Course Information
Division: ASET
Contact Hours: 60
Theory: 30
Lab Hours: 30
Total Credits: 3

Prerequisites: CONM 101 – Materials of Construction and CONM 110 – Blueprint Reading

Course Description
A comprehensive course that introduces proper project planning, scope, and schedule development. Topics include activity durations and the methods of determining them, PERT, precedence, linear scheduling, resource allocation development of a work breakdown structure, resource loading, cost loading, and resource-leveling. The students will identify the required activities, resources, and costs required to monitor a project throughout the construction process. Students will be required to complete both manual and computerized scheduling assignments. Students will use “Primavera” scheduling software to complete assigned projects.

This course is a required core course for students pursuing an AAS in Construction Management Technology

Program Outcomes Addressed by this Course:

Upon successful completion of this course, students should be able to meet the program outcomes listed below:

A - Analyze, interpret and understand the fundamental processes used to create project designs and construction documents.
B - Define the roles, relationships and responsibilities of the participants in the design and construction process.
D - Employ the methods, materials, used in the design and construction of buildings and civil works.
E - Accurately quantify materials required for project construction.
F - Interpret construction documents to accurately predict project costs and assign resources.
I - Operate industry-standard software for computer-aided design and drafting (CADD), project cost estimating, and project scheduling.
CONM 240 – Construction Planning and Scheduling w/Primavera

Course Outcomes
In order to evidence success in this course, the students will be able to:

CLO-1 Demonstrate knowledge of the construction cost estimating process including inputs, tools and techniques, and outputs.

A - Analyze, interpret and understand the fundamental processes used to create project designs and construction documents.

CLO-2 Identify different type of estimates; estimates formats (CSI format and Unifor rm), level of details, and different type of costs; direct, indirect, fixed, and variable costs.

D - Employ the methods, materials, used in the design and construction of buildings and civil works.

CLO-3 Apply different estimating techniques to calculate the costs of various construction activities and project components.

F - Interpret construction documents to accurately predict project costs and assign resources.

E - Accurately quantify materials required for project construction.

CLO-4 Analyze and evaluate construction drawings and specifications to identify project requirements and develop accurate cost estimates, calculate quantities; conduct quantity take-off

E - Accurately quantify materials required for project construction.

CLO-5 Utilize software programs commonly used in the construction industry, such as Excel or RS Means, REVU Bluebeam, to perform cost estimating and take-off tasks.

I - Operate industry-standard software for computer-aided design and drafting (CADD), project cost estimating, and project scheduling.

E - Accurately quantify materials required for project construction.
Course Outcome Summary
Required Program Core Course

CONM 240 – Construction Planning and Scheduling w/Primavera

CLO-6 Develop a comprehensive understanding of the bidding process, including the preparation of bid proposals and the selection of subcontractors and suppliers.

B - Define the roles, relationships and responsibilities of the participants in the design and construction process.

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