

## **New M.S. Degrees Online – 10 Online Courses**

### **Electrical Engineering**

Neuro AI Assisted Brain Signal  
Processing and Visualization  
Advanced Machine Learning  
RF Systems  
Microwave Engineering

(2 electives + 2 math + 1 AI + 1 Python)

### **Computer Engineering**

Intelligent Robotics, Vision and  
Controls  
Autonomous Systems and Controls  
Adv. Microprocessor Systems  
Real-time Computing and App.

(2 electives + 2 math + 1 AI + 1 Python)

## **Nuclear Engineering Fundamentals and I&C**

Fundamentals in Nuclear Engineering  
Instrumentation and Controls I & II  
Radiation Detection and Measurement  
Nuclear Reactor Simulators

## **Robotics, Controls and Intelligent Autonomous Systems**

Intelligent Robotics, Vision and Controls  
Autonomous Systems and Controls  
Sensors, Perception and Robotic Manipulation  
Introduction to Robotic Systems  
Computer Vision  
Control Systems I and II  
Machine Learning

## **AI Infusion in Engineering**

Neural Networks in ML  
Image Processing  
Digital Communications  
Advanced Microprocessor Systems  
Autonomous Systems and Controls  
Computer Vision  
Edge Artificial Intelligence  
Introduction to Applied AI

## **New Freshman Courses**

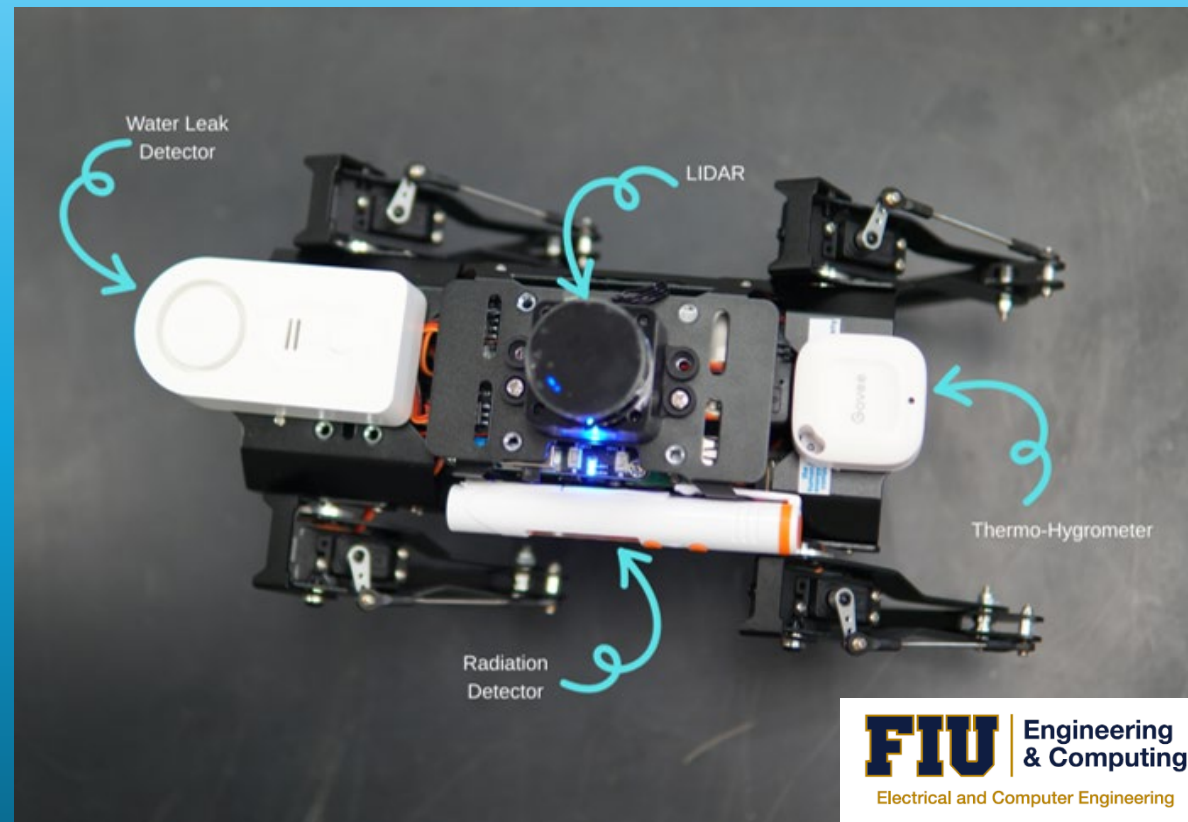
Introduction to Embedded  
Computing  
Edge Artificial Intelligence  
Introduction to Robotic  
Systems, Instrumentation  
& Control

**Register Now for Fall 2025!**

For more information, visit: <https://ece.fiu.edu/> and  
<https://catalog.fiu.edu/> or email: [dhodges@fiu.edu](mailto:dhodges@fiu.edu)

