COURSE SYLLABUS

Climate Change

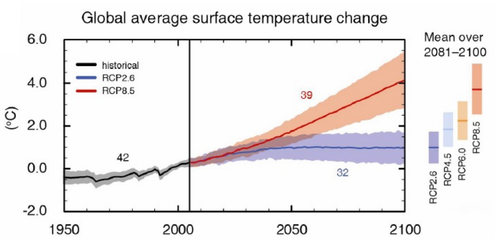
Credits: 02 (Lectures 1.5 – Practices 0 .5– Self-study 06)

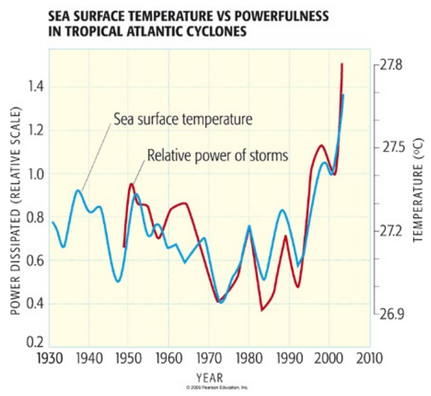
Course Expected Learning Outcomes

Abbri.	Course expected learning outcomes After completion of this course, students can	Expected learning outcomes of the program
Knowledge		
CELO1	Present the basic issues of climate change including causes, manifestations and forecasting of climate change	ELO2: Analyze environmental quality including designing and conducting experiments, collecting data, and interpreting results.
		ELO3: Evaluate the impact of natural resource exploitation and emissions on environmental quality
CELO2	Describe the impact of climate change on agriculture, water resources, health, ecosystems, industry and society	ELO3: Evaluate the impact of natural resource exploitation and emissions on environmental quality
CELO3	Identify climate change adaptation and mitigation measures	ELO4: Develop sustainable solutions for the management and protection of the environment and natural resources based on different perspectives of natural science, social science, and humanities
Skills		
CELO4	Statistical analysis of climate change trends	ELO 10: Use modern technology, equipment, and techniques in the management and protection of the environment and natural resources.
CELO5	Calculation of carbon footprint	ELO 10: Use modern technology, equipment, and techniques in the management and protection of the environment and natural resources.
CELO6	Negotiating to reduce climate change	ELO7: Work in groups and lead multi-functional teams effectively.
Attitude		
CELO7	Develop learning orientation and update knowledge	ELO11: Define a clear career orientation; possess a passion for one's career and a sense of lifelong learning

Course contents

- Chapter 1: Introduction to Climate and climate Change
- Chapter 3: Climate change observations
- Chapter 3: Climate change projections
- Chapter 4: Impacts of climate change
- Chapter 5: Adaptation to climate change
- Chapter 6: Climate change mitigation





Learning methods

- Self-read materials provided by teachers through online learning page (http://elearning.vnua.edu.vn; MS teams)
- Attend lectures in the classroom and discuss issues related to the lectures in person or through the online learning site
- Practice analyzing climate change trends and calculate carbon footprints at the computer room
- Group discussion on climate change issues
- Writing an essay related on carbon footprint

Evaluation and grading

- Grading scale: 10
- Evaluation:

Class participation	Practice	Group discussion	Essay	Final exam
10%	25%	5%	10%	50%

Responsibility of students

- Attend class: Students must attend at least 75% of the lectures and enthusiastically participate in class activities
- Preparing for the lecture: Students must read reference materials as instructed by the instructor before attending the lectures
- Practice: All students must attend 3 practice sessions
- Assignment: Students must complete an asigned essay
- Final exam: students must take the final exam

In charge lecturers

Dr. **Nguyen Thi Bich Yen**,

Email: ntbyen@vnua.edu.vn

MSc. **Tran Thi Thanh Van**

Email: thanhvan0909@gmail.com