Course Syllabus

Course: Bachelor of Science in Construction Engineering Management

Qualification Lv: 6

Credit: 120

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Programme Aims:

The Construction Engineering Management program is to educate and prepare students to succeed in the construction engineering management profession by providing them with essential technical, managerial and communication skills and tools which will enable them to perform current and future construction engineering management tasks and to promote the need for life-long learning.

Educational Objectives:

The Construction Engineering Management program educational objectives are to produce graduates, who after entering the construction engineering management practice with the knowledge of fundamental construction engineering management principles and current technologies, communication skills and practical construction experience, will:

1. Provide substantial contributions to the construction industry.
2. Pursue life-long learning through continuing education and/or advanced degrees in construction engineering management or other related fields.
3. Continue to develop professionally through participation in professional organizations and/or participation in professional development activities in the industry.
Core Module:

CEM 406 Project Cost-Benefit Analysis
CEM 304 Applied Mechanics Strength of Materials
CEM 315 Construction Safety
CEM 324 Commercial, Institutional, and Industrial Construction Practices and Estimating
CEM 335 Soil Mechanics Technology
CEM 335L Soil Mechanics Technology Laboratory
CEM 365 Mechanical Equipment for Buildings
CEM 375 Electrical Equipment Buildings
CEM 404 Structural Design I
CEM 421 Construction Planning and Scheduling
CEM 425 Earthwork and Civil Works Construction Practices
CEM 426 Business and Construction Law
CEM 429 Advanced Estimating and Bidding

Electives:

MGMT 413 Managing Quality for Productivity
HRM 361 The Human Resource Function

Assessment:

Assignment(s) or/and Case Studies or/and Project 100%