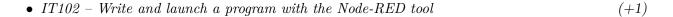


IT301μ From IoT Devices to the Cloud with the IBM Node-RED Tool

Project 1: Node-RED and Arduino

This assessment evaluates the following competencies:



You may also be assessed on the following competencies:

• IT301 – Design a dashboard showing the value of a hardware sensor	(+1)
• IT501 – Debug and test a Node-RED program	(+1)
• WP501 – Define, launch and test an HTTP API server	(+1)
• WP502 – Test an HTTP API server with Postman	(+1)
• IT121 – Define JavaScript functions blocks to transform data	(+1)

In this project assessment, you have to write an application that connects to an Arduino, in both ways, with a computer on which Node-RED is running. The Arduino must communicate some information to the Node-RED application, and conversely, using a serial communication. To succeed the assessment, you have to:

- 1. Write and test your application on your computer.
- 2. Build your application in front of your teacher and prepare a short demonstration.
- 3. Explain to the teacher the structure of your code and answer his/her questions about how your program is working.