



COURSE SYLABUS

GENERAL CHEMISTRY

Credits: 02 (Lectures 1.5 – Practices 0.5 – Self-study 06)

Code: MT01001



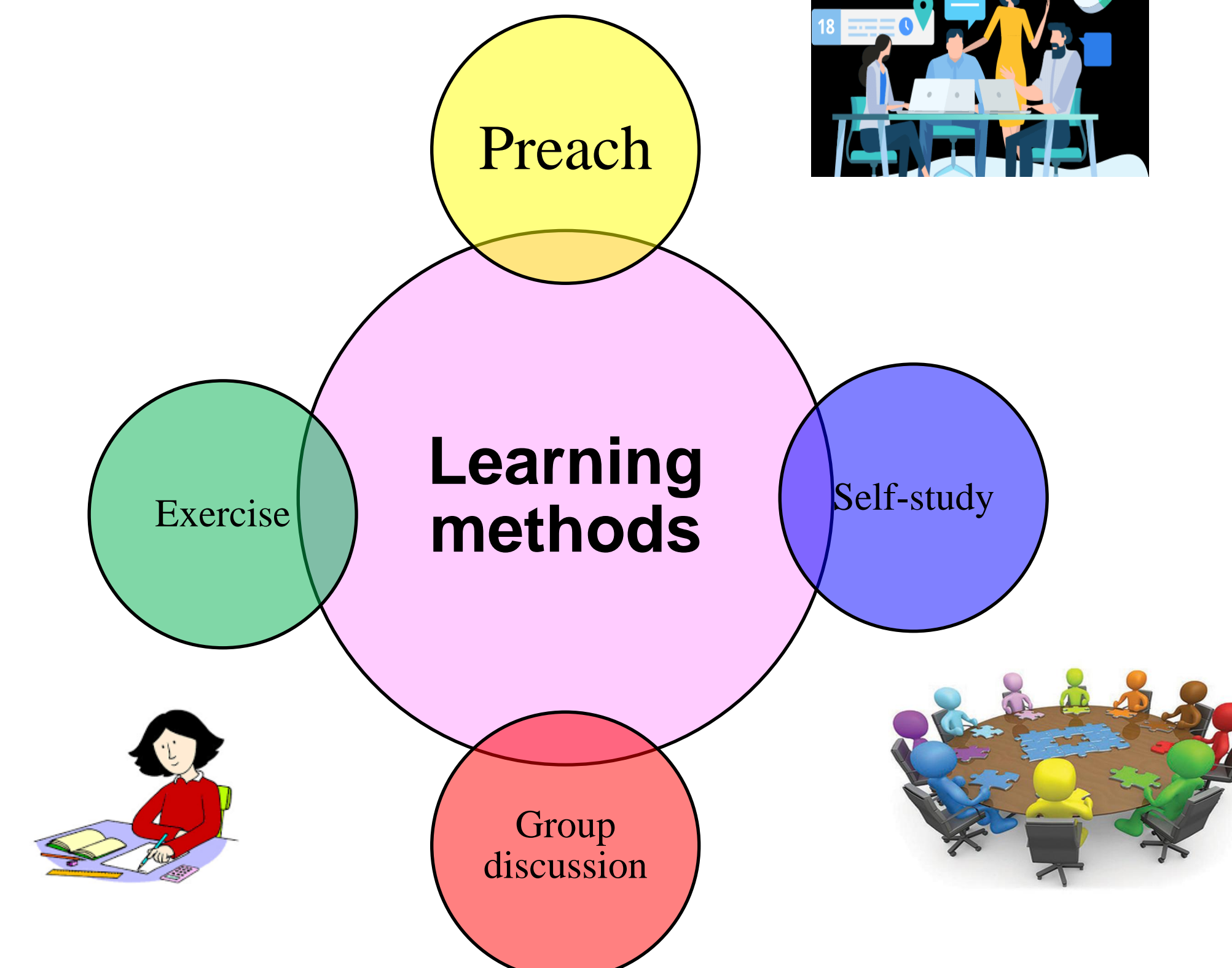
