University of Arkansas Little Rock

- IFSC 4399 - The Internet of Things (IoT)

  - Putting the Raspberry Pi on the network, residential version
  - Communication with the RPi using VNC and SSH
  - Introduction to Linux for the Raspberry Pi-history
  - Introduction to Linux for the Raspberry Pi-command line
  - The Linux philosophy, Legos and the RPi
  - Putting the OS on your Raspberry Pi SD card
  - Setup Adafruit IO account for IoT
  - Linux commands in the bash environment
  - Cyber security
  - The pwnagotchi filter? Or Invasion of the pwnagotchi!
  - Backup your RPi data using rsync
  - Secure shell keys
  - Data wrangling
  - Setting up a WiFi hotspot using the RPi
  - Editors, IDEs, scripts, interpreters, and compiled code
• Setup pitunnel for VNC access
• The Linux crontab, scheduling events
• MCP3008 Raspberry Pi Interfacing
• BME680 sensor setup using I2C
• Setting up the 1-wire interface for the RPi
• Digital and analog signals
• Controllable Four Outlet Power Relay
• Grove Analog Resistive Plant Moisture Sensor
• Grove Analog Air Quality Sensor
• LIS3DH Triple-Axis Accelerometer
• Grove connectors
• Hats for the Raspberry Pi
• Grove IR Interrupter Detector
• Grove LED
• Grove AHT20

• Introduction to Control Systems (Iqbal)
  No image available

  1: Mathematical Models of Physical Systems

• IoT remix
  No image available