

## **Frequently Asked Questions**

### **1. What is Chemistry as a discipline all about?**

Chemistry is a branch of science that deals with studying the structure, properties, and composition of matter. The five main disciplines of Chemistry are: Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Analytical Chemistry and Biochemistry. It is because of chemistry that many Eco-friendly chemicals are discovered. These chemicals help us to save the environment. For instance, the replacement of chlorofluorocarbons from refrigerators prevents the depletion of the ozone layer. Chemistry has played a massive role in the development of several sectors: in Industries (cement, glass, dye, textiles, paper, etc.); Catalysts (in the production of nitric acid, ammonia, hydrogenated oils, and sulphuric acid, etc.); Synthetic fibres (nylon, rayon and terylene are comfortable, soft and easy to wash, dry and don't need ironing); Domestic use (oils, detergents, plastics, paper, sugar, glass, cosmetics, cooking gas, perfumes, paints, refrigerants, etc.); Transportation (from airplanes and trains to cars and motorcycles use coal, petrol or diesel); Pharmaceuticals (antibiotics, analgesics, antiseptics, life-saving drugs: Taxol and cisplatin have been found very effective in cancer therapy).

### **2. Can a student apply for B.Sc.(H) Chemistry without studying Mathematics in higher secondary?**

No, a student cannot apply for B.Sc.(H) Chemistry without studying Mathematics in higher secondary as it is a mandatory subject in the calculation of PCM (Physics, Chemistry and Mathematics).

### **3. How many papers a student studies in B.Sc.(H) Chemistry?**

In four years of UGCF, the students will study 20 core papers of Chemistry, known as Discipline Specific Core (DSC). In addition to these they will also study Discipline Specific Electives (DSE), Generic Electives (GE), Skill Enhancement Course (SEC), Value Addition Course (VAC) and Ability enhancement Courses (AEC).

### **4. What is a Generic Elective (GE) paper?**

A generic elective is a paper which must be chosen by the student among the papers offered by different departments of the college apart from the parent department in which the student is enrolled to pursue the undergraduate major degree.

### **5. Which Generic Elective paper should I choose?**

In order to be eligible to pursue M.Sc. Chemistry from University of Delhi, two Mathematics papers are mandatory.

**6. Is it compulsory for every student to study generic elective papers?**

Yes, it is compulsory for all the students to study four generic papers in the I<sup>st</sup>, II<sup>nd</sup>, V<sup>th</sup> and VI<sup>th</sup> semesters.

**7. What minor degree can be done along with B.Sc.(H) Chemistry major course?**

For minor degree courses, a student has to complete 28 credits (i.e. 7 GE papers) in that subject along with major papers in Chemistry. The minor areas could be Physics, Mathematics, Biochemistry, Computer Science, Management etc.

**8. What are Ability Enhancement course (AEC), Skill Enhancement Course (SEC) & Value Addition Course (VAC)?**

**AEC** courses are the courses based upon the content that leads to knowledge enhancement through various areas of study. They are Language and Literature and Environmental Science and Sustainable Development which will be mandatory for all disciplines. **SEC** courses are skill-based courses in all disciplines and are aimed at providing hands on-training, competencies, proficiency, and skills to students. **SEC** courses may be chosen from a pool of courses designed to provide skill-based instruction. **VAC** courses are value-based courses which are meant to inculcate ethics, culture, Indian Knowledge systems, constitutional values, soft skills, sports education and such similar values to students which will help in all round development of students.

**9. What are the SEC papers offered by the Department of Chemistry?**

The Department of Chemistry offers: Chemistry Lab Operations and Safety Measures, Forensic Chemistry, Chemistry of Cosmetics and Hygiene Products, Basic Analytical Techniques, Green Methods in Chemistry, and more.

**10. What are the other activities offered by the Department and College?**

Many webinars, seminars, training courses and workshops are organized at frequent intervals to apprise the students of various advancements in the field. Students can also participate in extra-curricular activities by joining different societies such as Dance society, Sports Society, Music society, Literary society, NSS and others.

**11. Does the college offer research opportunities?**

Yes, summer internships are conducted during summer vacations. Many students have been actively involved in various research projects.