Telangana after 12th

- Appear for major exams like Staff Selection Commission CHSL for central government jobs.
- Write the Telangana SSC exam for state government jobs.
- Regularly check and apply for police, defence, and other department vacancies.
- Prepare well for exams to increase your chances of selection.

12th Pass Govt Jobs in Telangana FAQs

1. What are the Government job opportunities for 12th Pass candidates in Telangana?

12th pass candidates can get clerical, police, defence, postal, and railway jobs in central and state government departments.

2. What is the salary for 12th pass Government jobs in Telangana?

They get entry-level basic pay plus allowances like HRA, travel allowance, and dearness allowance.

3. What are the job opportunities in police departments for 12th pass candidates in Telangana?

They can apply for Constable posts in Telangana Police and other police departments.

4. What are the SSC jobs in Telangana for 12th pass candidates?

Through Staff Selection Commission exams like CHSL, they can get jobs like LDC, Data Entry Operator, and Junior Assistant.

5. What is the 12th Pass Govt Jobs in Telangana available in Defence organisations?

Under the Ministry of Defence, they can get jobs like Clerk, Stenographer, Soldier General Duty, and Nursing Assistant.

CHAPTER – 50

12th Pass Jobs in Hyderabad - Vacancies, Salary, Selection Process

[<https://testbook.com/govt-jobs-in-hyderabad-for-12th-pass>]

After 12th, students in Hyderabad have many private and government job options. They can find job details like salary, qualification, and how to apply.

All About 12th Pass Jobs in Hyderabad

12th pass freshers can get jobs with basic English and computer skills. They can work in private jobs and also apply for government posts.

Top Sarkari Jobs for 12th Pass in Hyderabad

The government offers many exams for 12th pass students. Students must check official websites for updates and exam details regularly.

12th Pass Government Jobs in Hyderabad	Minimum Eligibility Criteria
SSC Combined Higher Secondary Level (CHSL)	18-27 years and 10+2
Central Armed Police Forces (CAPF)	18-25 years, 10+2 and physical/medical requirements
GPSSB Junior Clerk	Up to 36 years, 10+2, proficiency in Gujarati/Hindi
RRB NTPC	18-33 years, 12th pass or Graduation
SSC Stenographer	18-32 years, 10+2
Indian Coast Guard	18-22 years, 12th pass with Mathematics and Biology
Technical Entry Posts	10+2, PCM/B with minimum 45-60%

Non-Technical Entry Posts	12th pass in any stream with minimum 45-55%
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12th Pass Jobs in Hyderabad for Freshers

Every year, many jobs are open for 12th-pass students in Hyderabad. These jobs give stipend, experience, and income. Students can apply in private and government sectors. Before applying, they must check eligibility and prepare well by knowing the exam pattern and syllabus.

Data Entry Operator	Police Constable
Stenographer	Customer Service Representative
Tele caller	Makeup Artist
Front Office Executive	Content Writer
Personal Secretary	Passport Checker
Business Process Outsourcing (BPO)	Railway Constable
Photographer	Gym Trainer
NGOs	Event Planner and Manager

12th Pass Jobs in Hyderabad for Females

Women in Hyderabad who passed 12th have many government job options. Sectors like SSC, state and central government, banks, police, and railways offer posts such as Stenographer and Constable. Some jobs have special seats for women and provide good salary and benefits.

12th Pass Govt. Jobs in Hyderabad for Female

IB Security Assistant
IAF Agneepath Agni veer Vayu (only class 12th Science students)
SSC General Duty Constable
IBPS Specialist Officers
CEERI Junior Secretariat Assistant
CEERI Junior Stenographer
PLW Indian Railway Apprentice
Food Corporation of India Stenographer Grade II
ITBP Head Constable (Dresser Veterinary)
ITBP Head Constable (Motor Mechanic)

12th Pass Jobs Private Sector for Females in Hyderabad

Besides these jobs, 12th pass female candidates can also find many opportunities in the private sector. Some popular private job options for females are listed below.

