



STEM Lesson n°2

« Explore the Various Control Mode »

v1.0.0

PDF Tricks

(To make sure the PDF file that opens in your browser shows the most up-to-date version,
add a version query (`?v=2`) to the URL, like this:

`https://almtzr.github.io/PedroSTEM/stem_lessons//Pedro_Lesson_X.pdf?v=2`)

Learning Objective

In this lesson, students will explore different control modes in robotics through the multiple communication systems integrated into the Pedro robot. It is strongly recommended to complete **Lesson n°1 « Discover Robotics by Building Pedro »** before starting this activity. This lesson introduces students to various **robotic communication methods** using Pedro's control modes, including:

- **Manual Mode**
- **Record & Replay Mode**
- **Radio Mode**
- **USB Serial Mode**
- **Bluetooth Mode**



Instructor Notes

- Recommended age: **12 years and older**
- Ideal for **STEM clubs, classroom workshops, or science projects**
- Students should have **basic computer literacy**
- Duration: **~2 hours**



Required Materials

Item	Quantity	Description
Pedro Robot Full Assembled	20 units	Two robots by student



Final Activity

At the end of the workshop:

- Students complete a **30-question quiz** to review key concepts.
- Teachers can discuss real-world applications of robotics and 3D printing.

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Work in progress...

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