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Bsc chemistry pdf

Sakshi Gupta Content Curator BSc Chemistry is a 3 years undergraduate course in India. The course curriculum deals with various aspects of chemistry including chemical reactions and chemical composition of substances. In order to be eligible for the course, the students must have passed 10+2 from a reputed institution with Chemistry as one of the major subjects. Note: Students who wish to pursue their education in Management field or get a career boost, can check MBA course. The admission to this course is generally offered on the basis of merit. However, some universities like Punjab University, Christ University and a few more conduct their own admission tests. BSc Chemistry: Key Highlights Top Entrance Exams: BHU UET, NPAT, PU CET etc. BSc Chemistry Subjects: Physical Chemistry, Organic Chemistry, Inorganic Chemistry.etc. Average Fees: INR 20,000- 2,00,000 BSc Chemistry Salary: INR 4-7 LPA BSc Chemistry Jobs: Pharma Assistant, Chemists, Clinical Research Associate, Cytologists, Technical Writers and many more. Top Recruiting Areas: SChemical Laboratories, Pharmaceutical Companies, Educational Institutes, Cosmetics and Perfume Industry, Health Care Industry, etc BSc Chemistry Scope: MSc Psychology Alert BHU UET 2020 exam date has been revised. BHU UET Exam is scheduled to be conducted between August 16 – 31, 2020. Tabulated below are some of the top BSc Chemistry Colleges in India College Name City Admission Process Average Total Fee (INR) Average Salary (INR) Hindu college New Delhi Merit-based 18,650 6 LPA Stella Maris College Chennai Merit-based 22,895 5 LPA Deen Dayal Upadhyaya College New Delhi Merit-based 17,525 4.2 LPA Women's Christian College Chennai Merit-based 34,110 6.56 LPA Mount Carmel College Bangalore Merit-based 42,000 7.5 LPA St. Xavier's College Ahmedabad Merit-based 9,985 7 LPA Ethiraj College for Women Chennai Merit-based 11,056 4 LPA Sacred Heart College Kochi Merit-based 6,970 - Kishinchand Chellaram College Mumbai Merit-based 6,925 - Jyoti Nivas College Bangalore Merit-based 30,000 5.95 LPA Alert: SAAT 2020 has been postponed until further notice due to extension in lockdown considering the situation of COVID-19 crisis?. Check: What are the BSc Chemistry Eligibility Criteria? Following are some of the BSc Chemistry eligibility criteria that students are required to follow: He/ She must complete their 10+2 from a recognized board. He/She must be from a Science background in 10+2 with Chemistry as one of the main subjects. It is advisable to score more than 55% in the higher secondary level to stand eligible for the course. What is the BSc Chemistry Admission Process? Mentioned below are some of the common admission processes of BSc Chemistry. Merit-based: Admission to this course is generally offered on the basis of merit. Colleges like Hindu college, Fergusson College, Mount Carmel College and more offer admission to this program on the fulfillment of cut-offs published by them. Entrance-based: Apart from merit based admission, there are few colleges like Christ University, Banaras Hindu University and more that conduct their own entrances for admission. One can also sit for common entrances like NPAT. Admission for Lateral Entry students: The course also has an option for lateral entry. The students can directly take admission in the third year of the course. In order to be eligible for admission, the students will have to complete their 1st and 2nd year of B.Sc. Chemistry from a recognized institute. The students should also have studied a syllabus which is similar to the syllabus of the college/university they are applying for. Annamalai University is one such university offering this kind of admission. The steps of proper registration, uploading documents and payment of fees remains the same for all the types of admission process. Read More Hindu college Admission 2020 