

Course Number

ENS-234-01

Course Description

Humans sense. They use their senses to monitor their surroundings. The basic five human senses are sight, hearing, smell, taste, and touch, and the sensory organs humans use to do these functions are the eyes, ears, nose, tongue, and skin. Humans have had a long history of fascination with building devices that do sensory tasks. These are sensors, and unlike human senses, they are sleepless by design. The use of sensors has recently exploded. Sensor applications have penetrated many fields such as consumer products, healthcare, communications, transportation, industrial processes, sports, security, space, military, and the environment, to name a few. The presence of sensors is all around us in almost everything we use and come across in our daily life. Starting with smart phones, passing through sensor-activated lights in hallways, and ending with remotely sensed images that we receive from satellites orbiting Planet Earth from outer space. Sensors have invaded every aspect of human life and are predicted to be so pervasive in many extraordinary applications that will significantly enhance humans' quality of life. This course is designed for students interested in learning more about sensors and their human applications in adding a level of convenience never thought possible before.

Course Types: SET, GETS

Academic Term

22/SP

Instructor

Ghaly, Ashraf

Location & Meeting Time

Integrated Science & Engineering Complex-387+ T/TH 10:55AM-12:40PM LEC

Credits

1.00

Capacity

24

Total Students

17

Common Curriculum

SET

GETS

Interdisciplinary Programs

Environmental Science & Policy

Academic Department

Environmental Science & Policy

Field Of Study

Env Science, Policy & Engrng (ENS)