

CEN 459: Robotics

- Credit Hours (Lectures, Lab, Tutorial): 3 (3 + 0 + 1).
- Prerequisites: CEN 455, MATH 244.

Courses content: Introductory historical development of robotics, robot arm kinematics, inverse kinematics, dynamics and control, trajectory planning, use of software packages, sensors, image acquisition and processing, autonomous mobile robots, control architectures, LEGO Mindstorms and other robotic kits & devices for experimentation applications of mobile robots, Internet and Web Robotics, future trends.