

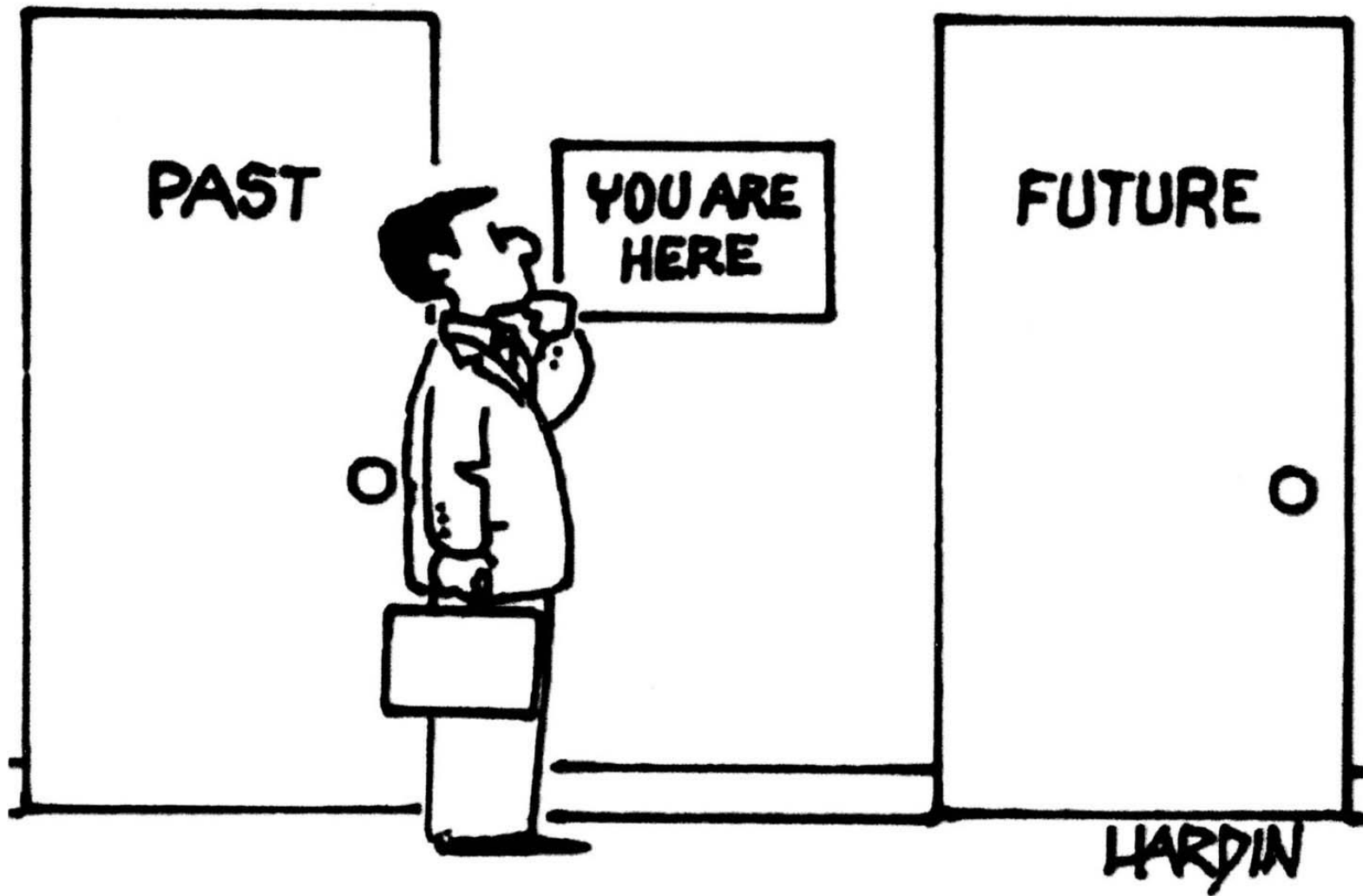
Career Counseling

By:

