PMRF-ISSS Teaching Programme

Prime Minister Research Fellowship students' teaching requirement facilitated by the Institute of Smart Structures and Systems

Module PMRF-ISSS66/2023

Hydrological Modelling with R

Name of the PMRF student

Kanneganti Bhargav Kumar

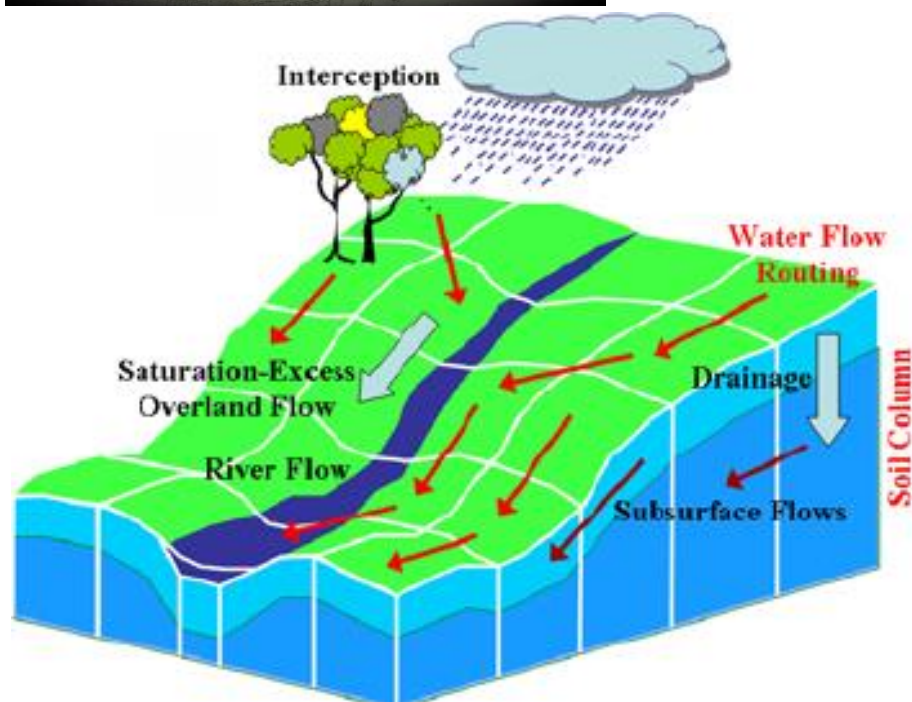**Required background of the students taught**

B.Tech: Civil Engineering

M.Tech/Ph.D: Hydrology /Water Resources/other similar disciplines (Require Basic Knowledge on Hydrology)

Online session Coordinator

Will be chosen from the list of registrants

Details of the content of the module

1. **Introduction To R Programming**

   I) Installation

   ii) Data Types

   iii) Basic Functions

   iv) Data Collection using R functions

   V) Data Pre-processing (QA)

2) **Hydrologic Modelling With R**

   I) Introduction to Hydrologic Modelling Packages in R

   ii) Calibration and Validation

   iii) Modelling Analysis With Topmodel

   iv) Interactive Plotting of Model Results with hydroTSM tool

The Course Will Focus on Application-oriented R Learning and Step-by-Step Coding Procedure.

Schedule of the module

Start Date: 25 Nov 2023

End Date: 3 December 2023

Class Timings: Saturday and Sunday (10:00-13:00 and 14:30-17:30)

Meeting link : Will be shared later

Contact email ID: isss.forum@gmail.com

Registration link: Hydrological Modelling with R