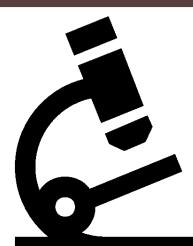


#### COURSE SYLABUS ENVIRONMENTAL CHEMISTRY

Credits: 02 (Lectures 1.5 – Practices 0.5 – Self-study 06)
Code: MT 02003





### **Expected learning outcomes**

Indicator	Upon the completion of the course, student able to	Expected learning outcomes of program
Knowledge		
CELO1	Analyze the chemical processes in encironmenr	ELO1: Apply the knowledge of natural sciences, politics, society, humanities, law, economics and understand contemporary issues in the field of environmental sciences ELO2: Analyze environmental qualities including design and implement the environmental tests, data collection and interpretation.
CELO2	Explain the changes of chemical substances in some specific waste sources, effected by Physical and Biological factor	ELO1: Apply the knowledge of natural sciences, politics, society, humanities, law, economics and understand contemporary issues in the field of environmental sciences ELO2: Analyze environmental qualities including design and implement the environmental tests, data collection and interpretation.
CELO3	Analysis of some basic chemical indicators in laboratory	ELO2: Analyze environmental qualities including design and implement the environmental tests, data collection and interpretation. ELO3: Evaluate the impact of resource exploitation and emissions on environmental quality.
CELO4	Assessment of environmental pollution accordance with the requirements of national and international standards and regulations.	ELO2: Analyze environmental qualities including design and implement the environmental tests, data collection and interpretation. ELO3: Evaluate the impact of resource exploitation and emissions on environmental quality.
Skills		
CELO5	Proficiency in teamwork skills	ELO 6: Apply systematic thinking, critical thinking and creative thinking in solving environmental problems and related fields.  ELO7: Work in group and Lead the multi-functional team
CELO6	Proficient in analytical techniques and assessment to find the cause of problems that uses chemical knowledge in practice.	ELO 6: Apply systematic thinking, critical thinking and creative thinking in solving environmental problems and related fields
Attitute		
CELO7	Active in learning and research	ELO11: Determine a clear professional orientation, career passion and a sense of lifelong learning.



### **Brief descriptions**

Chapter 1. Atmospheric chemistry

Chapter 2. Aquatic chemistry

Chapter 3. Geochemistry

Chapter 4. Circulation of some elements in nature

Chapter 5. Toxicology

03 Pratice in Lab







## Learning methods

- Self-study: reading documents, doing exercises, studying materials
- Join in the discussion, exchange idea in class
- Prepare for the practice: Calculate the chemicals, equipment needed



#### Assessment methods

Grading scale: 10

• Evaluation: 50% Process, 50% final exam

Attendance	Practice	Mid-term 30%	Final examination : 50%
10%	10%		



### Student tasks

- Attendance: Students must attend at least 75% of the class and 100% practice.
- Prepare the lesson according to the teacher intructions
- Attend all mid-term and final exams



# Key academic staffs

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