

Comprehensive Report on the Two-Day Orientation Programme

Department			of		Chemistry
Target	Audience:	I	B.Sc.	Chemistry	Students
Academic			Year:		2026–2027
Dates of Event: 6th and 7th July 2026					

The transition from secondary school to higher education represents a major turning point in a student's life. To help first-year undergraduate students navigate this change, the Department of Chemistry organized a comprehensive two-day orientation programme on July 6th and 7th, 2026. This mandatory event welcomed the incoming batch of I B.Sc. Chemistry students for the 2026–2027 academic year.

The primary goal of the programme was to introduce students to the academic expectations, operational frameworks, and cultural values of both the department and the college. Over the two days, the department balanced institutional rules with inspiring and practical sessions. The curriculum featured interactive lectures, an inspiring motivational address, a foundational workshop on chemistry entrepreneurship, an extensive tour of the facility libraries, and an interactive safety run-through inside the department laboratories.

2. Institutional Framework: Rules and Regulations of the Department

The first session of the orientation programme focused on the official rules and regulations of the Department of Chemistry.

Daily Schedule and Punctuality

The department follows a strict daily schedule that balances academic requirements with optimal learning windows.

- **College Timings:** Classes run from **8:25 AM to 1:15 PM**. Students must be in their seats and ready to learn before the morning bell rings.
- **Morning Interval:** A designated recess takes place daily from **11:10 AM to 11:25 AM**. This 15-minute break allows students to recharge, network, and take care of personal matters without missing valuable class time.

Strict Attendance Policy

The department emphasizes that consistent attendance is vital for mastering chemistry. To build a culture of punctuality, faculty explained the strict morning attendance policy:

- **The First Hour Rule:** If a student is absent during the very first hour of the day, they will be **marked absent for the entire day**.
- This rule prevents disrupted classes and teaches students the importance of showing up on time, a habit that is essential for their future careers.



Examination Requirements and Assessment Structures

The department uses a continuous evaluation system to monitor student progress throughout the academic year. Students were informed that performance and attendance in internal evaluations are directly tied to their final university marks. The assessment cycle consists of two primary parts:

1. **Two Internal Assessments:** These periodic mid-term tests evaluate core subject comprehension, helping students track their progress before final exams.
2. **One Mandatory Model Examination:** Held at the end of the semester, this comprehensive exam mimics the final university test format.

Dr. Princess Mary Sugantha made it clear that **attendance is strictly compulsory** for both internal assessments and the model exam. Missing these exams without an official, pre-approved reason will hurt a student's grade and academic standing.

3. Inspiring the Future: The Motivational Address

A highlight of the two-day orientation was an inspiring motivational address tailored for the new chemistry batch. The tutors Mrs. M.Premalatha and Dr.K.Jayanthi challenged the standard view of chemistry as just memorizing formulas and elements, describing it instead as a dynamic field that drives global innovation.

Setting Clear and Actionable Goals

The address centered on the value of purposeful goal setting. First-year students were urged not to drift through their undergraduate years, but to define their personal and professional goals from day one. Whether aiming for industrial jobs, research roles, or civil services, setting clear goals early gives students direction and helps them choose the right electives, projects, and internships.

Adopting a Holistic Educational Approach

Dr. V. Vidya emphasized that true education requires a holistic approach to development. Students should look beyond their textbooks and look at the bigger picture:

- **Aptitude Exam Preparation:** Excellence in chemistry coursework alone is no longer enough in today's competitive job market. Students were encouraged to actively prepare for competitive exams and general aptitude tests alongside their core subjects.
- Developing strong logical reasoning, quantitative abilities, and verbal skills early ensures students are ready for postgraduate entrance exams and corporate hiring processes.



Respect for Mentors and Institutional Values

Finally, the address focused on the traditional core value of respecting teachers. Faculty members are not just lecturers; they are mentors, researchers, and guides who help shape student careers. Showing respect, maintaining open communication, and listening to faculty guidance creates a collaborative learning environment. The address concluded by challenging the freshers to use every resource available in the department to transform their potential into remarkable professional achievements.





4. Driving Innovation: Entrepreneurship in Chemistry

On the second day of the orientation, the programme shifted from academic discipline to career innovation with an introductory talk on **Entrepreneurship in Chemistry**. This session was designed to highlight the real-world value of a B.Sc. Chemistry degree and spark an entrepreneurial mindset early in the students' academic journeys.