NATIONAL TRAINING

&

CONSULTANCY



For PCM Students Options

- Engineering
- Physics Based Careers
- Chemistry Based Careers
- Mathematics Based Careers

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- Other (Misc) Careers

PCB Students Route

- Health Care Careers
- Life Science (Biology) Based Careers
- Physics Based Careers
- Chemistry Based Careers

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- Other (Misc) Careers

Physics Based Careers

- B.Sc then M.Sc then Phd

Acoustical Physicist

Astronomer

Medical Physicist

Meteorological Technician

Optical Physicist

College Professor

Science Writer (Journalism)

Career options for Science Students

- **Medicine. (PCB)**
- **Alternative Medicine. (PCB)**
- **Dentistry. (PCB)**
- **Engineering. (PCM)**
- **Biotechnology. (PCB/PCM)**
- **Bioinformatics (PCB/PCM)**
- **Pharmacy. (PCB/PCM)**
- **Paramedical Sciences. (PCB)**

Career options for Science Students

- **Architecture. (PCM/COMMERCE)**
- **Agriculture. (PCB/PCM)**
- **Nursing. (PCB)**
- **Veterinary Science (PCB)**
- **Horticulture (PCB)**
- **Physical Sciences. (Physics., Chemistry) (PCM/PCB)**
- **Life Science (Biology) (PCB)**

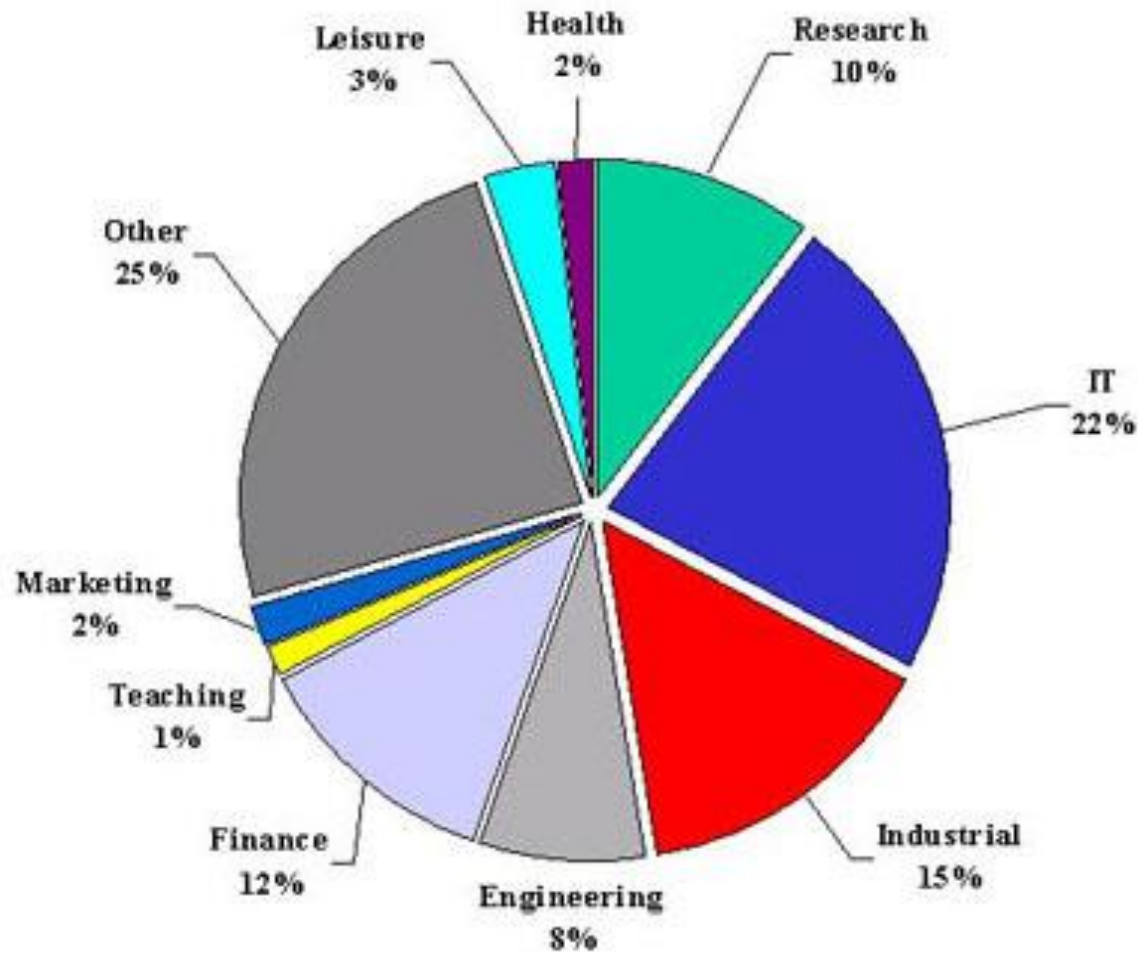
- **Mathematics (PCM)**
- **Home Science (ALL)**
- **Food Technology (PCB/PCM)**
- **Aqua Science. (PCB)**
- **Social Sciences. (Psychology, Rehabilitation Courses) (ALL)**
- **Forensic Science (PCB/PCM)**
- **Marine Science (PCB)**

