



Bachelor of Science in Construction Engineering Management (Top-up)

Mission:

The Mission of 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.

Students should have good knowledge in Calculus and General Physics to be admitted into this program.

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.

Content:

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:

Take one of the following

MGMT 413 Managing Quality for Productivity

HRM 361 The Human Resource Function