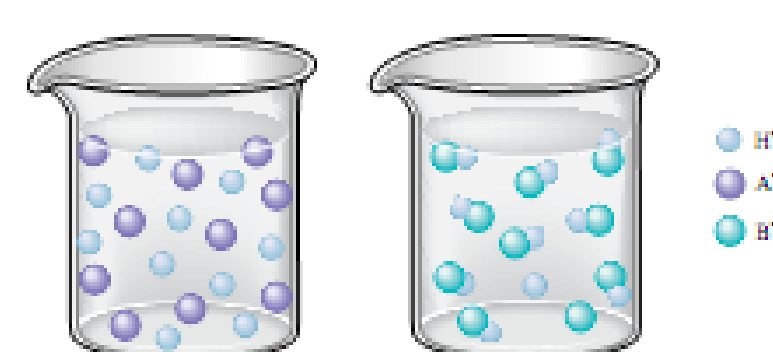
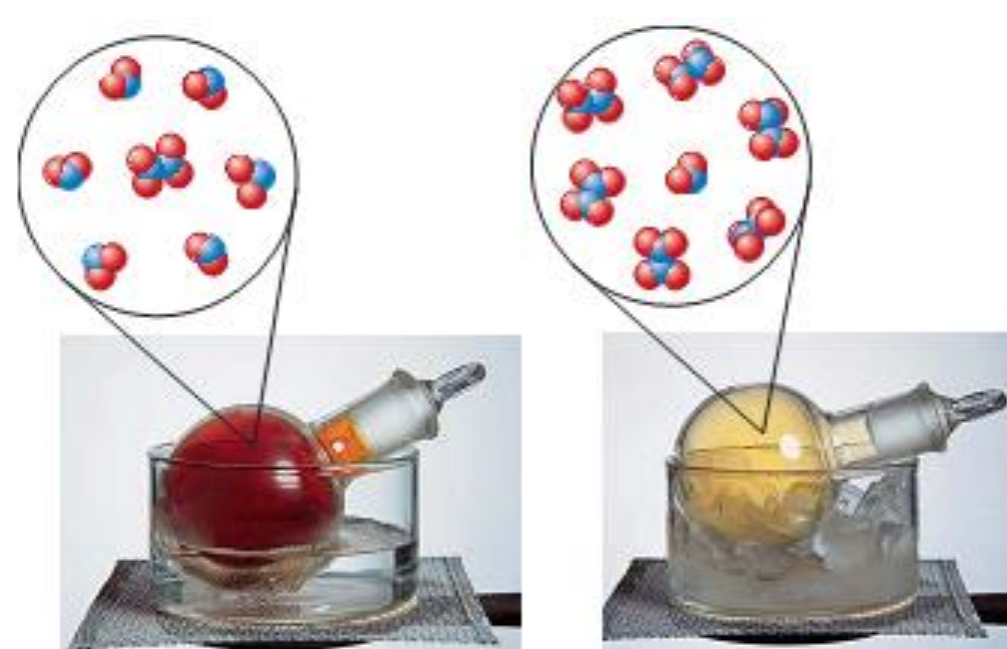
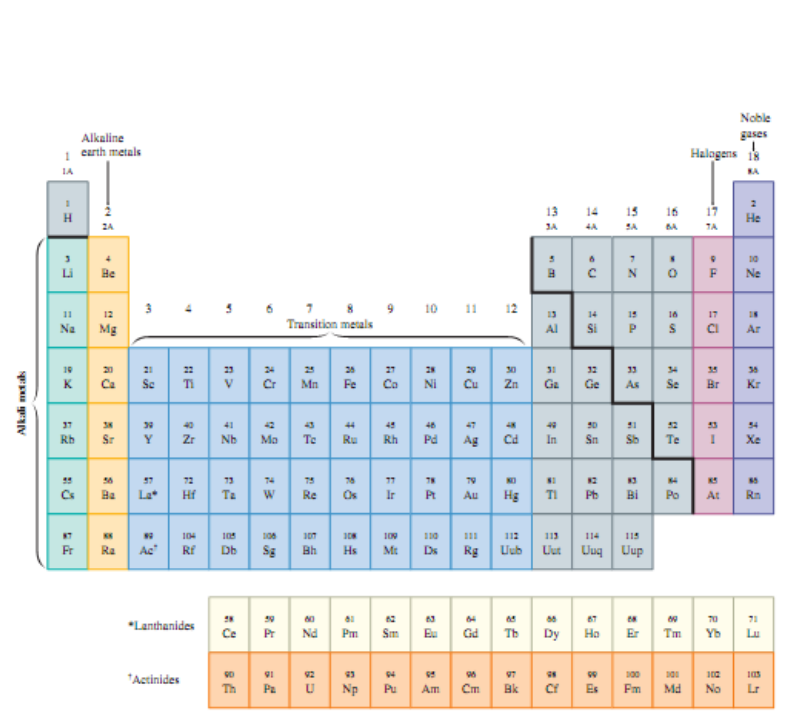
Expected Learning Outcomes



