

# QIP Short Term Course on Recent Advances in Hydrological Applications (RAHA-2018)

28<sup>th</sup> May – 9<sup>th</sup> June, 2018



## Coordinators

Dr. Anil Kumar Kar  
Associate Professor

Dr. P. C. Swain  
Professor

Veer Surendra Sai University of Technology  
Department of Civil Engineering  
Siddhi Vihar, Burla, Sambalpur  
Odisha -768018  
[www.vssut.ac.in](http://www.vssut.ac.in)

## Eligibility

The course is open for all teachers of degree level technical/engineering colleges/institutions approved by AICTE. No course fee is charged for participants sponsored by AICTE approved institutions. However, caution money deposit of Rs.1000/- has to be deposited by the selected participants, which will be returned at the end of the course. The payment is to be made through DD, drawn on any Nationalized Bank and in favor of **AICTE QIP STC** on “RAHA”, payable at Burla.

## Financial Assistance

Limited number of participants from the AICTE recognized institutions will be eligible upto III AC to and fro railway fares (via shortest route from the place of work). Only the candidates attending the full course will be eligible for TA and DA.

## Venue

The course will be arranged in the Seminar Hall of Civil Engineering Dept. of VSSUT, Burla.

## Boarding and Lodging

Boarding and lodging facilities will be provided for the limited candidates from AICTE approved institutions in the institute guest house based on availability. However, lodging facility in students hostel can be arranged for others subject to availability.

## Important Dates

The last date for receipt of duly filled applications is **15<sup>th</sup> May, 2018**. Intimation of selection of candidature will be communicated through e-mail by **20<sup>th</sup> May, 2018**.

**Note:** Interested candidates may send an advance copy of the completed application by fax/email to avoid procedural/postal delay.

## Sponsorship

### For applicants from AICTE approved institutions

Prof./                      Dr./                      Mr./                      Ms.  
\_\_\_\_\_ is an  
employee of our institute and his/her application  
is hereby sponsored. The applicant will be  
permitted to attend the short-term course  
“Recent Advances in Hydrological  
Applications (RAHA)” at VSSUT, Burla to be  
held from 28<sup>th</sup> May - 9<sup>th</sup> June 2018, if selected.

Date:    Signature of sponsoring authority

Office Seal:    Designation

The duly completed application should be sent to:

**Dr. Anil Kumar Kar / Dr. P.C. Swain**

Coordinator, QIP STC on “RAHA”  
Department of Civil Engineering  
Veer Surendra Sai University of Technology Odisha,  
P.O:- Engineering College, Burla, Sambalpur-768018,  
Odisha, India  
Mob. 9437177792 / 7978232567, Fax:-0663-2430204  
E-mail: [anilkarhy@gmail.com](mailto:anilkarhy@gmail.com)

## About the Department

Veer Surendra Sai University of Technology(VSSUT), Odisha formerly known as University College of Engineering, (UCE) Burla was upgraded to a Unitary State University which came into force from 1st day of July 2009 by Odisha Act 9 of 2009. VSSUT is located near the famous Hirakud Dam, the longest dam in Asia. Burla is known as Intellectual Capital of Odisha (Vidya Nagari) with VSSUT, Veer Surendra Sai Institute of Medical Sciences and Research (VIMSAR), Sambalpur University, MCL, WESCO, IIM Sambalpur, Hirakud Dam circle, etc. It is located 12 km away from Sambalpur railway station and 3 km away from Hirakud railway station. VSSUT, Odisha has carved a niche for itself among the best technical institutes in India and is a dream institute for many budding engineers. The University offers B.Tech., M.Tech., Dual Degree, M.Sc, MCA and PhDs courses. The University is surrounded by a large number of Government, public and private industrial sector organisations such as OHPC, Hindalco, NALCO, NTPC, OPTCL, Vedanta Aluminium Ltd, Bhusan Steel Plant, etc. The institute has an excellent placement record with a number of top ranking companies visiting the campus every year. The climate in May is hot with occasional wind storms.



Civil Engineering (CE) has emerged as an independent discipline catering to the global need. Thus, the department was started in the year 1956 to promote academic excellence in the field of Civil Engineering.

## Expert Lectures

The lectures will be delivered by the faculty members of VSSUT, Burla and eminent speakers invited from IITs, NITs and other premier institutions of India.

## Objectives

The course is designed for faculty members, postgraduate-level students and researchers in Water Resources Engineering. The prime objective of the course is to provide basic knowledge and hands on experience on applications of hydrology with modern a touch.

- Hydrologic cycle, constituents, significance, analysis
- Missing data management
- Projection of rainfall data (event based) for preparing graphs like DAD, IDF etc.
- Discharge Measurement - Present and new Scenario
- Rating Curves - Preparation and Significance
- Reservoir Analysis: Inflow assessment, Demand, Capacity fixation, Sediment load assessment
- Climate Change: Effects on Water Resources, GCM and RCM
- Water Disputes
- GIS and RS applications in Water Resources Engg.
- Hands on training on hydrological analysis, GIS and computer programming
- Sharing the experience of management of critical hydrological events by experts from field..
- Soft computing approaches and their applications
- Rainfall-Runoff modelling, Flood forecasting, Reservoir Operation.
- Case Studies

## Course Materials

The course materials, based on the lectures delivered by the eminent speakers shall be supplied to the participants.

**Veer Surendra Sai University of Technology,  
Odisha**

**Siddhi Vihar, Burla-768018**

**QIP Short Term Course on**

**RAHA-2017**

**28<sup>th</sup> May – 9<sup>th</sup> June, 2018**

### Application Form

**1. Name (Block letters):**

**2. Designation:**

**3. Organization (with detailed address):**

**4. Date of Birth:**

**5. Address for communication:**

Pin Code:

Mobile:

E-mail:

**6. Academic Qualification (Please tick mark)**

(a) B.Tech.    (b) M.Tech.    (c) Ph.D.

**7. Specialization:**

**8. Experience (in years):**

(a) Teaching  (b) Industrial  (c) Research

**9. Amount of TA requirement as per entitlement mentioned in the brochure (only for AICTE approved colleges) Rs.:**

Please register for the course entitled “**Recent Advances in Hydrological Applications**” to be held at VSSUT, Burla during 28<sup>th</sup> May - 9<sup>th</sup> June, 2018.

Place:

Date:

**Signature of the applicant**