

FITOREMEDIJACIJA: ESTETSKO I EKOLOŠKO REŠENJE

Emilija Gnjatović¹; Mirjana Antonijević Nikolić, PhD¹

¹Visoka medicinska i poslovno-tehnološka škola strukovnih studija, Šabac, Republika Srbija,
emilija.gnjatovic@gmail.com

***Abstract:** Phytoremediation is a cost-effective, plant-based approach to remediation that takes advantage of the ability of plants to concentrate elements and compounds from the environment and to metabolize various molecules in their tissues. It refers to the natural ability of certain plants to bioaccumulate, degrade, or render harmless contaminants in soils, water, or air. Toxic heavy metals and organic pollutants are the major targets for phytoremediation. There are different subsets of phytoremediation, among which the most effectively used ones are phytofiltration, phytoextraction, phytostabilization and phytovolatilization. Phytoremediation is a process of remediation which has minimal negative effects on environment, and is of a certain aesthetic value as a special type of technology. Regarding the economic aspect, this method is very profitable for a large surfaces of polluted soil if concentration of pollutants is low. While the technology is not new, current trends suggest its popularity is growing.*

***Keywords:** phytoremediation, environmental pollution, heavy metals, organic pollutants, cost effective*