



UČINKOVITA RABA SODOBNE IKT-OPREME PRI IZBIRNEM POUKU ROBOTIKA V TEHNIKI

EFFECTIVE IMPLEMENTATION OF ICT IN TEACHING ROBOTICS IN PRIMARY SCHOOL

Tomaž Kušar

Osnovna šola Mokronog

Gubčeva cesta 4, 8230 Mokronog

tomaz.kusar@guest.arnes.si

Povzetek

Izvajanje izbirnega predmeta Robotika v tehniki je za marsikaterega učitelja velika »uganka«. Naštejemo lahko celo vrsto dejavnikov, ki imajo pomembno vlogo pri zagotavljanju kakovostnega in učinkovitega pouka. To so na primer strojna in programska oprema, število učencev v skupini, način poučevanja ter domiselnost in kreativnost učitelja in podobno. Pomembni so predvsem tisti dejavniki, na katere lahko neposredno vplivamo. Poleg teh dejavnikov način dela pogosto zahteva individualni pristop, kar posledično pomeni za učitelja veliko vloženeга truda in časa.

Uporaba IKT-sredstev nam je v takšnih primerih lahko v veliko pomoč. Še posebej se pokaže moč videovsebin v kombinaciji s spletno učilnico. Slednja je predvsem uporabna in nepogrešljiva pri usvajanju nepoznanih ali celo abstraktnih vsebin. Vsa ta sredstva pa nam navsezadnje omogočajo tudi kvalitetno izvajanje diferenciacije, celo individualizacije, s katero se soočamo tudi pri izbirnih predmetih, kot je na primer Robotika v tehniki.

Kljub veliki popularizaciji IKT-sredstev pa se nam v konkretnih okoliščinah še vedno zastavi vprašanje, na kakšen način uporabiti ta sredstva? Kako in v kolikšni meri jih vključiti v pouk? Kaj želim z uporabo teh sredstev izboljšati?

V tem članku bom navedel le nekaj zgledov, kako lahko obogatimo vsebino pouka s pomočjo IKT-sredstev oziroma kako le-ti lahko postanejo nepogrešljivi člen učne ure.

Abstract

Teaching Robotics in a primary school is often a challenging task for the teacher. There are several different factors that play an important role in providing quality and effective lessons, such as hardware and software, the



number of students in a group, the method of teaching, and the teacher's inventiveness and creativeness. The main stress is on the factors that can be directly influenced by the teacher. However, it is not only these factors that demand a lot of effort and time from the teacher, it is also the individual approach to teaching that can be challenging for them.

The use of ICT can be of great help to the teacher in such situations. A combination of video clips and eClassroom has proven very successful. eClassroom can be very useful and effective when presenting new and abstract topics. All of the aforementioned means also enable teachers to successfully implement the process of differentiation and individualization into their lessons.

Despite the fact that ICT is widely used in schools nowadays, a lot of teachers still encounter problems when dealing with it. They are unsure about the different ways of using it, the amount of lesson time that should be dedicated to the use of ICT, and nevertheless the objectives that are to be met by implementing ICT into classrooms.

This article provides some examples as to how lessons can be improved with the use of ICT and how it can become an integral part of every lesson.