Stella Maris College Admission 2020 What are the Top BSc Chemistry Entrance Exams? Here are some of the most common entrance tests for BSc Chemistry in India: How to get admission in good BSc Chemistry colleges ? Check out the points below to know how to secure an admission into good BSc Chemistry colleges: In order to get admitted to a top BSc Chemistry college in India, the students must have a reasonably good score in 10+2. In most colleges, the admission process is merit-based. So, you will have to clear the cut-off prescribed by the college for the admission procedure. If the college conducts an entrance test, you need to clear the entrance test with a good score. Check below to know the subjects from where the questions of BSc Chemistry entrances are set: Physics Chemistry Mathematics English Biology Most entrance tests have a duration of 2-3 hours and the questions given are of objective types Candidates, along with managing time for preparing must also study the previous year's question paper in detail. Work on your personality to be representative enough during the final rounds of admission in front of the faculty. Always make a note of all the important dates which are related to the admission process like date of submission of the application form, date of entrance test, etc Read More BSc Chemistry Syllabus includes a number of core subjects. Along with that, one will have to study a few elective subjects during the tenure of the course. An individual must also know that lab practicals form a major part of the BSc Chemistry syllabus. The core BSc Chemistry subjects name are mentioned below: Inorganic Chemistry Physical Chemistry Organic Chemistry Tabulated below is the common BSc Chemistry subjects followed during the course duration by most of the top universities. Atomic Structure General Principles of Metallurgy Periodicity of Elements Bioinorganic Chemistry Catalysis by Organometallic Compounds Stereochemistry Chemistry of Aliphatic and Aromatic Hydrocarbons Chemistry of Halogenated Hydrocarbons Carboxylic Acids and their Derivatives Nucleic Acids, Amino Acids, Peptides, and Proteins, Carbohydrates, Dyes, and Polymers Chemical Thermodynamic electrical and Magnetic Properties of Atoms and Molecules Solutions and Colligative Properties Ionic and Phase Equilibria Some of the important elective BSc Chemistry subjects include: Application of Computer in Chemistry Analytical methods in Chemistry Molecular Modelling and Drug Design Novel Inorganic Solids Inorganic Materials of Industrial Importance Industrial Chemicals and Environment Instrumental Methods of Chemical Analysis Polymer Chemistry Research Methodology for Chemistry Check detailed:BSc Chemistry Syllabus Following are some of the BSc Chemistry books to refer. Book Author Chemistry for Degree Students R.L Madan Physical Chemistry Jai Prakash Nath Unified Chemistry Shiva Lal Agarwal and Company New Approach in Chemistry Dr. D.B Patil Inorganic Chemistry Dr. S.P Jauhar College Comparison The table drawn below holds the comparison made between the top BSc Chemistry colleges in India on the basis of various parameters that any keen student can check. Parameters Hindu College Stella Maris College Mount Carmel College Overview Hindu College was founded in the year 1899 by Late Shri Krishan Das Ji Gurwale. In the beginning it was affiliated under Punjab University but at present it is affiliated under Delhi University. Established on 15th August 1947, it is an autonomous college affiliated to University of Madras. Situated in Vasanth Nagar of Bangalore, the college is affiliated to Bangalore University and re-accredited with an A+ Grade(4th Cycle) by NAAC. Location New Delhi Chennai Bangalore Eligibility Qualifying certificate of 10+12 level from a recognized board Must have qualified the 10+2 or equivalent exam with at least 50% . Students must have passed or appeared in the 10+2 examination of any recognized