Career options for Science Students

- **Commercial Pilot. (PCM)**
- **Merchant Navy. (PCM)**
- **Marine Science. (PCB/PCM)**
- **Environment Science. (PCB/PCM)**
- **Information Technology & Science. (PCM)**
- **Disaster Management (PCB/PCM)**
- **Defense Services**

Core Engineering Branches should be preferred

- Civil
- Mechanical
- Electrical/ Electronics
- Chemical



“list of typical sectors where physicists are found”

List of Sectors where Physicists are Found

- Education
- Research
- IT
- Engineering
- Finance
- Marketing
- Health
- Industrial
- Others

Options after a basic degree in Chemistry

- **Management**
- **Environmental Studies.**
- **Pharmacy**
- **Biotechnology**
- **Law**
- **Academics.**
- **Journalism.**
- **Forensic Science.**
- **Food Technology**
- **Nanotechnology**

Careers in Chemistry

- **Agricultural**
- **Biochemistry**
- **Biotechnology**
- **Catalysis**
- **Chemical Information**
- **Chemical Engineering**
- **Chemical Sales and Marketing**
- **Chemical Technology**
- **Colloid and Surface Science**
- **Consumer Product Development**
- **Consulting**

Careers in Chemistry

- **Geochemistry**
- **Hazardous Waste management**
- **Material Science**
- **Medicinal**
- **Oil and Petroleum Chemistry**
- **Polymers**
- **Pulp and Paper**
- **Textiles**
- **Water**

Approach

- **KVPY Exam then Joining IISC , IISE or IIT.**
- **IIT – JEE then Joining IIT.**
- **Govt. Recognized Universities.**
- **SVNIT SURAT**
- **Foreign Universities. (For Post Graduation)**

PATH ONE

The math job you know best:

TEACHING

PATH TWO

Jobs with math as a primary job skill:

(math used daily, math degree is THE critical hiring qualification)

Actuary

Mathematician

Operations Research Analyst

Statistician

PATH THREE

Jobs with math as an essential job skill:

(utilizes math skills and allows professional development)

(senior jobs require advanced degrees)

Marketing Analyst

Research Analyst

Financial Analyst

PATH FOUR

Jobs with math as an important job skill:

**Retail Buyer and Buyer/Merchandiser Trainee
Sales Service Representative
Purchasing Agent**

Institutions

- Govt. Institutions.
- SVNIT – Surat
- TATA Institute of Research

Engineering

- The Best Options in Gujarat

Mechanical

Civil

Electrical

Chemical

Automobile

- Other Options For India

Electronics

I.T.

