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(57) Abstract :
The invention discloses a method for estimation of water quality index of urban water bodies. The method comprises of collecting water samples from an urban water body; determining physico-chemical parameters to estimate water quality from the water samples; measuring the physico-chemical parameters for water quality assessment; measuring quality ranking or sub index (qn) of the physico-chemical parameters; and calculating Water Quality Index by weighted arithmetic index method. The physico-chemical parameters are pH, Electrical conductivity, Hardness, Dissolved oxygen, Biological Oxygen Demand, Total Dissolved Solids, Total Alkalinity, Nitrite, Sulphate, Chlorides, Calcium, and Magnesium of the water samples. The calculating Water Quality Index by weighted arithmetic index method is by aggregating the quality ranking of the physico-chemical parameters. The urban water body's water quality index was determined for all seasons i.e. rainy season, winter season and summer season. It can be assessed if the water is safe for drinking and other purposes.

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