



Syllabus

1. **Course name:** Industrial Skills

2. **Course code:** INSK331663

3. **Credits:** 3 credits (3:0:6) (3 lecture periods, 0 lab period, 6 self-study periods per week)

4. **Instructors**

a. Chief lecturer: Assoc. Prof. Dr. Nguyen Thanh Hai

b. Co-lecturers: MEng.. Duong Văn Bình

5. **Course Requirements**

Prerequisite course(s):

Previous course(s):

6. **Course Description**

This subject provides students with knowledge of situations that often occur in the industrial environment and how to approach and solve problems. Therefore, students should form skills to quickly integrate in the industrial environment after graduation. In particular, the course will teach students about the way and career of an engineer, analysis in failure and success, as well as ways to handle data and working experiences.

7. **Learning Outcomes (CLOs)**

| CLOs | Descriptions | ELO(s) /PI(s) | Compe- tency |
|------|--|------------------|-----------------|
| | <i>On successful completion of this course students will be to:</i> | | |
| CLO1 | Ability to apply skills and knowledge in an industrial environment. | ELO1/PI1.1 | R |
| CLO2 | Ability to analyze for solving problems in industry | ELO7/PI7.2 | R |
| CLO3 | Ability to work in a group, read and understand technical documents in English | ELO5/PI5.1,5.2 | R |
| CLO4 | Ability to calculate, manage a system and data | ELO9/PI9.2 | R |

Notice: I (Introduction); R (Reinforce); M (Mastery)

8. **Content outline**

- The way and career of an engineer in a real environment
- Visiting the factory and meeting the leader and people with experience for exchange
- Solving problems according to real-life assumptions
- Failure analysis and failure effects from problems occurring in companies
- Analyzing some data or possible situations
- Problems and situations to be able to succeed in system monitoring and management

9. **Teaching Methods**

- *Powerpoint presentation*
- *Teamwork*

10. **Assessment(s)**

- Grading scale: **10**

– Assessment plan:

| No. | Content | CLOs | Competency | Assessment methods | Assessment tools | Weighting % |
|-----------------------------|---|------------------------------|------------|------------------------------------|------------------|-------------|
| Summative assessment | | | | | | 100 |
| 1 | How to solve a practical problem, analyse data and situations in management and supervision | CLO1 CLO2 CLO3 CLO4 | R | Multicoice questions, brief report | Rubric | 100 |

11. Learning Materials

[1] Materials of enterprises and instructor powerpoint slides.

[2] Relative materials in the HCMUTE library.

12. General Information

Academic Integrity

All students in this class are subject to HCMUTE's Academic Integrity Policy (<http://sao.hcmute.edu.vn/>) and should acquaint themselves with its content and requirements, including a strict prohibition against plagiarism. Any violations will be reported to the Faculty of Electrical and Electronic Engineering Dean's office.

Flexibility Notice

Any information in this syllabus (other than grading and absence policies) may be subject to change with reasonable advanced notice. Students need to regularly update the information of their registered class.

Intellectual Property

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13. Approval Date: <dd/mm/yyyy>

14. Endorsement:

| Dean | Head of Department | Chief Lecturer |
|---|--|----------------|
| Assoc. Prof. Dr. Nguyen Minh Tam | Assoc. Prof. Dr. Nguyen Thanh Hai | <Full Name> |

15. Revision History:

| | |
|--|--|
| 1st Revision: <dd/mm/yyyy> | Lecturer: Head of Department: Assoc. Prof. Dr. Nguyen Thanh Hai |
| 2nd Revision: <dd/mm/yyyy> | Lecturer: Head of Department: |