Misc Careers for **PCM** Students

- Architecture
- Design Careers
- Commercial Pilot
- Merchant Navy
- Pharmacy
- Commerce Careers
- Arts Careers
- I.T. (through BCA or BSC(IT) route)

PCB Students Route

- Health Care Careers
- Life Science (Biology) Based Careers
- Physics Based Careers
- Chemistry Based Careers
- Other (Misc) Careers

Health Care Careers

- Medicine
- Alternative Medicine
- Para Medical Science
- Physiotherapy
- Pharmacy

Entrance Exam Websites

- www.successcds.net
- www.winentrance.com
- www.webindia123.com

Biology Based Careers

- Botanist
- Zoologist
- Horticulture
- Biotechnology
- Bio-Medical Science
- Veterinary Science
- Marine Science
- Aqua Science
- MicroBiology

Other Options for PCB Students

- Home Science
- Bioinformatics

CAREER OPTIONS – COMMERCE STUDENTS

- **Accounting:** Chartered Accountant, Auditor, Cost Accountant, Management Accountant, Tax Accountant.

CAREER OPTIONS – COMMERCE STUDENTS

- **Economics:** Economist, Financial Advisor, Investment Administrator, Economic Journalist, Portfolio Manager, Economic Researcher.
- Bcom then MBA or MBE
- B.A(Eco) then MBE or MBA

CAREER OPTIONS – COMMERCE STUDENTS

- **Finance:** Financial Manager, Portfolio Manager, Merchant Banker, Financial Consultant, Financial Analyst in Banking and/or Insurance, **Chartered Financial Analyst.(CFA after a degree)**
- BFA or BFI then MBA
- B.Com them MBA

Career Options – Commerce Students

- **Information Systems:** Computer Analyst, Computer Consultant, Computer Design, Computer Programmer, Software Specialist
- Bsc(it)/Msc (It)
- BCA/MCA
- DOEACC Courses

Career Options – Commerce Students

- **Law:** Company Secretary, Company Law Specialist, Labour Law Specialist, Tax Law Specialist

After 12th 5 years Law course

- After a degree (B.COM or BBA etc) LLB
- **Management:** Business Administrator, Business Consultant, Human Resource Administrator, Industrial Relations Specialist, Personnel Manager, Training & Development Manager
- BBA then MBA

Career options for Commerce students

- Statistics (Masters)
- Actuarial Science (Masters or Diploma)
- Banking. (Bachelors or Masters)
- Insurance. (Certificate Courses, Bachelors)
- Stock Broking. (Certificate Courses)

GENERAL CAREER OPTIONS WHICH ANY STREAM CAN PURSUE

- MASS COMMUNICATION**
- ADVERTISING**
- JOURNALISM**
- HOTEL MANAGEMENT**
- AIR HOSTESS**
- HUMAN RESOURCE**
- CIVIL SERVICES**
- LIBRARY SCIENCE**

→LAW

→SOCIAL WORK

→MASTER OF BUSINESS ADMINISTRATION

→DESIGNING

INTERIORS

FASHION

JEWELLERY

DIAMOND

VISUAL COMMUNICATION

PRODUCT DESIGN

ANIMATION DESIGN

→TEACHING

- **APPLIED & PERFORMING ARTS**
- **PHOTOGRAPHY**
- **BEAUTY CARE**
- **MODELLING**
- **DISASTER MANAGEMENT**
- **FITNESS TRAINER**
- **TRAVEL AND TOURISM**

-**LIST GOES ON & ON**

Hot Careers Based on Trend

- Animation
- Biotechnology
- Infotech.
- Media & Entertainment
- Education
- Design
- Armed Forces
- Law
- Research & Development

Other Careers

- Engineering
- Health Care
- Pharmacy
- Hotel/Hospitality
- Accounting with Finance.
- Nanotechnology
- Research & Development
- Marketing & Sales

Entrance exams

- LAW
- HOTEL MANAGEMENT
- BBA/BCA (except SG)
- DESIGNING
- CA
- MASS COMMUNICATION

Other Qualities include

- Good physical health.
- Above average intelligence.
- A strong sense of responsibility, with an urge to serve and heal the sick.
- Self-confidence.
- Keen and minute powers of observation.
- Good judgment.
- Patience.
- An amiable and sympathetic temperament.
- Objective approach; tolerance for human feelings.
- Genuine interest in the welfare of patients.
- Cheerful and friendly temperament.