The core of the presentation focused on demystifying how laboratory science translates into commercial consumer products. Chemistry is uniquely positioned to drive product innovation because almost every physical product relies on chemical formulations:

- **Cosmetics and Personal Care:** Lotions, shampoos, and skin creams are built on emulsions, surfactant science, and precise pH balancing developed in chemistry labs.
- **Household Cleaning Agents:** Detergents, disinfectants, and specialized polishes are created by optimizing chemical compositions for safety and efficacy.
- **Advanced Materials and Sustainability:** Developing biodegradable plastics, eco-friendly pigments, and upcycled materials relies directly on chemical research.



By showing how simple laboratory reactions can be scaled into mass-market products, the session inspired students to view their practical lab work as potential business opportunities.

Sustaining Success in Changing Markets

Dr. K .UshaNandhini concluded by outlining how students must adapt, shape, and mould their mindset to survive and thrive in a rapidly changing global market. Industrial and science-driven fields are highly competitive and constantly evolving.

To build a lasting career, students must develop personal adaptability. They need to continuously upgrade their technical skills, learn market trends, and be willing to pivot when technologies change. This session successfully planted the seeds of an entrepreneurial mindset, showing the incoming batch that they can be job creators rather than just job seekers.

5. Practical Immersive: Laboratory Visit and Safety Run-Through

Following the entrepreneurial talk, students took part in a practical by Dr.P.Jayanthi and Dr.G.Sukanyaa, immersive tour of the Department of Chemistry's laboratory facilities. Because safety is essential when working with chemicals, this visit focused heavily on safety protocols, hazard warnings, and proper waste management systems.





Personal Protective Equipment (PPE) Compliance

Students were first trained on the proper use of Personal Protective Equipment (PPE). The department enforces strict compliance with these rules, and during the tour, students observed demonstrations of the essential gear:

- **Lab Coats:** Must be long-sleeved and fully buttoned to protect skin and clothing from chemical splashes.
- **Safety Goggles:** Impact-resistant goggles must be worn to safeguard eyes from unexpected splatters, glass shattering, or corrosive fumes.
- **Nitrile Gloves:** Must be worn whenever handling concentrated acids, bases, or toxic organic reagents to prevent chemical burns and skin absorption.

6. Academic Resources: Tour of the Department Library

The final part of the two-day orientation programme was a guided tour of the Chemistry Department Library. While laboratories provide the space for practical experimentation, the library serves as the academic core for theoretical study, literature research, and exam preparation.

Available Academic Resources

During the tour, students explored an extensive collection of academic materials tailored to the undergraduate chemistry curriculum. The library houses thousands of resources, including:

- **Core Textbooks:** Multiple copies of essential textbooks covering organic, inorganic, physical, and analytical chemistry to support daily coursework.
- **Advanced Reference Books:** Comprehensive encyclopedias, data handbooks, and specialized chemistry volumes for deep-dive learning and research projects.



Library Rules, Regulations, and Conduct

To maintain a quiet, productive study environment, librarians explained the library's rules and operational guidelines:

- **Silence and Decorum:** The library is a dedicated quiet zone; group discussions must be moved to common areas to avoid disturbing others.
- **Borrowing Policies:** Students were taught how to use their institutional library cards, learn book borrowing limits, and understand due-date tracking systems to avoid late penalties.

Introducing freshers to these resources early ensures they can gather data, write reports, and study effectively throughout their three-year degree.

7. Conclusion and Future Outlook

The orientation programme for the I B.Sc. Chemistry batch of 2026–2027 successfully laid a strong foundation for the incoming students. Over the two days, the programme balanced structural guidelines with inspiring career insights, ensuring the freshers felt welcomed and prepared for the journey ahead.

By clearly explaining the department's rules, daily schedules, attendance policies, and exam requirements, the faculty set clear standards for academic discipline. The motivational address gave students a broader perspective on their education, urging them to set clear goals, manage their time wisely, and prepare for competitive aptitude exams early on.

The introduction to chemistry entrepreneurship expanded the students' career horizons by showing them how laboratory discoveries are transformed into everyday consumer products. Finally, the practical lab safety training and library tour gave students the hands-on knowledge needed to use the department's resources safely and effectively.

In conclusion, the 2026 orientation programme succeeded in welcoming the new batch while giving them a clear roadmap for success. By combining academic discipline, lab safety, and an innovative mindset, the Department of Chemistry has prepared its new students to navigate their undergraduate years confidently and build successful, rewarding professional careers.