

Course name: COMPUTER AIDED DESIGN 1

Course code: DEG 110

Course hours: Credit hours 3, Contact hours 4

Course Pre-requisites: None

Course Description

Introduction to the fundamentals of Computer Aided Design, beginning with simple drawing commands in a suitable common industrial grade computer software, in addition to standard drafting methods to produce technical and standard 2D architectural drawings.

Course Main Objective

In this course, the students will be to:

- Introduce the world of digital architecture, and to present a general knowledge about computer uses in architecture.
- Develop the students' skills of efficient use of 2D CAD tools (latest version of a common industrial grade computer software) in both architectural design and detailing.
- Familiarize the students to CAD as a step towards learning BIM.
- Improve students' ability to initiate, execute and finalize a computerized project.

Course Learning Outcomes

After the completion of this course, the students will be able to;

- Compare CAD, BIM, and other digital applications.
- Use CAD software to generate architectural drawings.
- Modify digital drawing for different purposes.
- Manage CAD outcomes efficiently.

Course evaluation

- Quizzes, practical assignments
- Weekly/biweekly reviews
- Midterm examination
- Attendance
- Final examination

Course recommended books

- AutoCAD 2019 Instructor: A Student Guide for In-Depth Coverage of AutoCAD's. By: James Leach, Shawna Lockhart, Eric Tilleson.

Course References

- AutoCAD 2019 help files