EGM. ENGINEERING MANAGEMENT

EGM-320. ENGINEERING PROJECT MANAGEMENT AND ANALYSIS
Credits: 3

Pre-Requisites
Junior standing in engineering.

EGM-321. QUANTITATIVE ANALYSIS AND PROGRAMMING METHODS
Credits: 3
Discussion of various quantitative analysis and optimization methodologies. Analytical numerical approaches are used in solving linear and nonlinear optimization problems. Emphasizes the development of ability in analyzing problems, solving problems by using software, and post solution analysis.

Pre-Requisites
Junior standing in engineering or consent of the instructor.

EGM-336. ENGINEERING AND MANAGEMENT MODELS
Credits: 3
Discussion of the techniques in and the art of modeling practical problems encountered by engineers and managers.

Pre-Requisites
Junior standing in engineering or consent of the instructor.

EGM-391. SENIOR PROJECTS I
Credits: 1
Design and development of selected projects in the various fields of engineering under the direction of a staff member. Technical as well as economic factors will be considered in the design. A detailed progress report is required.

Pre-Requisites
Senior standing in engineering, EMG-320

EGM-392. SENIOR PROJECTS II
Credits: 2
Design and development of selected projects in the field of engineering management under the direction of a staff member. Technical as well as economic factors will be considered in the design. A professional paper to be presented and discussed in an open forum is required.

Pre-Requisites
EGM-391