

**DEPARTMENT OF CHEMISTRY**  
**Goalpara College**  
**Course outcomes: B.Sc. in Chemistry (NEP)**

The expected outcomes of the courses provided by the Department of Chemistry, Goalpara College, are listed below:

1. The course will definitely improve the skill of the students. The students will learn different techniques and standard operating procedures.
2. It will enhance the quality of the learning and teaching processes to inspire original thinking through concrete exposure to experimental work and participation in different innovative courses in other institutes. Consequently, it will encourage networking and bonding with neighbouring institutions.
3. Students will be familiarized with modern techniques, processes and terminologies of decent equipments and software in chemistry.
4. The course will certainly strengthen the academic and physical infrastructure with advanced learning techniques.
5. The course will create an awareness of the impact of chemistry on the environment, society, and development outside the scientific community with specialized training programmes which can illustrate versatile applications of Chemistry with significant implications on the students and the faculties,.
6. The course will definitely increase the potential of core instrumentation resources by procuring new equipment and obviously will upgrade the existing facilities.
7. The course will help to generate the green route for chemical reaction for sustainable development which will offer a direct application of Chemistry towards society, and environment.
8. The course will help to learn how to demonstrate, solve and understand the major concepts in all disciplines of chemistry.
9. The course will assist to inculcate the scientific temperament in the students and outside the scientific community.
10. On completion of the course, students should be able to solve the problem and also think methodically, independently and can draw a logical conclusion.

**Course Outcomes****B.Sc. 1<sup>st</sup> Semester (Honours)****Course: Chemistry-I****Course Code: CHE0100104**

SL No.	Course Outcome	Bloom's level
1	On successful completion, students would have clear understanding of the concepts related to atomic and molecular structure.	Remember Understand
2	Students would understand the concept of chemical bonding.	Remember Understand
3	Students would have clear understanding of periodicity.	Remember Understand
4	Students would have clear understanding of states of matter.	Remember Understand
5	Students will be able to work in a chemical laboratory following standard safety protocols.	Apply Analyse

**Skill Enhancement Course****Course: Basic Analytical Chemistry****Course Code: SEC0101003**

SL No.	Course Outcome	Bloom's level
1	Students shall be able to explain the basic principles of chemical analysis.	Apply
2	They will be able to design/implement micro scale and semimicro experiments, record, interpret and analyze soil, water, food products cosmetics etc. via different techniques such as Paper chromatography, TLC etc.	Apply

**Course Outcomes****B.Sc. 2<sup>nd</sup> Semester (Honours)****Course: Chemistry-II****Course Code: CHE0200104**

SL No.	Course Outcome	Bloom's level
1	On successful completion, students would have clear understanding of the concepts related to chemical bonding.	Remember Understand
2	Students shall understand the concept of coordination chemistry.	Remember Understand
3	Students shall have clear understanding of acids and bases.	Remember Understand
4	Students shall have clear understanding of states of the reactive intermediate.	Remember Understand

*PROGRAMME OUTCOMES\_GOALPARA COLLEGE\_CHEMISTRY*

5	Students shall also understand the chemistry from a thermodynamic point of view.	Remember Understand
6	Students will acquire preliminary training on quantitative analysis, synthesis of coordination compounds, qualitative analysis of organic compounds and measurement of a few basic thermodynamic parameters.	Apply Analyse

Signature of HoD

Dept. of Chemistry