Major Areas of Specialization in Medicine

- General Physician.
- General Surgeon.
- Pediatrics.
- Cardiology.
- Obstetrics and gynaecology.
- Neurology.
- Dermatology
- Ophthalmology
- ENT.
- Orthopaedics
- Psychiatry

Dentistry- Specializations.

- Orthodontics: Deals with straightening and aligning teeth and jaws.
- Periodontics: Specializes in the care of gums and the diseases that might afflict them.
- Operative dentistry: For root canal jobs, fillings and cosmetic surgery.
- Prosthodontics: Involves the making of artificial teeth.
- Oral surgery: Concerned specifically with operations on the mouth and jaw.
- Oral pathologist: Provides the diagnosis for diseases that affect the mouth.
- Implant dentistry: Which involves replacing missing teeth by fitting artificial roots.

Engineering

- A strong analytical mind.
- Ability to ask why.
- Hard working
- Ability of converting theory into ideas.

Study Routes

After XII (PCM)

After Diploma

After B. Sc.

Admissions

Entrance exams

JEE

IIT's

AIEEE

NIT's

State engineering exams CET's

Others

CHARTERED ACCOUNTANCY

One needs to be

- Hard working
- Strong analytical mind
- An eye for detail in numeracy.
- A well organized mind.
- Methodical approach.
- The prolonged training period demands a lot of hard work, determination, motivation and endurance.

C.A.- Role

- A Chartered Accountant is responsible for the financial health of the company and performs a variety of roles from that of the auditor of accounts to a tax consultant. Often this includes the roles of a lawyer, solicitor and even a financial investigator. Chartered Accountants may keep themselves involved in intricate accounting procedures, apply technological innovations to accounting practices, work in financial management, as well as in general management of financial and other organizations or as entrepreneurs.

Eligibility

- CPT after 10+2 with 50% marks
- Graduation in commerce with 50% marks
- Non-commerce graduates with Math need to secure 60% marks

- Non-commerce graduates with subjects other than Mathematics with 55% of the total marks.
- Candidates should not be less than 18 years of age.
- Anyone who has a 10 + 2 with minimum 50% marks can enroll for the CPT

GENETIC ENGINEERING & BIOTECHNOLOGY

Genetic Engineering (GE) is a highly complicated and advanced branch of science, which involves a wide range of techniques used in changing the genetic material in the DNA code in a living organism.

Biotechnology is a research-oriented science, a combination of Biology and Technology. It covers a wide variety of subjects.

Intermediate & Final course

After completing the foundation or graduation one can go for Intermediate. For this, the candidate has to register as an articled clerk with a firm of chartered accountants for undergoing practical training and as a student with the Board of Studies for theoretical education. The candidate is a trainee for a period of three years.

- After twelve months training one can appear for Intermediate examination and during the last six months of training can appear for Final examination.

DETAILS

Personal attributes

To be a successful **genetic engineer**, one must have

- Sharp analytical mind
- An aptitude for research
- High levels of concentration & eye for details
- Abundant physical stamina to put in long hours of work,
- Ability to work as a team and a sound moral sense.

Company Secretary-Ship

The company secretary's work is varied and depends on the size and nature of the company. The duties are mainly classified into three groups.

1. Legal and Financial work
2. Representative of the Management and Registrar
3. General Administration

C.S. - Role

- A Company Secretary is a professional whose role in a corporate set up is that of an advisor for legal matters. He is a very important member of the company's management. He co-ordinates and assists various departments of the organization, ensures compliance of company legislations and advises directors on statutory requirements of the company.

Eligibility

For Foundation Course it is 10+2 or equivalent. For Intermediate course eligibility is Foundation Course or Graduation. (Those who have passed the Final Examination of ICAI or ICWAI are also exempted from Foundation Examination)

Foundation Course is of eight months duration. Intermediate and final examination is to be completed within a period of five years.

Apart from passing exam one has to undergo 15 months apprentice training in a company with paid up share capital of 50 lakhs or under a practicing company secretary. After final exam 15 days secretarial modular training Programme and 15 days specialized agency training is required.

