



# SRINIVAS UNIVERSITY

**Mangalore-575001, Karnataka (India)**

## **Srinivas Research Centre for Hydraulic and Water Resource Engineering**



**Mrs. Amulya.G.V**

### **About the Research Centre**

Water resources engineering is the quantitative study of the hydrologic cycle – the distribution and circulation of water linking the earth's atmosphere, land and oceans. Surface runoff is measured as the difference between precipitation and abstractions, such as infiltration, surface storage and evaporation. Applications include the management of urban water supply, the design of urban storm sewer system and flood forecasting.

Hydraulic engineering consists of the application of fluid mechanics to water flowing in an isolated environment (pipe, pump) or in an open channel (river, lake and ocean). Civil engineers are primarily concerned with open channel flow, which is governed by the interdependent interaction between the water and the channel.

Applications include the design of hydraulic structures such as sewage conduits, dams and breakwaters, the management of water ways such as erosion protection and flood protection, and environmental management, such as prediction of the mixing and transport

of pollutants in surface water. Hydroelectric power development, water supply, irrigation and navigation are some familiar applications of water resources engineering involving the utilization of water for beneficial purposes. More recently concern for preserving our natural environment and meeting the needs of developing countries has increased the importance of water resources engineering.

This research centre basically deals with:

- Problems in the fields of hydrology
- Fluid mechanics
- Rainfall – Runoff Modelling
- Numerical Analysis
- GIS / Remote sensing applications

**Team members:**

1. Mrs. Umadevi.C.V
2. Mr. Yogesh.G
3. Mrs. Shilpa.S

**Journals Published:**

1. Published Paper in International Journal of Research Scientific Research (IJRSR) titled “ GIS –Based Morphometric Analysis Of Sub-Watershed Of Gurupura River ,DK ”. Volume 9, Issue 06, PP 27545-27549, June 2018.
2. Presented and published paper in National conference titled “Quantitative Morphometric Analysis for a river catchment” held at AIT, Chikkamagaluru.



