

B.Sc.

What is B.Sc.?

Bachelor of Science (BSc) is an undergraduate degree course usually of three years duration. It is one of the most popular course choices among Science students after Class 12th. Full form of BSc is **Bachelor of Science** (Baccalaureus Scientiae in Latin)

The course is considered as a foundation course for students who want make their career in the field of Science. It is offered in a variety of Science subjects at a majority of universities in India. Some of the popular BSc courses that students usually choose to pursue after Class 12th are BSc Physics, BSc Computer Science, BSc Chemistry, BSc Biology, BSc Mathematics, and so on.

A BSc course can be pursued as both a full-time or part-time course. Students can choose to pursue plain BSc or BSc (Honours). The course is most apt for students who have a strong interest and background in Science and Mathematics. The course is also beneficial for students who wish to pursue multi and inter-disciplinary science careers in future.

After the completion of a BSc degree, candidates can opt to pursue Master of Science (MSc) or even secure admission in a professional job-oriented course.

Popular BSc Branches

[BSc IT \(Information Technology\)](#)

[BSc Computer Science](#)

[BSc Nursing](#)

[BSc Fashion Design](#)

[BSc Animation](#)

[BSc Hospitality](#)

[BSc Biotechnology](#)

[BSc Agriculture](#)

Required Skillset for BSc

BSc serves as a foundation for candidates who have a keen interest to build a career in the field of [Science](#). Basic skills and traits that candidates should have to pursue a BSc course are:

Skillset for BSc Candidates

Observation skills Problem-solving skills

Analytical skills Logical skills

Scientific skills Research skills

Experimental skills -

BSc: Eligibility Criteria

In order to meet BSc eligibility criteria candidates should clear Class 12th in Science stream with minimum 50% - 60% aggregate marks from a recognised board. It may be noted that the minimum percentage required for BSc admissions may vary depending on the policy of a university/ college in which a candidate is applying.

Read: [What is BSc course all about? Know the Full Form, Eligibility & Scope](#)

Course curriculum for BSc

As already mentioned above, BSc can be pursued in different Science subjects, some of the popular ones being Physics, Chemistry, Mathematics, Computer Science, etc. Apart from this, candidates can also choose to pursue a BSc program course which focuses on all major subjects of Science. Given below is an overview of the subjects taught in BSc Physics, BSc Mathematics, BSc Chemistry and BSc Computer Science:

Physics

B.Sc Physics Course Curriculum

Mathematical Physics	Mechanics
Electricity and Magnetism	Waves and Optics
Chemistry	Technical Writing & Communication in English
Oscillations & Waves	Digital Systems and Applications
Digital Electronics	Microprocessors & Computer Programming
Thermal Physics	Mathematics
Optics	Mathematical Analysis & Statistics
Numerical Analysis	Quantum Mechanics and Applications
Atomic and Molecular Physics	Electronic Devices

Electromagnetic Theory	Statistical Mechanics
Solid State Physics	Nuclear & Particle Physics
Mechanics and Wave Motion	Kinetic Theory and Thermodynamics
Elements of Modern Physics	Analog Systems and Applications

Mathematics

BSc Mathematics Course Curriculum

Calculus	Algebra
Basic Statistics & Probability	Real Analysis
Analytical Solid Geometry	Differential Equations
Matrices	Data Structures and Operating Systems
Sequences & Series of Real Numbers	Mechanics
Abstract Algebra	Linear Programming
Theory of Real Functions	Ring Theory and Linear Algebra
Discrete Mathematics	Complex Analysis
Linear Programming & Its Applications	Numerical Analysis
Vector Analysis	Probability Theory

Chemistry

BSc Chemistry Course Curriculum

Inorganic Chemistry

Atomic Structure	Periodic Properties
Chemical Bonding	s-Block Elements
Chemistry of Noble Gasses	p-Block Elements

BSc Chemistry Course Curriculum

Organic Chemistry

Structure and Bonding	Mechanism of Organic Reactions
Alkanes and Cycloalkanes	Stereochemistry of Organic Compounds
Alkenes, Cycloalkenes, Dienes and Alkynes	Arenes and Aromaticity
Alkyl and Aryl Halides	-

BSc Chemistry Course Curriculum

Physical Chemistry

Mathematical Concepts	Computers
Gaseous States	Liquid State
Solid States	Colloidal States
Chemical Kinetics and Catalysis	-

Computer Science

BSc Computer Science Course Curriculum

Fundamentals of Computer Organization & Embedded System	Introduction to Database Management Systems
Introduction to Programming using Python	Introduction to C
Introduction to Programming Concepts	Introduction to Number System and Codes
Introduction of Windows, Features, Application	Advanced Programming using Python
Control Structures	Functions
Arrays	Linux
Discrete Mathematics	Computer Graphics
C++ Programming	Java Programming
Discrete Structures	Data Structures
Database Management Systems	Software Engineering
Operating Systems	Computer Networks
Design and Analysis of Algorithms	Internet Technologies
Theory of Computation	Artificial Intelligence
Computer Graphics	Data Communication & Networking
Advanced Java	DBMS
Operating Systems	Networking & Security
Principles of Web Design and Web Technologies &	-
Dot Net Technologies	

BSc: Job Profiles & Top Recruiters

Depending on their respective subjects, BSc graduates can find jobs in various sectors such as educational institutes, healthcare industry, pharmaceuticals and biotechnology industry, chemical industry, research firms, testing laboratories, wastewater plants, oil industry, and the list continues. However, it is advisable that BSc students first complete their MSc degree and then look out for a job.

