



Lesson Plan for a Microcontroller Selection

Topic: Introduction to Microcontrollers

Subject: Microcontrollers

Target Group:

Students aged between 15 and 18

This lesson is more adequate for students studying subjects related with computer science or IT.

Objectives:

Obj1. To understand what a microcontroller is

Obj2. To do critical thinking for a problem presented in real world cases

Obj3. To be able to select what type of microcontroller is needed for the problem

Approach/Methodology used:

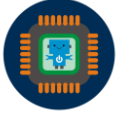
Research, Presentation, Gallery walk

Means/Tools/Educational technology

Computers, Projector, Internet, and Technical books

Plan for work

Time	Activities	Methods/ means
20 minutes	An explanation of what a Microcontroller is. What its designed as. Explanation of the different types of microcontrollers, and why these exist. Why each one is more appropriate for a certain case scenario	Presentation
15 minutes	Separate students into groups and hang multiple banners with different case uses of microcontrollers. Students are then encouraged to select what the best one to use for each one via post it notes.	Research & Gallery Walks
10 minutes	Review the Gallery walk and see what the totals are. Discuss with the classroom about the choices made	Group discussion



ROBOSTEM Project

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**Feedback:**

This lesson plan is more to engage the students into critical thinking about the usage of microcontrollers into real world scenarios.

Bibliography:

See IO1 “Understanding Microcontrollers”