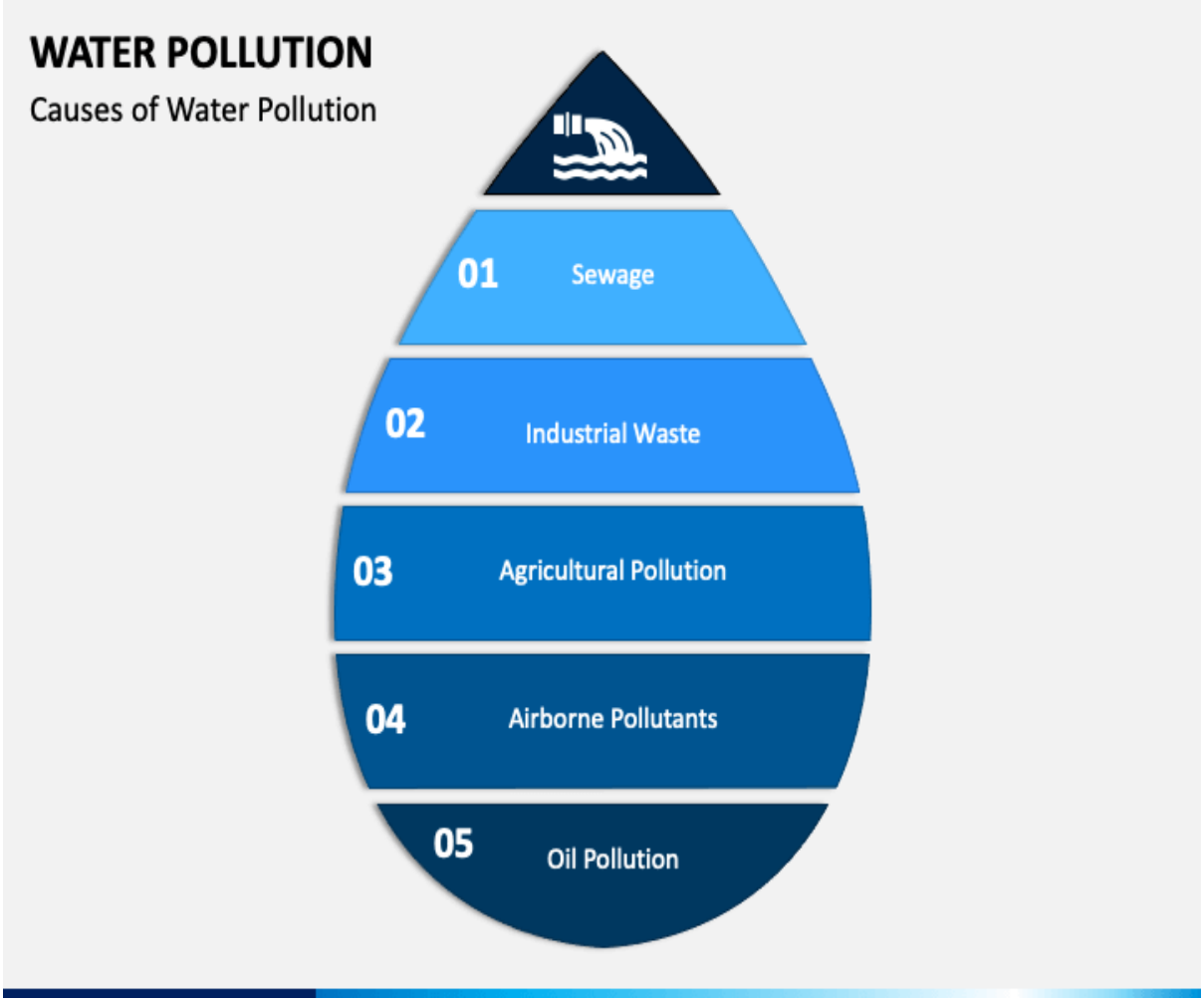
தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (தன்னாட்சி)
Thanthai Periyar Government Arts and Science College (Autonomous)
Tiruchirappalli - 620 023, Tamilnadu, India.