Given below are popular job profiles that BSc graduates can take up after completing the course:

- **Research Scientist:** A research scientist is responsible for undertaking as well as analysing information obtained from laboratory-based experiments and investigations. A research scientist may work for government labs, specialist research organisations and environmental organisations.

- **Scientific Assistant:** A scientific assistant is a professional who provides complete support to the scientist in research. A scientific assistant is also responsible for performing and managing various administrative tasks.
- **Treasury Specialist:** A treasury specialist is responsible for helping organisations increase profitability by assessing their periodic liquidity needs and investing excess cash in capital markets.
- **Market Research Analyst:** A market research analyst researches and gathers data to help a company market its products or services. An analyst helps a company determine its position in the market by researching its competitors and analysing its sales, prices, etc.
- **Quality Control Manager:** A quality control manager ensures that products of a particular company meet set quality and efficiency standards. The manager plans, directs and coordinates quality assurance programmes and also formulates various quality control policies.
- **Statistician:** A statistician gathers different numerical data of a company and then displays it, thereby helping them to analyse quantitative data and spot trends.
- **Teacher:** A Science teacher is typically involved in tasks such as preparing lesson-plans, evaluating student performances and teaching through lectures and technology.
- **Technical Writer:** A technical writer writes articles and prepares instruction manuals and other supporting documents to communicate technical information easily.
- **Lab Chemist:** A lab chemist analyses chemicals and creates new compounds that are useful in different aspects of human life. Research and testing are two crucial job responsibilities of a lab chemist.

Also Read: [Job Options after BSc Degree – Know Salary Packages](#)

Some of the top recruiters for BSc graduates are:

Top Companies that Hire BSc Graduates

Google	Yahoo
IBM	HCL Technologies
Verizon	Amazon
Infosys	Wipro
TCS	Accenture
L&T Infotech	Capgemini
Reliance Industries Limited	Cipla
SRF Limited	Gujarat Fluorochemicals
Gharda Chemicals	Glenmark Pharmaceuticals

Popular B.Sc. Colleges in India

Following are the most popular B.Sc. Colleges in India. Learn more about these B.Sc. colleges (Courses, Reviews, Answers & more) by downloading the Brochure.

[View more](#)

[BHU - Banaras Hindu University](#)

Varanasi

[B.Sc. \(Hons.\) in Agriculture](#)

Shortlist Brochure

[Fergusson College](#)

Fergusson College Road, Pune

[B.Sc. in Biotechnology](#)

[Chandigarh University \(CU\)](#)

Chandigarh

[B.Sc.\(Hons.\) in Agriculture](#)

[The Oxford College of Science](#)

H.S.R Layout, Bangalore

[B.Sc. \(Physics, Mathematics, Computer Science\)](#)

[UoH - University of Hyderabad](#)

Gachibowli, Hyderabad

[View All Popular Colleges](#)

Top Rated Courses

Following are the top-rated B.Sc. courses, based on alumni reviews. Explore these reviews to choose the best course in B.Sc..

View more

Courses

- [**B.Sc.in Applied Mathematics**Offered ByParul University](#)
- [**B.Sc. in Computer Science**Offered ByChandigarh University \(CU\)](#)
- [**B.Sc. in Exercise and Sports Science**Offered ByManipal School of Allied Health Sciences, Manipal](#)
- [**B.Sc. in Computer Science**Offered ByCMS College of Science and Commerce](#)
- [**B.Sc. in Data Science**Offered ByFaculty of Engineering and Technology, Manav Rachna International Institute of Research and Studies](#)
- [**B.Sc. in Nautical Science**Offered ByTolani Maritime Institute- TMI](#)
- [**B.Sc. in Biotechnology**Offered ByLPU - Lovely Professional University](#)

- [**B.Sc. in Computer Science**Offered BySuryadatta College of Management Information Research and Technology - SCMIRT](#)
- [**B.Sc. \(Hons.\) in Applied Psychology**Offered ByThe Neotia University](#)
- [**B.Sc. in Biotechnology**Offered ByChandigarh Group of Colleges, Landran](#)

[View All Courses](#)

Popular B.Sc. Specializations in India

Following are the most popular B.Sc. Specializations . You can explore the top Colleges offering these Specializations by clicking the links below.

[View more](#)

Popular Specializations

- [Mathematics](#)
1014 Colleges
- [Computer Science](#)
903 Colleges
- [Physics](#)
853 Colleges
- [Chemistry](#)
838 Colleges
- [Zoology](#)
397 Colleges
- [Biotechnology](#)
388 Colleges
- [Botany](#)
386 Colleges
- [Agriculture](#)
285 Colleges
- [Microbiology](#)
272 Colleges
- [Biology](#)

241 Colleges