DETAILS

Colleges

- Pharmacy Department, M S University of Baroda, **Baroda 390001**
- Lallubhai Motilal College of Pharmacy, Navrangpura, **Ahmedabad 380009**
- A R College and G H Patel, Institute of Pharmacy, **Vallabh Vidyanagar 388120**, Distt. Kheda., Gujarat State
- Saraswati Vidya Bhawan's College of Pharmacy, Bhandup, **Mumbai 400078**
- Mumbai Educational Trust's Institute of Pharmacy, Bandra (W), **Mumbai 400050**
- Bharati Vidyapeeth's College of Pharmacy, Sector-8, **CBD Navi Mumbai 400614**
Singhania Public School - Fort Songadh ,

Other Institutes

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Chartered Financial Analysis & Cost Accountancy

The Cost and Management Accountants facilitate strategic management decision in respect of economic activities of an organization by their sheer expertise.

The financial analyst keeps an eye on the financial activities of the company and regulate its.

Courses

Certificate course:

(After 12th)

6 months to 1 year

Degree course:

(After graduation)

2 years

Diploma course:

(After graduation)

1 year to 3 years

Post graduate course:

(After graduation)

2 years

INSTITUTES

HOTEL MANAGEMENT

With increasing globalization, career opportunities in this field are not only limited within the country but there are chains of hotels, which operate internationally providing scope of a career abroad.

It is a glamorous profession, which has a bright future. With the growth of hotel industry propelled by foreign and domestic tourism and business travel, the demand for well-trained quality personnel too has grown impressively.

Eligibility

Minimum qualification required to go for a course in hotel management is 10+2. Duration of certificate courses is six months to one year. Bachelor and diploma courses are of duration one and half to three years. Those with graduation can go for postgraduate diploma courses the duration of which is one year.

Admission procedure

Selection to most government-recognised institutes is based on **Common Entrance Test**. Test consists of English, Reasoning, General Science and General Knowledge. The test is of two-hour duration and is held around **April** every year.

The test is followed by a group discussion and interview, in which a person's personality and confidence is seen. Private institutes also conduct tests of their own, the pattern of which is almost the same.

Institutions

1. The Oberoi Center for Learning and Development, 1 Sham Nath Marg, **New Delhi**- 110054;
2. Indian Institute of Hotel Management, Rauza Bagh, **Aurangabad**-01;
3. National Council for Hotel Management and Catering Technology, Pusa, **New Delhi**.
4. Anand Institute of Management Science (AIMS), V.K. Chamber, Near Town Hall, **Anand** - 388 001, Gujarat
5. Institute of Hotel Management, Catering Technology and Applied Nutrition, Govt. Polytechnic Compound, Ambawadi, **Ahmedabad**-15
6. Vivekananda Institute of Hotel & Tourism Management, "Bodhigram", N.H.8/B, Kuvadava Road, Kuchiyadar - 3, Dist. **Rajkot**
7. All India Shri Shivaji Memorial Institute of Hotel Management & Catering Technology, Pune, (Maharashtra) 55/56, Shivajinagar, **Pune** - 05

Other Institutes

MASS COMMUNICATION

COMMUNICATING WITH THE MASS

thru:--

- Advertising
- Journalism
- Public Relation

Advertising

To be successful in the field of advertising, one needs to have:

- A lot of creativity
- Depth knowledge about consumer behavior
- An eye on market
- Continuous learning ability
- Imagination power

Eligibility

Most advertising agencies recruit candidates with a **formal management or advertising/mass communication qualification**. Preference is given for **MBA's** for posts in the market research, client servicing and media planning departments.

In the creative department, on the other hand, a general **BA with a command of the language of communication plus knowledge of designing packages like Photoshop, coral draw or fine arts is the requirement**.

There are also specialized courses in advertising/mass communication at **diploma level** and **postgraduate level** for which basic qualification is **graduation**. However, advertising is also offered as a subject for the graduate **degree course in mass communication studies** at certain institutions for which minimum qualification is **10+2**. In addition there are also **certificate courses** for which **10+2** is enough.