WATER ANALYSIS

Water chemistry analyses are carried out to identify and quantify the chemical components and properties of water samples. The type and sensitivity of the analysis depends on the purpose of the analysis and the anticipated use of the water. Chemical water analysis is carried out on water used in industrial processes, on waste-water stream, on rivers and stream, on rainfall and on the sea. In all cases the results of the analysis provides information that can be used to make decisions or to provide re-assurance that conditions are as expected. The analytical parameters selected are chosen to be appropriate for the decision making process or to establish acceptable normality. Water chemistry analysis is often the groundwork of studies of water quality, pollution, hydrology and geothermal waters.

Water Sampling:

The process of taking a portion of water for analysis or other testing, e.g. drinking water to check that it complies with relevant water quality standards, or river water to check for pollutants, or bathing water to check that it is safe for bathing, or intrusive water in a building to identify its source



So to avoid such pollution occurs in water water analysis is carried out in the college .It is important to establish a regulatory framework for treatment of wastewater from residential communities, institutions and industries

Selective planting of trees and vegetation can help stabilise soil and prevent erosion.

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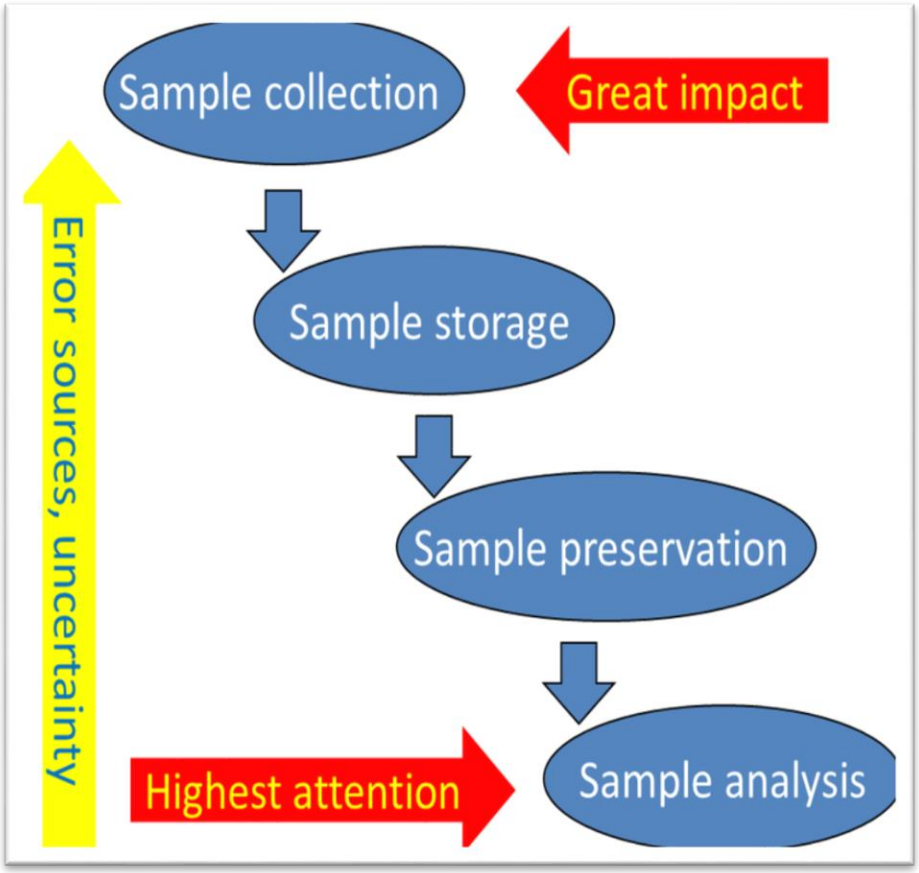

- Thus water analysis helps to identify the presence of total dissolved solids, dissolved oxygen and other parameters in water.
- This activity is being organised by Department of Chemistry. Students are encouraged to utilise the facilities to know the quality of water samples brought selectively from various villages/towns.
- Students were given demonstration to use the instrument for analysing water
- Students analysed water sample from one area using the kit and they had a hands on training program
- Students also visited library and used internet for the optimum levels of these parameters and drew conclusions on the quality of water in college campus.

- Students enthusiastically participated in the entire analysis process indicating that they were truly inspired by the objectives of the process
- Students developed the concept of cooperative learning i.e. learning from one another among themselves

- Students reported the analysis results accurately by performing analysis on their own
- Students enlightened the other students regarding the quality of water they are consuming and plausible ill effects