



CD02611: ELECTRIC ENGINEERING

Total credits 2: theory 2 - practice 0 - Self- study 6

EXPECTED RESULTS

Notation	Course expected learning outcomes After successfully completing this course, students are able to	Program expected learning outcomes
Knowledge:		
K1	Present the basics of electrical circuits, AC single-phase circuit, three-phase in practice and specialized equipment	ELO1, ELO3, ELO4, ELO5
K2	Describe accurately the structure, working principles of electrical machines, principles control some kind of power plant commonly used in practice and specialized equipment	ELO3, ELO4, ELO5
K3	Describe accurately the structure and working principles of basic low-voltage electrical tools commonly used in practice and specialized equipment.	ELO3, ELO5
Skill:		
K4	Calculate sinusoidal circuit, electrical machines to evaluate technical characteristic and select electrical equipment in the production line;	ELO12, ELO13
K5	Discuss, present logic problems, have scientific basis; using means to search and find information related to electrical engineering	ELO8

COURSE DESCRIPTION

- Chapter 1: Basic circuit concepts
- Chapter 2: Single-phase sinusoidal circuits
- Chapter 3: Three-phase sinusoidal circuit
- Chapter 4: General concept of electric machines
- Chapter 5: Transformer
- Chapter 6: Asynchronous machines
- Chapter 7: Synchronous machines
- Chapter 8: DC machines
- Chapter 9: Low-voltage electric tools

LEARNING METHODS

- Students absorb lectures on an individual basis;
- Discuss and resolve issues on an individual or group basis;
- Self learning; E-learning.



STUDENT TASKS

- All students who take part in this module must attend at least 80% of the lecture hours;
- Prepare documents, read references;
- Complete the assigned missions;
- Participate in all examinations in accordance with regulations.



LECTURERS

1. PhD. Nguyen Thị Hien
2. MS. Mai Thi Thanh Thuy
3. MS. Nguyen Van Đạt



ASSESSMENT METHODS

- 10 score scale
- The course average is the sum of the rubric scores multiplied by the respective weight of each rubric
- Evaluation of the process: 50%: Attendance assessment, attendance; discussion and midterm examination
- End-of-term evaluation 50%: Essay

