Course Description

BCN1272| Building Construction Plans Interpretation 1 | 3.00 credits

Develops the students' ability to interpret working drawings. Students will learn the conventions of graphic and symbolic language used by construction professionals to communicate information on drawings. Emphasis is on architectural and structural details with limited coverage on mechanical and electrical aspects.

Course Competencies

Competency 1: The student will demonstrate knowledge of the fundamental concepts of building construction representation by:

1. Interpreting orthographic projections of building components
2. Identifying architectural symbols used in working drawings and the materials represented
3. Identifying the symbols for electrical, mechanical, and plumbing materials and equipment
4. Identifying the alphabet of lines and the purpose of lines within the drawing

Competency 2: The student will demonstrate knowledge of wood and masonry construction details by:

1. Identifying the various components of wood and masonry construction in residential buildings
2. Identifying dimensions and standard sizes of materials
3. Analyzing standard assemblies of wood and masonry materials in construction details

Competency 3: The student will develop the ability to use and read Architect's and Engineer's scales by:

1. Identifying different scales used in construction drawings
2. Obtaining accurate dimensions and sizes using different scales shown in drawings
3. Identifying dimensioning methods used for the various drawing elements and construction types

Competency 4: The student will develop the ability to obtain specific information about buildings by:

1. Reading and interpreting the different building components as drawn and detailed in a set of working drawings
2. Understanding the fundamental concepts of building construction sequence as it relates to drawings in a set

Learning Outcomes:

- Use quantitative analytical skills to evaluate and process numerical data
- Formulate strategies to locate, evaluate, and apply information
- Use computer and emerging technologies effectively
- Demonstrate an appreciation for aesthetics and creative activities