

Course Syllabi

1. INGE-00023 DIBUJO ASSISTED BY COMPUTADOR

2. Instructor:

- Carlos Mauricio Sanchez Alvarracin

3. Bibliography

- AUTOCAD 2014 CURSO PRÁCTICO (4963788), CEBOLLA,C, 2014
- EXPRESIÓN GRÁFICA EN INGENIERÍA. INTRODUCCIÓN AL DIBUJO INDUSTRIAL. (106570), PEREZ, J., 2006

4. Specific Course Information

- a. Computer-assisted drawing is a fundamental support for engineering development, since it facilitates modelling, updating, modification, revision and intervention in graphic design, in various lines of the academic program of the chemical engineering career such as Process Design, Equipment Design, among others. This subject offers the student a critical training, based on analysis and the development of skills and skills to communicate ideas in a way that allows the students to understand and understand the problems of computer-assisted design. ara, precise and effective in graphic and symbolic languages, supported by the corresponding standards, specifications and Information and Communication Technologies.
- b. Prerequisites:
 - MAES-00101 Linear algebra
 - MAES-00093 Differential calculation

5. Learning Objectives of the Course

- a. To acquire theoretical and practical knowledge to master the techniques of drawing to make designs in two and three dimensions. - To design, elaborate and interpret planes in two and three dimensions and specifications of specialized equipment in the field of chemical engineering, using computer assisted drawing. - To apply the basic tools of computer assisted drawing (CAD), as a base of entry to the exploration of the different aids and utilities for the design, editing, correction and presentation of technical diagrams and drawings.

b. Learning Outcomes

1. It manages the basic concepts of international standards relating to technical drawing applied to engineering.
2. It manages the basic concepts of international standards relating to technical drawing applied to engineering.
3. It represents and interprets machinery, equipment, instrumentation and pipes by means of technical drawing applied to engineering.
4. It represents and interprets machinery, equipment, instrumentation and pipes by means of technical drawing applied to engineering.
5. It handles computer-assisted drawing (cad), as a working tool in engineering.
6. It represents and interprets machinery, equipment, instrumentation and pipes by means of technical drawing applied to engineering.
7. It manages the basic concepts of international standards relating to technical drawing applied to engineering.
8. It represents and interprets machinery, equipment, instrumentation and pipes by means of technical

drawing applied to engineering.

9. It handles computer-assisted drawing (cad), as a working tool in engineering.

6. Course Topics

1. Introduction to the technical drawing
2. Modeled in two dimensions
3. Process flow diagrams
4. Modeled in three dimensions of chemical process equipment