

## 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

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### 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 Competency
- ▣ Written Communication Competency
- ▣ Critical Thinking/Problem Solving Competency
- ▣ Information Literacy Competency

### 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