

# Open Elective Course

## Electronics and Communication Engineering

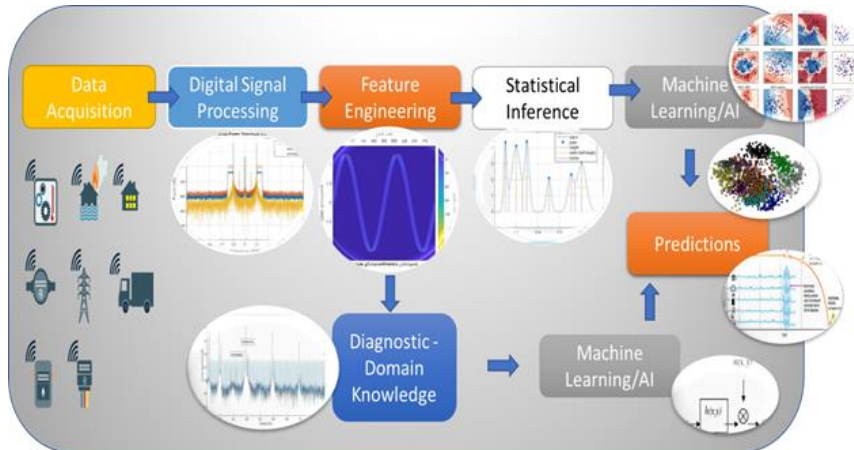
### SENSORS AND SIGNAL CONDITIONING [18CS652]

Many data acquisition applications involve environmental or mechanical measurement from sensors, such as temperature and vibration. These sensors require signal conditioning before a data acquisition device can effectively and accurately measure the signal.

#### 21<sup>ST</sup> CENTURY CHALLENGES

- Depleting Natural Resources
- Increasing Cost of harnessing resources
- Adverse Impact on Health & Environment
- Increasing need for better efficiency, safety and reliability
- Combat Climate Change, reduce carbon footprint
- Surveillance for safety & security
- Better Disaster Management – Minimal loss to life and property

#### WHAT DO YOU LEARN IN THIS COURSE?

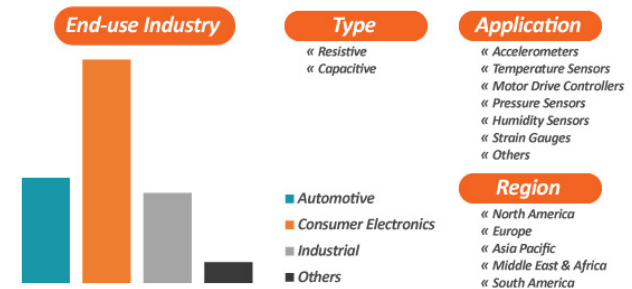


### CAREER OPTIONS

- Any process or manufacturing Industry – R&D/Operations/QA Engineer
- Product Company making such industrial measurement sensor devices
- Companies or projects in many key sectors employing IOT\_solutions
  - Agri Tech
  - Logistics
  - Health Care
  - Industrial Automation
  - Automobiles [IC & EV]
  - Smart Homes & Cities

### Sensor Signal Conditioning (SSC) ICs Market

Segmentation



#### Industries Leaders in Sensors and Signal Conditioning



Contact Us:

Department of Electronics and Communication  
 ecehod@atria.edu