

## **Industrial Engineering**

### **Industrial Engineer – 6 years**

#### **Objective**

To study the production and productivity of goods and services, taking into consideration technological, organizational, commercial, economic, financial, efficiency and optimization factors in production systems.

#### **Contents**

The syllabus is organised in two cycles. The basic cycle is aimed at training students in engineering sciences to lay the foundations for the superior or specialization cycle. The latter deals with subjects concerning the critical study of the organization of productive resources, as well as with the necessary mechanisms for engineers' proficient performance in the national industry.

#### **Job Opportunities**

Industrial Engineers are qualified to: study, plan, run, administrate, build, inspect, operate and maintain industrial and service companies; and transportation, electrical energy, water and gas installations. They can carry out studies concerning the functional aspects of industrial buildings; selection of industrial machinery and instruments; profitability and industrialization of human resources and raw material; issues connected to economic and financial legal engineering; arbitrages and valuations; hygiene and safety; and the teaching of basic technical and scientific knowledge.

Industrial Engineers can work in industrial plants; factories' offices, service companies; laboratories and classrooms.

Their job concerns the verification and fulfilment of political, legal, social, commercial, technical, economic, financial, ecologic, environmental and safety regulations of installations and materials.