



“Cloud Computing in the European schools”

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Erasmus+ Programme
of the European Union



“Reference on PAAS activity”

Using Thingspeak platform.

Temperature Humidity logger.



Index

Disclaimer	3
Objective	4
Implementation into the Curriculum	4
Work methodology - Result	4
Documentation and Lesson Procedure	4
Mark	5



Disclaimer



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Objective

The use of the cloud platform Thingspeak with internet of things (IOT) computing.

By completing activity the student will be able to:

- Make an account on Thingspeak and create a channel for an IOT application use.
- Implementate things speaks code in an arduino code for the IOT needs
- Connect hardware for real condition use.

Implementation into the Curriculum

This activity can mix curriculums of the lessons:

- Robotics on Electronic & Electrical Engineering Department,
- Special lesson for IT Department.

Activities to be discussed

- Hardware implementation
 - DHT 11 Sensor
 - ESP8266
- Electronic Design.
- Arduino IDE Programming.
- ThingsSpeak.

Work methodology - Result

Individual and Collaborative.

The final result will be a microcontroller on line connected with cloud that will send data to the cloud.

Documentation and Lesson Procedure

- Lab environment
- Each student will fill a Questionnaire about:
 - arduino uno
 - Sensor (DHT11)
 - IOT (esp8266)



- Thingspeak cloud platform
- Lesson duration: 4 teaching hours

- Students who have been selected for mobility must submit content in the website of the Erasmus+ Project.

Mark

This activity is part of the Erasmus + project "Cloud Computing in the European schools". All students must complete it. The grade of each presentation will be taken into account in the final grade of each student.