COURSE SYLABUS

Basic of Production Process

Credits: 02 (Lectures 02 – Practises 0 – Selfstudy 06)

Code: MT 02005

EXPECTED LEARNING OUTCOMES

Indicators	Upon the completion of the course, student able to	Expected learning outcomes of program
Knowledge		
CELO1	Understand solid/liquid/gas wastes generation norms according to production activities; natural resource use norms in the production process.	ELO2: Apply the knowledge of natural science, politics, social science and humanities, law, economics, and awareness of contemporary issues in the field of environmental sciences. ELO3: Evaluate the impact of natural resource exploitation and emissions on environmental quality.
CELO2	Understand of environmental issues due to manufacturing processes	ELO2: Apply the knowledge of natural science, politics, social science and humanities, law, economics, and awareness of contemporary issues in the field of environmental sciences.
CELO3	Explain environmental parameters in production technology analysis and evaluation	ELO2: Apply the knowledge of natural science, politics, social science and humanities, law, economics, and awareness of contemporary issues in the field of environmental sciences.
Skills		
CELO4	Effective teamwork through discussion and description of production systems and related environmental issues	ELO 7: Work in group and Lead the multi-functional team effectively.
CELO5	Presentation of complete report / communication in information gathering for learning and thematic reports.	ELO8: Communicate effectively via oral, written, and multimedia means with stakeholders in a dynamic environment; Satisfy the English requirement of the Ministry of Education and Training.Professional skills
Attitute		
CELO6	Actively learning and updating knowledge related to the environmental and pollution issues.	ELO11: **Define** a clear career orientation; possess a passion for one's career and a sense of lifelong learning.

Brief descriptions

Introduction. Concepts and classification of production process

Chapter 1. Theories of system analysis in production process assessment

Chapter 2. Methods for describing the production process and material flows

Chapter 3. Issues related to the norm of fuel and energy use and the generation of waste during production.

Learning methods

- Self-study: reading documents, doing exercises, studying materials
- Join in the discussion, exchange idea in class
- Group learning: discuss issues related to the type of wastes emitted according to the production methods.
- E - learning: Search and look up documents; group discussion by topic; do homework.

Assessment methods

- Grading scale : 10
- In which: Progress 50%, final exams 50%

Attending class (10%)	Group discussion (10%)	Presentation (10%)	Mid-term test (20%)	Final exam (50%)

Student tasks

- Attendance: Students must attend at least 75% of the class and participate in class activities.
- Presentation and Discussion: Students must participate in class discussions; work in groups to make presentations; develop thematic essays on demand.
- Self-study: Students should read; synthesizing materials provided by lecturers through E-learing system, conducting group discussions with the instructor's guidance.

Key academic lectures

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