

## Proposal of PRS Assignments\_20

a, PPT file / presentation - app. 20 - 30 min

b, Text file - approximately 6 - 15 pages

- my suggestion is that you try to prepare a draft of your review paper potentially to submit for publication / usable in solving your diploma theses

### Brief outline

**Abstract / Summary**

**Introduction**

**Theoretical**

- *specification / characterization of process /processes*
- *advantages / drawbacks*

**Applications**

- *characterization of pollutant types*
- *degradation / transformation / combined processes*
- *in situ / ex situ*

**Experimental / practice**

- *reactors / technology / design*

**Conclusions**

**Supporting materials**

**In accordance with your chosen / chosen topics, I will send you, via "uschovna.cz" ZIP files with 30 current published articles in the given areas.**

### Proposal of topics

1, Nanoparticles

- 2, Iron nanoparticles
- 3, Phytoremediation of PCB
- 4, Bioaugmentation
- 5, Permeable Reactive Barrier Technologies for Contaminant Remediation - Tornike
- 6, Bioremediation & Biodegradation. Wastewater Treatment by Combination of Advanced Oxidation Processes and Conventional Biological Systems - Ali
- 7, Advances in Groundwater Treatment to remove MTBE
- 8, Applications of air stripping
- 9, Degradation of estrone in water and wastewater by various advanced oxidation processes
- 10, Application of ozone based treatments of secondary effluents - Tamana
- 11, Edible oil barriers for treatment of chlorinated solvent and perchlorate-contaminated groundwater

Supporting materials

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