

Course name: COMPUTER AIDED DRAFTING 2

Course code: DEG 111

Course hours: Credit hours 3, Contact hours 4

Course Pre-requisites: DEG 110

Course Description

This course intended to develop student's knowledge, skills and capabilities necessary for carrying out digital visualization processes, using selected BIM program (Building Information Modelling) specialized in rendering and 3D modelling that reflects the student's talent and personal creativity. The course includes also how to achieve the integration between the different types of drawings. Generally, lectures focus on teaching students digital modelling techniques through practical exercises and selected projects using Revit Architecture.

Course Main Objective

- Comprehend user interface for a selected architectural 3D modelling software,
- Develop and produce professional 3D drawings for architectural project using: texturing, materializing, lighting, and other rendering tools,
- Develop their skills in 3D imaging and animation processing techniques,
- Produce full set of architectural drawings with specific scaling.

Course Learning Outcomes

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

- Recognize and be familiar with BIM software user interface, modelling and drawing's tools.
- Create full presented 3D views and animation for architectural project
- Show ability to produce full project- set of - drawings with proper scaling

Course evaluation

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

Course recommended books

- Lance Kirby, Eddy Krygiel, Marcus Kim. (2017). Mastering Autodesk Revit 2018. A Wiley Brand

Course References

- A series of Autodesk Revit - Tutorial for Beginners [COMPLETE] (online videos)
- Autodesk Revit 2018 help files