

SEMESTER <i>Eighth</i>	DEPARTMENT <i>Control Engineering</i>	COURSE TITLE <i>Robotic Laboratory.</i>
COURSE CODE <i>EC806</i>	HOURS: 3 UNITS: 1	COURSE SPECIFICATIONS <i>Practical Content</i>

In the Robotic Lab students should work in group to perform specific tasks.

The students must build and program the robot for the intended task, The tasks could include but are not limited to:

1. Getting starting with robot: Intro to the robot kit; building your first robot
Programming your first robot
2. Behaviour control programming
3. Motion programming: Wall following using Servo motors and sensors
4. Wireless manipulation: using Bluetooth and zigbee or other
5. Creating your own robot: Multi-agent robotics

The Robots Lab is based on NI LabVIEW Robotics Starter Kit or BIOLOID robotis

References:

1. www.robotis.com
2. *BIOLOID user's guide*
3. *LabView for LEGO MINDSTORM*

* Recommended Simulation Programs can be either MATLAB or LABVIEW.