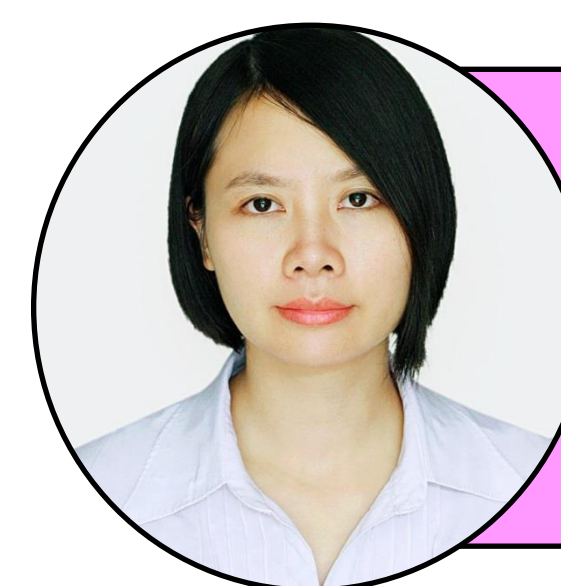
Indicator	Upon completion of the course, Student able to	Expected learning outcomes of program
Knowledge		
CELO1	Illustrates basic concepts and laws in chemistry	ELO1: Apply the knowledge of natural sciences, politics, society, humanities, law, economics and the understanding of contemporary issues into environmental sciences
CELO2	Identify basic concepts and laws needed to solve substance-building exercises, and calculate the amount of substances and energy in chemistry	ELO2: Analyze environmental qualities including design and implement the environmental tests, data collection and interpretation.
CELO3	Identify the relationship between chemical phenomena on agriculture and the environment.	ELO3: Evaluate the impact of resource exploitation and emissions on environmental quality
Skills		
CELO4	Perform basic experiments in general chemistry.	ELO 6: Apply systematic thinking, critical thinking and creative thinking in solving environmental problems and related fields.
Attitude		
CELO5	Be active in learning	ELO11: Determine a clear professional orientation, career passion and a sense of lifelong learning

Brief descriptions

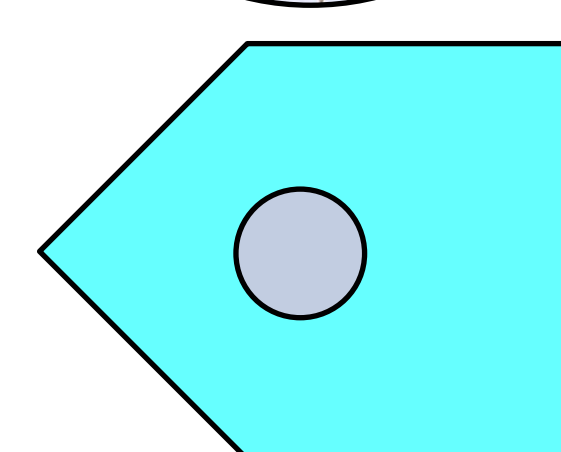
- Some basic concepts and laws
- Atom and substance structure
- Thermodynamics
- Reaction rate and chemical equilibrium
- Solution
- Electrochemical
- Coloidal chemistry
- 3 laboratory



