



LESSON PLAN

Pycom has put together a series of lessons that are delivered in powerpoint format and can be leveraged to teach students how to get up and running with a FiPy or a LoPy4 kit. We call the lesson groups associated with each type of kit a lesson track.

There is currently a total of 8 lessons in each track, as follows:

Lesson 0

Before you get started

Lesson 1

An introduction to LoPy4 / FiPy

Lesson 2

Setting up the Pymakr IDE for LoPy4 / FiPy

Lesson 3

Setting LoPy4 / FiPy up on Pybytes

Lesson 4

Getting Connected with LoRa

Lesson 4.5

Setting up a Chirpstack LoRa Server on Pybytes

Lesson 5

Getting connected with Sigfox

Lesson 6

Getting Connected with cellular



Lessons still to come near term

- Adding a sensors to your kit
- Machine Learning and AI with Sensors
- Pymesh LoRa set up
- Pymesh BLE set up
- Nano gateways setup
- Connecting LoPy4 / FiPy to another device
- Security choices and settings
- Power save Mode and Deep Sleep
- Porting code to other Pycom devices, settings and tricks

Lessons to come in the future

Deep Tech lessons on

- ESP32, WiFi and BLE
- Semtech chips and LoRa and LoRaWAN
- Sequans Monarch NB-IoT and CAT-M1 chip
- Full Stack IoT Security
- "Suggestions from students or community"

Please send suggestions to education@pycom.io.