

Course name: SPECIFICATIONS AND QUANTITIES

Course code: DEG 466

Course hours: Credit hours 1, Contact hours 2

Course Pre-requisites: DEG 222

Course Description

The course discusses the principles, theories and technical systems of quantities and specifications and their importance as one of the important elements in the construction industry. Analysis of economic variables that contribute to determining the prices of the construction process of materials, laborers and equipment. The method of calculating the quantities of items for the implementation of buildings and various structural elements of drilling and embankment, concrete and insulating layers and concrete works and the work of buildings and finishes complete, and access to brief specifications of these works with training on a small project.

Course Main Objective

In this course, the students will be to:

- Appropriate understanding and application of building material systems and their Know the concept of calculation quantities and specifications.
- Understand all items and works of construction.
- Ability to collect, evaluate, register and apply information relevant to quantities and specifications.
- Ability to perform works of calculation of quantities.
- Ability to plan and put the general specifications for all items and works of construction.

Course Learning Outcomes

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

- Understanding the concept of calculation quantities and specifications.
- Understanding all items and works of construction.
- Understanding how to collect, evaluate, register and apply information relevant to quantities and specifications.
- Ability the fundamentals of building costs.
- Ability to plan and put the general specifications for all items and works of construction.
- Ability to perform works of calculation of quantities.

Course evaluation

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

Course recommended books

- Standard Specification for Municipal Civil Engineering Works, 3rd Ed., Pretoria, 2005.

Course References

- "Architectural Technology - Quantities and Architectural Specifications", Technical and Vocational Training Corporation - Saudi Arabia, 2010.
- Robert Effective Project Management, K. Wysocki and Rudd Mc. Gary, 2006, Wiley.
- The Project Management Question and Answer Book, Michael W. Newell and Marina, 2004, N.Y.
- Illustrated lectures and a scientific material prepared according to the PowerPoint program.