COURSE SYLABUS
SH01001: GENERAL BIOLOGY
Credits: 02 (Lectures 1.5 - practices 0.5 - self-study 06)
EXPECTED LEARNING OUTCOMES

Notation	Course Expected Learning Outcomes After successfully completing this course, students are able to:	Program Expected Learning Outcomes
	Knowledge	
CELO1	**Present** fluently the structure and the function of organelles in cells; differences between Prokaryoticc and Eukaryote cells; characteristic of biological processes in the cells and the body; The biological evolution.	**ELO1**: Apply the knowledge of natural science, politics, social science and humanities, law, economics, and awareness of contemporary issues in the field of environmental sciences.
CELO2	**Explain** the scientific basis of some common activities in life and agriculture such as propagation of crops and livestock, preservation of agricultural products, animal feed processing, food preservation and processing, environment handling, and protection.	**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.
Skills		
CELO3	**Use proficiently** the microscopies and basic equipment in biological practices, **be master** at microscope templates.	**ELO 6**: Apply systematic, critical, and creative thinking in solving problems in the environmental and related fields.
Attitute		
CELO4	**Follow** the course rules; be honest in reporting, taking exams.	**ELO11**: Define a clear career orientation; possess a passion for one's career and a sense of lifelong learning.
CELO5	**Actively learn** and raise awareness of self-study, humility, serious working style; have a high sense of responsibility.	**ELO11**: Define a clear career orientation; possess a passion for one's career and a sense of lifelong learning.

Brief descriptions

Chapter 1: An overview of the organism's organization. Chapter 2: The energy processes and metabolism of cells Chapter 3: The cell division and reproduction in organisms Chapter 4: The induction and adaptability of organisms Chapter 5: The biological evolution.	Practice lesson 1: Microscope - how to use and observe cells. Practice lesson 2: Observing the plasmolysis and the de- plasmolysis of the cell. Practice lesson 3: Observing the phases of mitosis and mitosis of cells

Learning methods	Assessment methods
-Students read documents by themselves, prepare lessons before going to class, listen to lectures; learn through E-learning. - Students participate in learning activities in class such as answering questions, doing exercises, discussing in groups. - Students do practice in groups or individually. - Students learn online.	1. Scale: 10 2. Weighting - Class attendance: 10% - Practice score: 10% - Mid-term test score: 20% - Final exam: 60%

Student tasks

- Must attend at least 2/3 of the total theoretical hours and 100% of the practice hours.
- Must prepare lessons according to the learning plan of the module that the lecturer has agreed on.
- Must participate fully and seriously in discussions, mid-term exams, and final exams.

-For online learning: Students need to install learning software and fulfill the teacher's requirements for online learning.

Key academic staffs

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