board. Admission Process Merit-based On the basis of merit. Merit-based Average Annual Fees INR 18,650 INR 12,895 INR 42,000 Top companies visited Deutsche Bank, Reliance Group, TCS, Genpact, Pernod-Ricard etc Accenture, Genpact, American Express, hcl tech, kotak Mahindra bank, etc. Deloitte, MSU, Citi Bank, KPMG, Samsung, PWC, etc Average Annual Salary INR 6 LPA INR 5 LPA INR 7.5 LPA Source: University websites What is the Difference: BSc Chemistry vs BSc Chemistry Honours We have drawn below a comparison between BSc Chemistry and BSc Chemistry Honours., which helps the aspirants in understanding the differences between the course. Parameters BSc Chemistry BSc Chemistry Honours Objective The course provides knowledge of Science in the chemical field of study by offering subjects like atomic chemistry, organic chemistry, application of computers in chemistry, etc. The objective of this course is to offer all the knowledge in the fields of chemical sciences but by using a more advanced approach than in BSc Chemistry. Average Annual Fees INR 20,000- INR 2,00,000 INR 2,00,000- 5,00,000 Duration 3 years 3 years Eligibility 10+2 from a recognized educational board with Chemistry as the main subject 10+2 in Science stream with Chemistry as one of the main subjects from a recognized board. Admission Process Merit-Based and Entrance-Based Merit-Based and Entrance-Based Top Colleges Hindu college, Fergusson College, Stella Maris College, Mount Carmel College, etc Dyal Singh College, Amity University, Lovely Professional University, Guru Nanak University, etc Job Roles Chemist, Pharma Assistant, Lab Assistant, Clinical Research Associate, etc Clinical Research Specialist, Cytologist, Anesthesiologist, Teacher. Average Annual Salary INR 4-7 LPA INR 4-7.5 LPA Source: University Websites and Payscale BSc Chemistry Jobs and Scope There are plenty of BSc Chemistry jobs available for potential candidates. The students become eligible enough to get job opportunities in various private and public sectors related to the chemical industries. Bodal Chemical Ltd., Aarti Industries, Camlin Fine Sciences, Tata Chemicals, Vinati Organics, Fineotex Chemical, Fairchem Speciality, etc are some of the top recruiters of BSc Chemistry. Here, we have listed some of the most common BSc Chemistry jobs available for the students, along with the job description and salary: Job Profile Job Description Average Annual Salary (INR) Chemist A chemist's main task is to analyse the composition of various chemicals and understand how they react with one another. 6 LPA Pharma Assistant A pharma assistant handles administrative duties in various pharmaceutical industries. 3 LPA Clinical Research Associate A clinical research associate's mask responsibilities include the collection and storage of statistical data obtained during a clinical trial. 5 LPA Lab Assistant A lab assistant provides assistance when various experiments are conducted in laboratories. 2.5 LPA Toxicologist A toxicologist is mainly concerned about the negative effects of chemicals on living organisms. 4 LPA Source: Payscale There are hardly any limits to BSc Chemistry scope as there are plenty available. After successfully completing the course one may pursue an M.Sc in various fields. Apart from looking for jobs in various private and government sectors, there are various opportunities for research in this field as well. There are a number of colleges which offer M.Sc in Chemistry and related fields in India. Some of these courses include: Pursuing any of the above master courses in chemistry will not only enhance the knowledge of the subject, but will also take an individual a step ahead to have a great career prospect both in terms of work and research studies. One may also start their own business or open up a chemical laboratory for experimentations. Explore more about BSc Chemistry Jobs Ques. What should I do after completing my BSc in Chemistry? Ans.You