Indo-US Online Workshop on Modelling and Management of Hydrologic Extremes  
(As part of SPARC Research Project: Real Time Forecasting of Floods Using SWAT Model)  
09-14 April 2021

Sponsored by:  
Scheme for Promotion of Academic and  
Research Collaboration (SPARC), MoE, GOI

Organized by:  
Department of Civil Engineering,  
NIT Warangal, India

Collaboration with:  
Virginia Tech,  
Blacksburg, USA

Preamble:  
Scheme for Promotion of Academic and Research Collaboration (SPARC) is a Ministry of Education, 
erstwhile MHRD, GOI initiative to improve research ecosystem in India. It supports national premier 
educational institutions by facilitating academic and research collaborations between Indian institutions 
and the best and selected institutions across the world’s 28 nations. The collaborative educational 
networks will work on common issue of national or international relevance. It encourages international 
faculty, Indian institution visits and long-term stays to teach courses and conduct workshops for the benefit of 
Indian researchers and students in the selected research area. Also, it funds Indian students to visit 
and access the premier laboratories worldwide for training and experimentation. As an outcome patents, 
monographs, and world-class publications will be produced.

About NIT Warangal and Department:  
NIT Warangal, formerly known as Regional Engineering College was established in 1959. Over the years it has 
developed into a premier institute of higher learning and is ranked among the top technical education 
institutions in India. There are 14 Departments offering eight undergraduate and 32 post-graduate programmes besides doctoral programmes. About 5000 students across the country and about 500 
international students’ study on the campus. The Department of Civil Engineering was established 
as one of the major departments of NITW, in the year 1959. It offers B.Tech in Civil Engineering, M.Tech programs in seven specializations. The Department has strong Industry Interaction and is involved in various Research & Consultancy projects in coordination with industry, Governments of India, Telangana & Andhra Pradesh

Course Outline:  
The following major topics will be covered in this workshop on Modelling and Management of Hydrologic Extremes:

• Hydrologic Extremes and Climate Drivers

• River basin/Watershed management responses to Global change and anthropogenic impacts

• Climate Change impacts, risks and adaptation

• Case studies in Handling of Hydrologic extremes

Course Level:  
Postgraduate, Ph.D. scholars and Faculty of Civil Engineering and allied branches.

Course Instructor:  
Prof. Venkataramana Sridhar  
Associate Professor & Co-PI, SPARC Project (P270)  
Biological System Engineering, Virginia Tech,  
Blacksburg, USA

Eligibility:  
The programme is open to the Faculty and Ph.D scholars/PG students of Civil Engineering and allied disciplines. Industry personnel working in the concerned/allied discipline can also attend. Minimum 75% attendance is mandatory for getting the participation E-Certificate of the event.

Registration Fee:  
There is no registration fee, interested candidates can register (on or before 8th April, 2021) using the Google link form:  
https://forms.gle/K8BKpSY9bC16QWl37

Selection Criteria:  
Selection will be done based on first-cum-first-serve basis and the confirmed candidates will be notified by email upon receipt of the registration. The maximum number of participants will be 100 (Hundred).

Coordinators:  
Dr. K. Venkata Reddy, Associate Professor, PI  
Prof. N. V. Umamahesh, Professor, Co-PI  
Prof. Deva Pratap, Professor, Co-PI

Address for correspondence:  
Dr. K. Venkata Reddy  
Associate Professor  
Dept. of Civil Engineering  
National Institute of Technology Warangal,  
WARANGAL - 506 004, Telangana State, India.  
Mobile: +91-8332969245  
Email: kvreddy@nitw.ac.in