PROPOSED MASTER OF SCIENCE DEGREE
PROGRAM IN ENGINEERING TECHNOLOGY MANAGEMENT: 30 CREDITS

This graduate program offers two tracks with the courses listed below. Each course meets 3 hours per week and carries 3 credits.

TRACK ONE: ENGINEERING TECHNOLOGY MANAGEMENT: ELECTRICAL, COMPUTER, MECHANICAL, FACILITIES

REQUIRED COURSES (24-27 CREDITS)

ETM 501: Engineering Quality Management and Reliability

ETM 502: Project Management

ETM 503: Engineering Analysis

ETM 504: Engineering Technology Management Ethics and Policies

ETM 505: Energy and Power Management Analysis

ETM 510: Control Systems Management

ETM 507: Nanotechnology Principles and Applications

ETM 670: Master's Thesis or Project (3 or 6 credits)

TRACK TWO: ENGINEERING TECHNOLOGY MANAGEMENT: CONSTRUCTION, ARCHITECTURAL

REQUIRED COURSES (24-27 CREDITS)

ETM 501: Engineering Quality Management and Reliability

ETM 502: Project Management

ETM 503: Engineering Analysis

ETM 504: Engineering Technology Management Ethics and Policies

ETM 530: Residential Development Management

ETM 531: Construction Cost Analysis and Advanced Estimating

ETM 532: Legal Aspects of Construction Management

ETM 670: Master's Thesis or Project (3 or 6 credits)

ELECTIVES FOR BOTH TRACKS: (3-6 CREDITS)

ETM 511: Applied Thermal Energy Systems
ETM 610: Sensors and Measurement Systems
ETM 611: Modern Energy Conversion Tech
ETM 612: Robotics, Automation/Cntrl Systems
ETM 613: Emerging Clean Energy Technologies
ETM 614: Advanced Manufacturing Systems
ETM 615: Composite Materials
ETM 622 Telecommunications Systems ETM
ETM 623: Computer Security Systems
ETM 624: Wireless Communications
ETM 626: Funds. of Photovoltaics, Photonics
ETM 632: Decision Making/Risk Management
ETM 635: Construction Management Principles
ETM 680: Special Topics