

Master Syllabus

OPT 2206 - Value Analysis

Division: Science, Mathematics and Engineering

Department: Operations Technology

Credit Hour Total: 2.0

Lecture Hrs: 2.0

Date Revised: October 2012

Course Description:

An introduction to the purpose and need for Value Management techniques to reduce the cost of a product or process while maintaining the quality and functional requirements of the product or process.

General Education Outcomes:

- ▣ Oral Communication
- ▣ Written Communication
- ▣ Critical Thinking/Problem Solving
- ▣ Information Literacy

Course Outcomes:

Value Management Purpose

Enable the student to describe purpose and use of Value Management.

Assessment Method: Locally developed exams

Performance Criteria: 70% correct on exam

Assessment Method: Simulations

Performance Criteria: 70% of available points on class project

Value Management Techniques

Enable the student to use specific techniques to analyze and implement Value Management project improvements.

Assessment Method: Locally developed exams

Performance Criteria: 70% correct on exam

Assessment Method: Simulations

Performance Criteria: 70% of available points on class project

Value Management Application

Apply Value Management techniques to a typical industrial product or business process to achieve more value.

Assessment Method: Locally developed exams

Performance Criteria: 70% correct on exam

Assessment Method: Simulations

Performance Criteria: 70% of available points on class project

Outline:

Introduction to the concepts and history of Value Management
Introduction to the tools of V/M including FAST Diagrams, cost breakdown
Refining the technique of Brainstorming for product/process improvement
Be able to construct and analyze a Product Cost Analysis
Learn and apply techniques of Design for Manufacturability
Develop and determine an improved design on an existing product