

# **LOUISIANA TECH UNIVERSITY**

## **Master of Science in Engineering and Technology Management**

### **CURRICULUM**

- **Thirty-three semester hours (11 courses)**
  - **Engineering Courses – 6 courses**
    - **Engineering Administration**
    - **Industrial Statistics**
    - **Production Planning and Sequencing**
    - **Management of Engineering Functions**
    - **Global Competitiveness/Management of Technology**
    - **Quality Engineering**
  - **Business Courses – 4 courses**
    - **Contemporary Management**
    - **Personnel Law**
    - **Information Resource Management**
    - **Marketing Management**
  - **Elective Courses – 1 course**

### **COURSE DESCRIPTIONS**

#### **INEN 507 - Engineering Administration**

**Organization of the engineering function. Measurement and evaluation of engineering activities. Project management and control. Development of engineering managers.**

#### **INEN 514 - Industrial Statistics**

**Application of statistical techniques to industrial problems, relationships between experimental measurements using regression, correlation theories and analysis of variance models.**

#### **INEN 516 - Production Planning and Sequencing**

**Advanced methods in production planning. Sequencing criteria and algorithms. Job shop and flow shop sequencing. Computer application and simulation.**

#### **INEN 557 - Special Topics (Management of Engineering Functions)**

**The study of the organization and management of engineering functions in a variety of industrial settings.**

**ENGR 566 - Quality Engineering**

**Principles of quality as applied to engineering processes. Applications to the engineering workplace and industrial/academic research will be emphasized.**

**ENGR 631 - Global Competitiveness/Management of Technology**

**Principles of technology development and management in a global context, and their applications in the planning and implementation of new technological capabilities.**

**MGMT 510 - Contemporary Management**

**An analysis of management principles, functions, and practices with a particular emphasis on the application of theory to contemporary management issues and problems**

**MGMT 447 - Personnel Law**

**A survey of landmark cases involving the labor movement, federal and state wage and hour laws, industrial relations and current issues in personnel laws.**

**CIS 510 - Information Resource Management**

**Attention is given to strategic implementation of technology, secure and effective systems, externally focused systems, along with the historical and social environment of information systems.**

**MKTG 530 - Marketing Management**

**A course to introduce the student to the role of the marketing manager in the development and implementation of strategies in the areas of products, pricing, channels, and promotion.**