



# COURSE INFORMATION

This course is organized in **8 lessons**, for a total of **16 hours** (2 hours per lesson), subdivided as follows:

## 1st LESSON:

- I. Introduction to Embedded Linux
- II. Embedded Hardware for Linux Systems
- *Intermediate Learning Test*

## 2nd LESSON:

- III. Embedded Linux Systems Architecture
- IV. Embedded Linux Development Environment
- *Intermediate Learning Test*

## 3th LESSON:

- V. Cross-compiling Toolchains
- VI. Bootloaders
- *Intermediate Learning Test*

## 4th LESSON:

- VII. Linux Kernel (Part A)
- VIII. Linux Kernel (Part B)
- *Intermediate Learning Test*

## 5th LESSON:

- IX. Compiling and installing kernel for host
- X. Cross-compiling the kernels
- *Intermediate Learning Test*

## 6th LESSON:

- XI. Using Kernel Modules
- XII. Raspberry Pi Kernel Cross-compilation
- *Intermediate Learning Test*

## 7th LESSON:

- XIII. Real-time in Embedded Linux Systems (Part A)
- XIV. Real-time in Embedded Linux Systems (Part B)
- *Intermediate Learning Test*

## 8th LESSON:

- XV. Recap of the Course Topics
- *Final Learning Test*