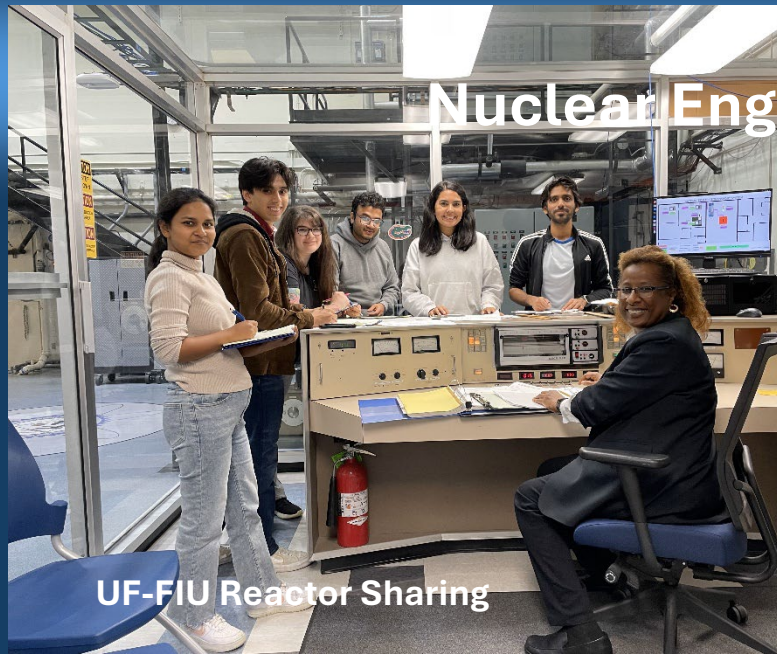


# Robotics, Controls and Intelligent Autonomous Systems





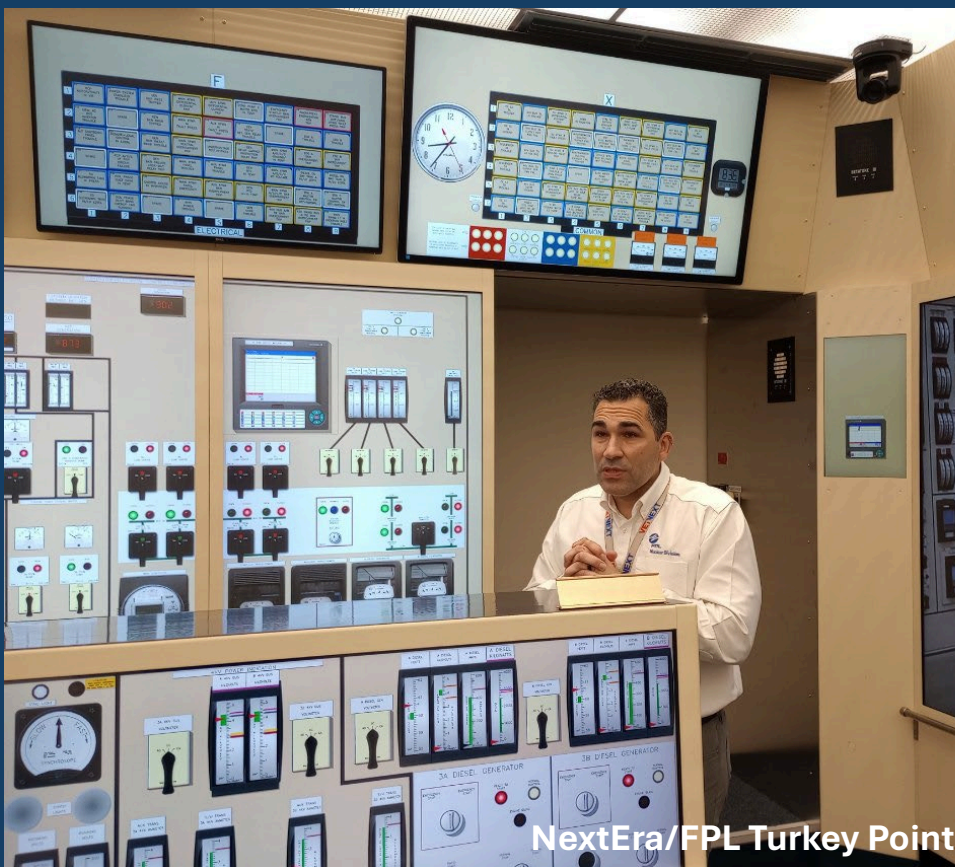
# Nuclear Engineering Fundamentals and I&C