Front Office Executive	Makeup Artist
Tele calling Executive	Beauty Assistant
Sales Assistant	Personal Secretary/Assistant
Customer Service Executive	Content Writer
Account Assistant	Education Counsellor
Data Entry Operator	Tutor
Quality Control Supervisor	Typist
Lab Assistants	Copyist

12th Pass Jobs in Railways in Hyderabad

Indian Railways provides many jobs for 12th pass students with good pay and benefits. Interested candidates can apply on the official recruitment website.

12th Pass Jobs in Railways in Hyderabad	
RRB NTPC	RRB ALP
Ticket Clerk	Technicians
Accounts Clerk cum Typist	SER Recruitment
Junior Timekeeper	

Bank Jobs in Hyderabad (12th Pass)

- Bank jobs are safe and popular for 12th pass freshers.
- Many banks offer jobs that need 12th qualification and basic computer knowledge like MS Office.
- Top jobs include roles in State Bank of India, Federal Bank, and ICICI Bank.
- These are good job options for freshers in Hyderabad.
- 12th pass students can also apply for private bank jobs.
- Jobs like Stenographer, Data Entry Operator, Telecaller, and Front Office Assistant are available.
- Candidates should check latest job notifications and exam dates regularly.

Online Jobs for 12th Pass in Hyderabad

- 12th pass students can start entry-level online jobs.
- These jobs help earn extra money and gain experience.

- No experience is needed, only basic skills.
- Many work-from-home and online job options are available in Hyderabad.

Digital Marketing	Teacher
Content Writing	Language Trainer
Graphic Design	Customer Service Representative
Fashion Design	International Voice Calling
Social Media Marketing	Social Media Influencer
Blogging	Coding
SEO Analyst	Content Strategist
Data Entry Operator	Sales Caller
Business Development Executive	Beauty Consultant

Online Jobs for 12th Pass

- You can work from home in these jobs.
- New online jobs for 12th pass students come daily.
- Students should regularly check updates and apply as per interest.

How to Find 12th Pass Jobs in Hyderabad?

Step 1 – Make a List of Jobs

- Research and list jobs you like and are eligible for.
- Check official websites for new vacancies every week.

Step 2 – Visit Official Website

- Go to the official website of the job.
- Check if applications are open.

Step 3 – Download Notification

- Download the recruitment notification.
- Read all important details carefully.

Step 4 – Check Eligibility

- Check the eligibility section in the notification.
- Make sure you meet all requirements before applying.

How to Apply for 12th Pass Job Vacancy in Hyderabad?

Step 1 – Visit Official Website

- Go to the official website of the recruiting organization.
- Read the notification before filling the form.

Step 2 – Find Application Link

- Register on the website if the portal is open.
- Create an account using your basic details and OTP.

Step 3 – Login and Fill Form

- Login to your account.
- Fill in personal, education, and other required details.

Step 4 – Upload Documents

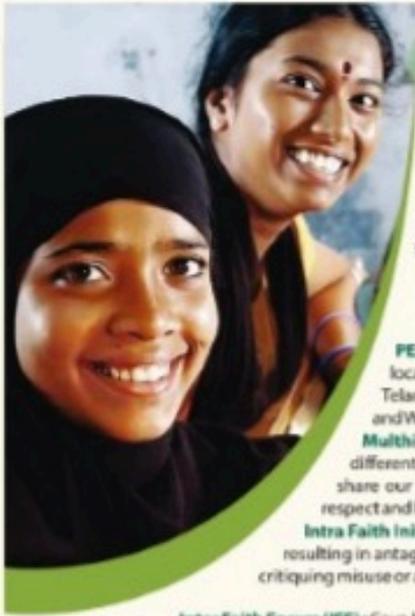
- Upload photo, signature, certificates, and ID proof.
- Resize documents if needed before uploading.

