

ROBOSTEM Project



Agreement no: 2019-1-RO01-KA202-063965

Lesson Plan 'Do it yourself' - application of microcontrollers

Topic/Subject:

Topic 'Do it yourself' - application of microcontrollers

Subject Computer science, Electrical Fundamentals, Microcontrollers

Target Group:

Students from 1st to 4th grade, aged between 15 - 18.

Students are of different technical occupations:

- mechatronics,
- CNC operators,
- mechanical technicians and
- mechanical computer technicians.

Objectives:

- Obj1. Encourage the application of new technologies in practical work environments.
- Obj2. Boosting the development of STEM skills
- Obj3. Increasing the students' skills for insertion on the labour market.

Approach/Methodology used:

learning to solve problems, research, simulation, game, project learning, creative work, change the place of learning



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Means/Tools/Educational technology

Computers, the Internet, technical books, mobile phones, applications, IDE Arduino, Arduino uno, electrical components: LED lights, seven-segment digital display, electric motors, thermal sensors ...soldering iron, acid

Plan for work

Time	Activities	Methods/ means

Assessment/Feedback:

The assessment was ultimately the design and presentation of their device.

Bibliography:

https://croatianmakers.hr/hr/stvaralastvo/

https://www.arduino.cc/

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