

## IDEATION

1. Special causes of errors are also possible in designing of system like errors in calculations, tool wear, operator error, resetting of machines, and errors in measurements.
2. Natural variability such as changes in temperature, humidity fluctuations, electrical fluctuations, natural resource variations, and deterioration of equipment performance. The natural variability is the cumulative effect unavoidable chance causes of variation are also measured.
3. Current water quality monitoring system is a manual system with a monotonous process and is very time-consuming. This paper proposes a sensor-based water quality monitoring system. The main components of Wireless Sensor Network (WSN) include a Microcontroller for processing the system, communication system for inter and intra node communication and several sensors. Real-time data access can be done by using remote monitoring and Internet of Things (IoT) technology.