



ROBOTICS

Course Number	EMET 402
Course Name	Robotics
Credit Value (Breakdown of theory and lab credits)	2T+1L
Catalog Course Description	An introduction to the kinematics, dynamics and control of robot manipulators. This course will cover basics of a robot, forward and inverse kinematics, the manipulator Jacobian, force relations, dynamics and control-position and force control. Trajectory generation, actuators, sensors, and applications of robotics. <i>Prerequisites: EET 400/L (3, 2T+1L)</i>
Student Learning Outcomes/Objectives /Competencies of the Course	An introduction to the kinematics, dynamics and control of robot manipulators. This course will cover basics of a robot, forward and inverse kinematics, the manipulator Jacobian, force relations, dynamics and control-position and force control. Trajectory generation, actuators, sensors, and applications of robotics. <i>Prerequisites: EET 400/L (3, 2T+1L)</i>
College-Wide Student Learning Outcomes	1. Critical Thought

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