



UNIVERSITY OF THE  
COMMONWEALTH  
CARIBBEAN (UCC)

Fostering Leadership & Innovation

**FIU**

Engineering  
& Computing

FLORIDA INTERNATIONAL UNIVERSITY

# MASTER OF SCIENCE IN ENGINEERING MANAGEMENT



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***"Engineering management employment should grow by nearly 10% around the world between 2010 and 2020."***

*- US. Dept. of Labor*

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### **Contact us today:**

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graduatestudies@ucc.edu.jm

www.ucc.edu.jm



# LIST OF COURSES\*

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## **EIN 5226 Total Quality Management for Engineers (3)**

Fundamentals of TQM and its historical development. Integration of QC and management tools, QFD, benchmarking, experimental design for scientific management.

## **MAN 6167 Leadership in a Global Environment (3)**

The course is designed to provide the student with a clear understanding of current thinking in the area of leadership. It focuses on the holistic nature of leadership and the impact leaders have on individuals, groups, and organizations.

## **EIN 5359 Industrial Financial Decisions (3)**

The use of financial techniques and data in planning, controlling and coordinating industrial activities. This course will familiarize the student with accounting concepts and analytical methods.

## **ESI 6316 Applications of OR in Manufacturing (3)**

Overview of OR techniques. Manufacturing system and product selection. Shop loading, resource allocation, production scheduling, job sequencing, and plant layout problems.

## **MAR 6805 Marketing Management in the Global Environment (3)**

Analysis and application of theory and problem solving for marketing management in the global environment. Emphasis will be on the role of marketing in the organization; planning the marketing effort; management of the marketing organization; control of marketing operations; and evaluation of the marketing contribution.

## **LAW 5072 Business Law and Intellectual Property for Engineers and Entrepreneurs (3)**

Focused on the formation, governance, operation, and legal protection of business; coverage includes contracts, malpractice, product liability, employment law, and intellectual property law.

## **EIN 5332 Quality Engineering (3)**

This course examines quality control from an engineering standpoint. It covers ways to meet the challenge of designing high-quality products and processes at low cost.

## **EIN 6357 Advanced Engineering Economy (3)**

Review of engineering economy and the evaluation of advanced manufacturing systems. Evaluation of alternative capital investments considering income taxes, depreciation, inflation, risk and uncertainty.

## **EIN 6336 Advanced Production Planning and Control (3)**

Analytical and algorithmic planning methodologies, planning and scheduling technologies, sequencing rules, control strategies, and line balancing methods.

## **ESI 6455 Advanced Engineering Project Management (3)**

This course covers entire phases of project management including selection, planning, budgeting, scheduling, monitoring, and control. It focuses on the management of engineering projects through case studies and independent research assignment. Prerequisite: Permission of the instructor.

*\*Subject to Change.*

# APPLICATION PROCEDURE

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## **Individuals interested in applying for admission to the program should complete and submit the following:**

- Complete FIU Online Application for Graduate Degree Program at: [www.fiu.edu/gradadm/instruction\\_apply\\_online.htm](http://www.fiu.edu/gradadm/instruction_apply_online.htm)
- Official transcript(s) from every college/university attended
- Two (2) letters of recommendation
- Résumé
- Essay outlining statement of goals
- Application fee for US\$30.00 (credit card payment online or US current draft payable to FIU)

# CLASS STRUCTURE/DURATION/TUITION

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- Saturday evenings 6:30pm - 10:00pm
- Sundays 8:00am - 2:00pm
- 13 Month duration
- Hybrid schedule (7 courses face to face & 7 fully online)
- Access to FIU Online Portals & Instruction System