**Bachelor’s Degree**

**Objectives:** The program is structured in 6 semesters, the first two of which (Common base) concern all students in the Science and Technology field. The third semester is a pre-specialization and brings together all students from the Electrical Engineering family. From semester 4, the courses become specialized and are essentially oriented towards electrical engineering.

**Skills and competences:** This degree, due to its generalist nature, offers a balanced teaching in the four areas of electrical engineering, namely: electrical machines, electrical networks, automation and power electronics. It is motivated by the fact that nowadays, the four options of electrical engineering are very closely linked (an electrical machine is often used with a static converter and the control circuit).

**المعرفة والمهارات:** توفر درجة الليسانس هذه، بحكم طبيعتها العامة، معتمدة من موارد من مجالات الهندسة الكهربائية، والشبكات الكهربائية، والتحكم الآلي، والكترونيات. الدافع وراء ذلك هو حقيقة أن التخصصات-four areas of electrical engineering are very closely linked (an electrical machine is often used with a static converter and the control circuit).
**Master Degree**

**Objectives:** The program is structured in 4 semesters, the first of which (Common) concerns all students of the Master 1. The second and third semesters constitute a pre-specialization of one of the three electrical engineering fields.

**Skills and competences:** The teaching is becoming specialized and is essentially oriented towards industrial electrical engineering, electrical control and electrical networks.

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**Electrical Networks**

**The program of Electrical Networks:** is designed to provide students with a thorough understanding of the fundamental principles of electrical networks, and their applications in various fields, such as power systems, electronic circuits, and industrial automation.

**Includes the following topics:** Basic circuit theory, Network theorems, AC circuit analysis, Three-phase systems, Transformers, Power system analysis, Transmission lines, Electric machines, and Renewable energy systems.

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**Electrical Control**

**The program of Electrical Control:** is designed to provide students with a thorough understanding of the fundamental principles of control systems, and their applications in various fields, such as industrial automation, robotics, and process control.

**Includes the following topics:** Basic circuit theory, Control system components, Signal processing, Control system design, Control system analysis, Programmable logic controllers, Process control.

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**Industrial Electrical Engineering**

**The program of Industrial Electrical Engineering:** is designed to provide students with a thorough understanding of the fundamental principles of electrical engineering, and their applications in industrial systems, such as power distribution, automation, and control.

**Includes the following topics:** Basic circuit theory, Electrical machines, Power electronics, Control systems, Programmable logic controllers, Industrial automation, and Safety and regulations.

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