Journalism

Career in journalism is a prestigious profession as well as a highly paid one. Journalists play a major role in the development of nation. It is through them that we get information about daily happenings in the society. The purpose of journalism itself is to inform and interpret, educate and enlighten the people.

Eligibility

Degree course:	10+2
Diploma courses:	graduation
Certificate courses:	10+2
Post graduation courses:	graduation

Admission is through entrance exam followed by GD and PI. For the certificate courses, no such exam is required.

Institutes providing both

- Faculty of Mass Communication, M. S. Uni., Baroda
- Indian Institute of Mass Communications in New Delhi
- Xavier Institute of Communications in Mumbai
- Symbiosis Institute of Journalism & Communications in Pune
 - Sophia College in Mumbai
 - MICA in Ahmedabad
 - K.J. Somaiya Institute of Management Studies and Research in Mumbai
 - NMIMS in Mumbai
 - Bhavnagar University, Bhavnagar,
 - Gujarat University, Ahmedabad,

The institutes which provide advertising also provides journalism and public relation.

Other Institutes

BANKING

The officers should be

- Able to lead their teams, manage and motivate staff.
- Communication skills in speech and writing are vital for their contact with customers and management of their staff.
- Integrity, confidentiality and honesty in all dealings with money, customers and staff is required.

- **Foreign exchange transactions** need an analytical and quick mind.
- **Numeracy** is also important as this work involves figures.
- **Good personal habits** such as neatness, promptness and other traits indicative of a well-organized mind and well-rounded personality are valuable personal qualities of a banker.

STUDY ROUTES

- Graduate Diploma
- Post Graduate Diploma
- BA with banking

Other than these courses some of the banks conduct their own exams.

- Reserve Bank of India / State Bank & Associates / Nationalized Bank
- SBI and other nationalized Banks
- Nationalized Commercial Banks

DETAILS

DESIGNING

- Fashion designing
- Interior designing
- Accessory designing
- Communication designing
- Industrial designing
- Jewellery designing

PERSONAL FACTORS

Fashion designers should be

- Artistic, creative and must have imagination.
- Flair for creating with fabrics and know-how of textiles is important.
- Fashion conscious and aware of market requirements.
- An understanding of the market and customer lifestyle is required, so that designs are suitable for people they are made for.

Designers must be

- Good communicators
- Should be able to work with the design staff.
- Selling a design requires an ability to persuade and influence.
- Self-employed/freelance designers need business acumen.
- Highly original and inventive.
- Observant and must have a good memory.

Jewellery design

Today Jewellery design as a career is steadily grabbing international attention. India has produced award-winning jewellery and accessory designers.

Accessory designers are creative, have an eye for detail, keen observation, fashion awareness and precision. Accessory designing requires working with materials, which are expensive and precious. A meticulous and precise approach is required.

IDI Surat

Eligibility

- Minimum qualification to go for a course in law (LLB) is 10+2. Course duration is of 5 years and is sponsored by the Bar Council Of India.
- 50% in any graduation for the post graduate degree.
- In addition to LL.B. degree, many universities and institutes also offer other diploma courses in several disciplines of law, including Administrative Law, International Law, Labour Laws, Tax Laws and Corporate Laws.

Admission Procedure

- For the 5 year integrated BA. LLB. Course some of the colleges give admissions on merit basis while others take on the basis of entrance test.
- Most of the Government Law colleges & National Law Schools of India take admission based on the **All India Admission Test** on the first Sunday of May each year.

Top ten Law colleges of India

1. National Law School of India University (NLSIU), Bangalore
2. Govt. College of Law, University of Mumbai
3. Faculty of Law, BHU, Varanasi
4. University College of Law, Bangalore
5. Symbiosis Society's Law College, Pune

6. Faculty of Law, AMU, Aligarh
7. Bangalore University for Legal Studies, Bangalore
8. Faculty of Law, University of Delhi, Delhi
9. Faculty of Law, University of Madras, Chennai
10. I L S Law College, Pune

For further details contact:

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