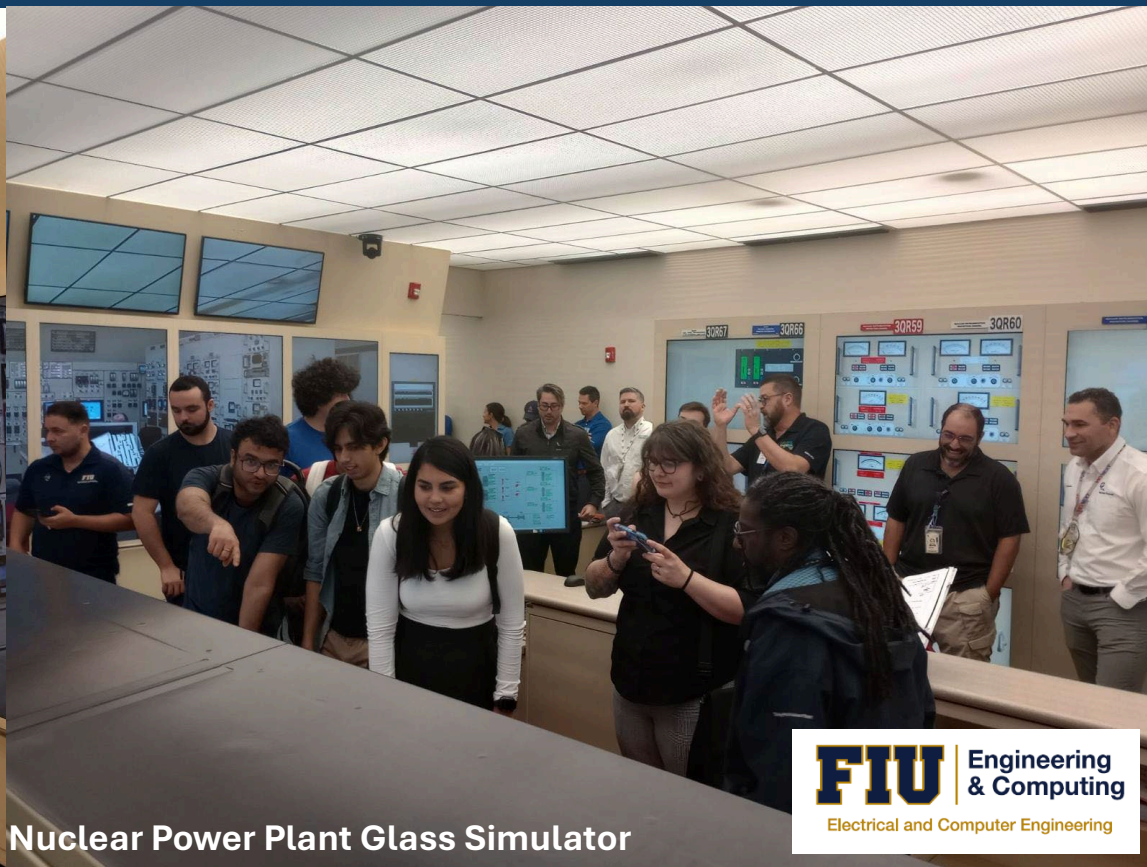
UF-FIU Reactor Sharing



NextEra/FPL Turkey Point Nuclear Power Plant Site Visit and Workshop



NextEra/FPL Turkey Point Nuclear Power Plant Glass Simulator





# New and Enhanced Courses, many with AI Infusion

## Fall 2025

### Graduate

#### Online Courses

EEE 5772*	Intelligent Robotics, Vision, and Controls
EEL 6836*	Neuro AI-Assisted Brain Signal Processing and Visualization
EEL 6439	RF Systems
EEL 5741	Advanced Microprocessor Systems
EEE 5543	Random Signal Processing ( <b>Online Graduate Math Course</b> )
EEL 5437	Microwave Engineering
CNT 6154	Advanced Machine Learning in ECE
CNT 6156	Advanced Python Programming
CAI 5855*	Introduction to Applied AI
CAI 5867	Advanced Data Engineering

### Freshman

#### New Freshman Online and In-Person Courses

EEE1760*	Introduction to Embedded Computing
CAI 1850*	Edge Artificial Intelligence
EEL 1603	Introduction to Robotic Systems, Instrumentation and Control

### Graduate

#### AI Infusion\*

EEL 5741	Advanced Microprocessor System
EEL 5500	Digital Communication Systems I
EEL 5820	Image Processing
EEL 5813	Neural Networks in Machine Learning

# Spring 2026

## Graduate

### Online Courses

EEL 5669	Autonomous Systems and Controls
EEL 6765	Advanced Embedded Systems Design and Implementation for IoT Applications
EEL 5260	Power System Optimization
EEL 6894	Real-time computing and applications
EEL 5171	Advanced Systems Theory ( <b>Online Graduate Math Course</b> )
CNT 6156	Advanced Python Programming

## Graduate

### AI Infusion

EEL 5669	Autonomous Systems and Controls
EEL 6821	Computer Vision
EEL 6812	Advanced Neural Networks for Deep Learning

## Graduate

### Nuclear Engineering Fundamentals, and Instrumentation and Controls

ENU 5006	Fundamentals in Nuclear Engineering
EEL 6485	Advanced Radiation Detection and Measurement