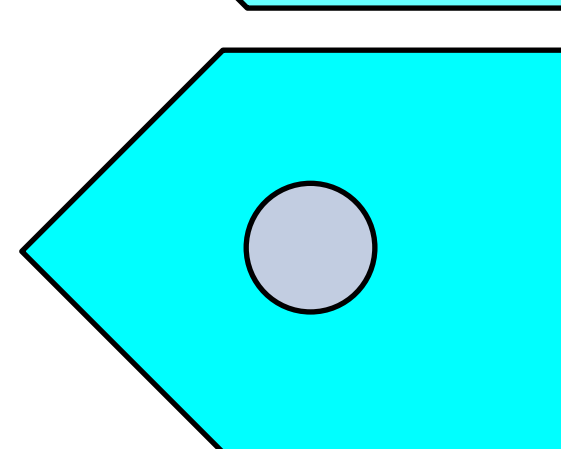
Key academic staffs



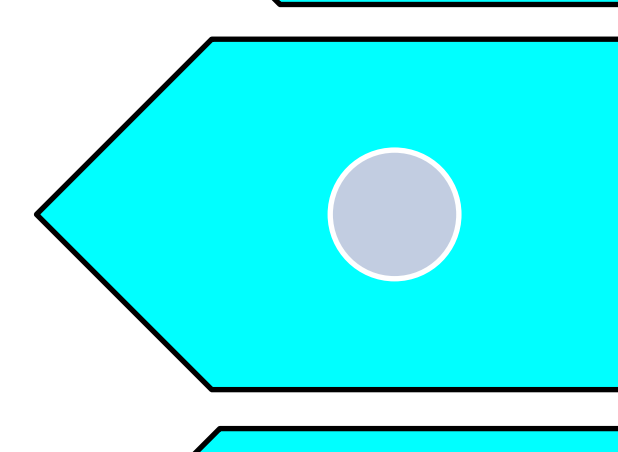
Le Thi Thu Huong
Email: lethithuong@vnua.edu.vn



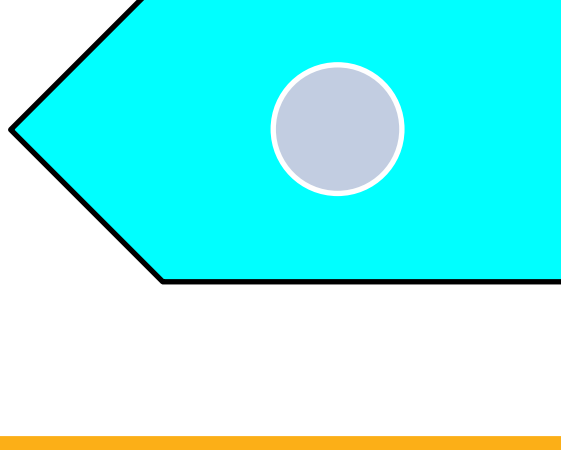
Ngo Thi Thuong
Email: ngothuong@vnua.edu.vn



Nguyen Ngoc Kien
Email: nnkien@vnua.edu.vn



Tran Thanh Hai
Email: tranthanhhai@vnua.edu.vn



Han Thi Phuong Nga
Email: htpnga@vnua.edu.vn

Student tasks:

- All students must attend a minimum of 75% of theory hours and 100% of discussion, exercises and practice hours in the unit.
- Preparing for the lesson: Read the syllabus of the chapter before going to class.
- Exercises: Complete the exercises corresponding to the learned part
- Presentations and Discussions: Participate fully and actively in discussions.
- All students must take the midterm exam
- All students must take the final exam.

Assessment methods

1. Grading scale: 10
2. Evaluation:
Attendance and discussion: 10 %
Exercise: 10%
Laboratory: final exam condition
Midterm test: 30%
Final test: 50%