### **ELECTROMECHANICAL**

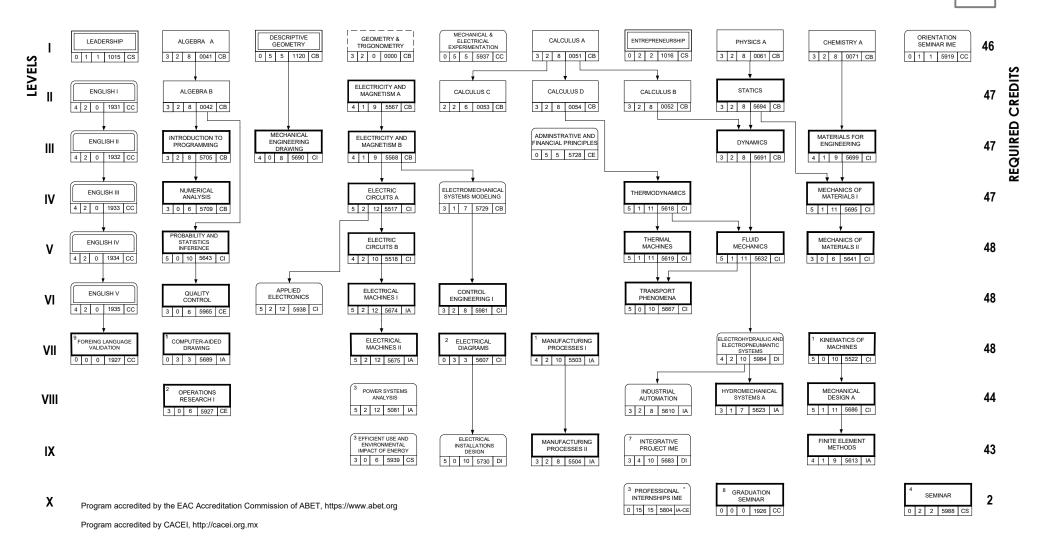
**ENGINEERING** 





## **CURRICULUM**

**JUNE 2021** 



#### COLLEGE OF ENGINEERING COURSE CLASSIFICATION

#### HUMANISTIC PREREQUISITE PROGRAM MATH-PHYSICS MEED TRAINING

#### **NOMENCLATURE**

#### . Academical notes Number of lecture hours per week Number of laboratory hours per week Number of credits 5. Course identification number for the 2 3 4 5 6

### 6. CACEI Identification Key

## 7. Course name 8. Level 9. Previous course key

### **CACEI CLASSIFICATION**

- CB. Basic science and mathematics CI. Engineering science (basic engineering) DI. Engineering design
- IA. Applied engineering
  CS. Social sciences and humanities
- CE. Economic-administrative sciences
- CC. Complementary courses

# ELECTROMECHANICAL FNGINFFRING

3 0 6 1908 CC

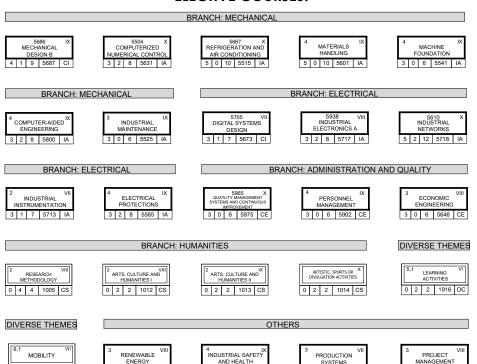
3 0 6 5680 IA





# CURRICULUM JUNE 2021





3 0 6 5972 IA

### **ACADEMIC NOTES:**

- 1. This course can be taken after having approved 180 credits.
- 2. This course can be taken after having approved 270 credits.
- 3. This course can be taken after having approved 315 credits and the compulsory courses up to level VI.
- 4. This course can be taken after having approved 360 credits.
- 5. This block represents 10 Courses, named: Learning Activities I, II, III, IV, V, VI, VII, VIII, IX, and X, with consecutive key, 1916 to 1925, respectively.
- 6. This block represents 8 courses, named: Mobility I, II, III, IV, V, VI, VII, and VIII, with consecutive key, 1908 to 1915, respectively.
- 7. This course can be taken after having approved 360 credits and accredited all the compulsory courses up to level VII (does not include validation of the foreign language) and cannot be taken simultaneously with Professional Practices course.
- 8. This course is accredited through the presentation of the National General Graduate Examination (EGEL-IME). The exam must be taken when all the courses have been approved up to level VII (does not include the validation of the foreign language) and in the last semester of the curriculum.
- 9. This course can be accredited after having approved 315 credits and passing the English language proficiency assessment exam, specified by the Mechanical and Electrical Department (MED).

To accredit the courses, the corresponding laboratory must be accredited.

To achieve the internship, all the compulsory and the necessary elective credits, to cover at least 450 credits, must be approved.

### PROGRAM EDUCATIONAL OBJECTIVES:

In the years following graduation, graduates of the program will:

3 2 8 5647 IA

- develop, in the field of electromechanical engineering, effective and innovative solutions to problems related to electromechanical components.
- participate in engineering design for the development of new products or processes or in the improvement of existing ones; satisfying social needs through technical and economic evaluation, and environmental and social impact.
- communicate effectively in oral, written and graphic form to transmit ideas, analysis and results of situations of electromechanical engineering; in person and remotely to multidisciplinary groups.
- behave with ethics and social responsibility in their actions and in the practice of Engineering, attaining sustainable development.

3 0 6 5909 CE

- collaborate in multidisciplinary teams, in order to generate successful solutions to engineering problems.
- participate in technological development and innovation to optimize production systems and processes through an experimental methodology.
- continue professional growth through self-taught learning, continuing education and postgraduate studies...