

COURSE SYLABUS CLEARNER PRODUCTTION

TO THE NAME NAME OF

Credits: 02 (Lectures 02 – Practices 0 – Self-studey 06) Code: MT 02002

EXPECTED LEARNING OUTCOMES

| Abbreviation | Course expected learing outcomes after completiton of this course, students can | Expected learning outcomes of the program |
|--------------|---|---|
| Knowledge | | |
| CELO1 | Present basic concepts of cleaner production | ELO2: Analyzing environmental quality includes the design and implementation of environmental experiments, as well as data collection and interpretation. |
| CELO2 | Analyze technical solutions to achieve cleaner production | ELO3: Assess the impact of resource use and emissions on environmental quality. |
| CELO3 | Implement the CP assessment process | ELO4: Building sustainable solutions for the management and protection of the environment and resources based on different perspectives of science, humanities and society. |
| CELO4 | CP implementation in some industrial areas | ELO 5: Designing waste treatment facilities (solid, liquid and gas) according to national and international standards and regulations. |
| Skills | | |
| CELO5 | Material balance calculation, cost estimation of waste sources are carried out, feasibility analysis of cleaner production options | ELO 6: Applying systematic thinking, critical thinking and creative thinking in solving environmental industry issues and related fields. |
| CELO6 | Independent working skills, teamwork | ELO7: Work in group and Lead the multi-functional team. |
| CELO7 | Discussion and report writing skills | ELO 10: Using modern technology, equipment and techniques in natural resources and environment management and protection activities. |
| Attidudes | | |
| CELO8 | Enthusiastic, proactive, creative in learning | ELO11: Clear future orientation, career passion and a sense of lifelong learning. |

COURSE CONTENTS

Chapter 1: Basic concept ot Clearner production

Chapter 2: Clearner production acessment process

Chapter 3: Clearner production in somes industrial areas

RESPONSIBILITY OF STUDENTS

Attendance: All students attending this module must attend at least 75% of class time and 100% of class discussions.

- Preparing for the lecture: All students attending this module must read the chapters of the next session.
- Presentation and Discussion: All students attending this module must take part in the thematic essay and ondemand group discussion.
- Self-study: Students should actively read and synthesize materials instructed by lecturers

LEARNING METHODS

- Students participate in lectures and group discussions
- Students read the materials themselves, synthesize information related to the subject and group discussions
- E-learning: self-research, exchange electronic documents

EVALUATION AND GRADING

· Grading scale: 10

Participation (10%)

Group report and presentation (30%)

Final test (60%)

LECTURERS

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