Course Description: Modern computer technologies and the applications of sensing technologies and the Internet of Things (IoT) in agriculture and the environment. IoT and embedded devices; history and evolution of IoT, communication, and computing technologies; sensors and actuators; microcontrollers; data communication technology; introduction to data analysis and data visualization; designing web applications; and hands-on IoT-based projects.

Learning Activities: Lecture 2 hour(s), Discussion 1 hour(s), Laboratory 3 hour(s).

Enrollment Restriction(s): Pass One restricted to students in the College of Agricultural & Environmental Sciences.

Grade Mode: Letter.

General Education: Quantitative Literacy (QL); Visual Literacy (VL).