Step 5 – Submit Application

- Submit the form after checking all details.
- Pay the application fee if required.

Final Note

- The application process may differ for each job.
- Always check the official instructions carefully.



Communal harmony, equity and global peace through sensitization of all sections of society and empowerment of the poor and marginalized.



COVA (Confederation of Voluntary Associations), is a national network of voluntary organisations working for communal harmony and community empowerment in India and peace in South Asia. COVA is also engaged with multipateral bodies like the United Nations Organisation, G20, BRICS, SAARC and others for structural transformations of the world order to make society more equitable, sustainable, just and peaceful.

MAJOR INITIATIVES IN THE JOURNEY OF COVA

PEACE INITIATIVES : Riot Prevention in 42 communally sensitive localities of Hyderabad Formed Peace and Development Networks in Telangana, Andhra Pradesh, Jammu & Kashmir, Gujarat, Uttar Pradesh and West Bengal. Partnering to facilities Citizens Action for Manipur

Multhi Faith Celebration of All Festivals : By inviting our neighbours of different communities to share a meal, share about our core values and share our understanding of the Almighty to create the magic of mutual respect and harmony in society.

Intra Faith Initiatives : All Religions are being weaponized for vested interests resulting in antagonism and violence between communities. Intra Faith Program Involves Faith Leaders of different religious critiquing misuse or abuse of their own religion to ensure it is not weaponised to promote violence in society.



Inter Faith Forum (IFF) : COVA has leaders of different faiths who collectively work for prevention of violence in localities and propagation of useful messages on different social issue like Pulse Polio, HIV, RTE, Accessing services from Government departments etc.

Initiatives in Kashmir : Proposed the idea and facilitated the meeting between Indian Parliamentarians and Hurriyat Leaders in October 2010 that reduced violence in the valley for 4 years.

Peace in South Asia : Flags for Peace Campaign by COVA stands out by setting the trend of spectators waving flags of both India and Pakistan at Cricket matches to communicate message of peace and goodwill in the stadium and to the world through TV channels!

Peace through Cyberspace

- a) COFI (Cyber Operations for Fraternity and Integration) Networks to secure cyberspace for peace.
- b) #CHECKIT - Offers training in decoding and exposing Fake News.

Work with Refugees : There are 8000 refugees in Hyderabad from 9 countries. COVA provides subsistence rations and support for education, livelihood and medical emergencies to the most destitute.

Structural Transformations :

Compassionate Citizenship and Responsible Activism Program

Objective : To take students beyond classroom and textbooks for experiential learning of social issues to make them sensitive human beings and responsible citizens.

Outcome : Students are enable and motivated to live as responsible citizens and Change Champions of their communities. Education Department of the Government of Telangana has incorporated this program in the school curriculum for classes 7th to 9th as part of Moral Education.

Financial Inclusion : Finance Ministry of Government of India incorporated 9 of 12 recommendations of COVA in the banking Sector. Five of these recommendations are included in the MUDRA Scheme. Idea of eMudra was proposed by COVA

Research and Advocacy for Policy Transformations : From Job Seekers to Job Creators : HRD Ministry accepted to include 3 recommendations of COVA in college curriculum to orient students accordingly.



Awards for COVA & Partners: State - National - South Asia - International

THE MAGNIFICENT COALITION OF SOUTH ASIA

"South Asian Coalitions, are not easy to come by and coming together on a rainbow of issues in welcome. I have the privilege of cooperating with COVA on issues concerning peace, Justice Human Rights and good neighborly relations. The contribution of Dr. Mazher Hussain has been simply outstanding. One can only wish them well."

Admiral L. Ramdas,
Former Chief - Indian Navy

Bank Cheque: In Favour of "COVA INDIAN FUNDS"

Foreign nationals please visit the link below for donation

<https://www.covanetwork.org/foreign-donor/>

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