can apply for M.Sc in some of the best colleges in the country. You can even look for jobs in various public and private sectors. Ques. What other courses can I pursue along with BSc in Chemistry? Ans. You can go for short term courses to make yourself familiar with the latest developments which are taking place in the chemical industry. Various online courses are available in subjects like pharmaceuticals, organometallics, etc. Select a course as per your choice. Ques. What are the best after BSc Chemistry jobs ? Ans. After completion of the course, you may get entry-level jobs in various sectors. Few popular job profiles include lab assistant, chemist, etc. Ques. Can I study MS after BSc in Chemistry? Ans. Yes, there are a number of colleges across the world where you can study MS in chemistry-related fields. However, your grades need to be really good. Ques. What is the average salary after completion of BSc in Chemistry? Ans.The average salary is anything between INR 4- 7 LPA Ques. What is the difference between BSc Chemistry and BSc Hons Chemistry? Ans.Both the courses have a duration of 3 years but the difference lies in their course curriculum. Ques. Which is the best university in India for BSc Chemistry? Ans. If you wish to study BSc Chemistry in India, then Delhi University is the university to look for. It has numerous colleges under it, which offers BSc. Chemistry course. Ques. What is the average tuition fee for M.Pharm? Ans. The average tuition fee is between INR 20,000 to INR 2,00,000 Ques. Is there any delay in the admissions of BSc Chemistry due to the outbreak of Covid 19 ? Ans. Yes colleges like Banaras Hindu University and few more have extended their admission for the course till further update, due to the spread of Covid 19. 960 (Minimum Fee)PUBLIC COLLEGES3.39 L (Maximum Fee)27.16 K (Average Fee)798 (Minimum Fee)Private COLLEGES8.71 L (Maximum Fee)52.95 K (Average Fee)Bachelor of Science [B.Sc] (Chemistry) Fee Structure By state1.20 KPUBLIC COLLEGES2.03 L28.60 K798Private COLLEGES1.58 L49.99 K3.46 KPUBLIC COLLEGES60 K19.25 K2.98 KPrivate COLLEGES2.50 L46.50 K2.38 KPUBLIC COLLEGES55.19 K16.30 K4.46 KPrivate COLLEGES1.31 L27.17 K3.33 KPUBLIC COLLEGES2.24 L17.27 K3.09 KPrivate COLLEGES2.30 L26.29 K3 KPUBLIC COLLEGES78.60 K13.78 K2.48 KPrivate COLLEGES8.71 L40.75 K7.74 KPUBLIC COLLEGES3.39 L59.83 K3.27 KPrivate COLLEGES3.48 L92.14 K4.60 KPUBLIC COLLEGES36 K16.05 K6.11 KPrivate COLLEGES1.80 L43.68 K3.71 KPUBLIC COLLEGES1.71 L78.25 K1.80 KPrivate COLLEGES1.91 L85.11 K2.61 KPUBLIC COLLEGES2.25 L35.90 K1.50 KPrivate COLLEGES1.20 L54.23 K3 KPUBLIC COLLEGES1.13 L45.51 K5.56 KPrivate COLLEGES3.99 L94.85 K9.27 KPUBLIC COLLEGES54.17 K22.41 K2.40 KPrivate COLLEGES1.13 L25.57 K7.03 KPUBLIC COLLEGES36 K16.96 K9.90 KPrivate COLLEGES1.81 L62.86 K5.19 KPUBLIC COLLEGES9 K6.82 K2.11 KPrivate COLLEGES1.72 L80.64 K5.78 KPUBLIC COLLEGES61.38 K36.23 K4.40 KPrivate COLLEGES2.50 L84.45 K4.26 KPUBLIC COLLEGES2.10 L53.12 K6.33 KPrivate COLLEGES1.50 L40.13 K1.61 KPUBLIC COLLEGES37 K8.20 K4.54 KPrivate COLLEGES90 K36.44 K2.35 KPUBLIC COLLEGES75 K22.20 K25.87 KPrivate COLLEGES77.20 K44.65 K2.46 KPUBLIC COLLEGES63 K12.14 K2.43 KPrivate COLLEGES1.20 L44.63 K4.13 KPUBLIC COLLEGES1.20 L28.42 K6.13 KPrivate COLLEGES45.55 K13.91 K16.21 KPUBLIC COLLEGES29.02 K24.31 K11.89 KPrivate COLLEGES2.04 L86.55 K8.21 KPUBLIC COLLEGES32.76 K13.67 K14.07 KPrivate COLLEGES14.07 K14.07 K960PUBLIC COLLEGES12 K5.02 K2.90 KPrivate COLLEGES1.22 L62.55 K7.39 KPUBLIC COLLEGES7.39 K7.39 K11.56 KPrivate COLLEGES51 K25.15 K65 KPUBLIC COLLEGES2.21 L1.45 L1.32 LPrivate COLLEGES1.32 L1.32 L90 KPUBLIC COLLEGES90 K90 K27.58 KPrivate COLLEGES67 K49.42 K6.25 KPUBLIC COLLEGES6.25 K6.25 K14.42 KPrivate COLLEGES1.29 L71.71 K11.94 KPUBLIC COLLEGES18.48 K15.21 K22.55 KPrivate COLLEGES56.05 K34.82 KStudy chemistry Courses from AbroadTop chemistry Colleges Abroad

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