

### **ABOUT THE SKILL DEVELOPMENT PROGRAMME**

The skill development programme is to provide hands on experience with open-source hydrologic modeling tools using SWAT . Skill development programme is designed to introduce new users to the SWAT model, review necessary and optional inputs, and familiarize the user with the QGIS interfaces.

### **WHO SHOULD ATTEND?**

Graduate students, Research scholars, Post-docs, JRFs, SRF's Project associates, Faculty, Employees of government and R&D institutions, People from private and NGO organizations, who are working (or, worked) in water resources and its related areas are invited

### **REGISTRATION**

The SWAT modeling skill development programme is offered to a limited no of participant's i.e. 25 on first come first served basis. Selected participants will be paid TA to the limit of sleeper class train fare by the shortest route from the place of work to Hyderabad and back.

### **REGISTRATION FEE:**

Students and Research Scholars: 300/-  
Faculty and Employees: 500 /-

### **ACCOMMODATION:**

*Accommodation will be provided in the campus guest house for outstation participants and working lunch will be provided at the course venue/university dining hall.*

### **VENUE:**

*Seminar Hall, Ground floor,  
Institute of Science and Technology,  
JNTUH, HYDERABAD,  
Kukatpally, Hyderabad-500085*

### **SWAT FACULTY:**

**Dr. Balaji Narasimhan**, Associate. Prof., IIT, Madras

**Dr. Sudheer K.P**, Prof., IIT, Madras

**Dr. D. Nagesh Kumar** Prof., IISC Bangalore

### **SKILL DEVELOPMENT PROGRAMME TOPICS**

The following topics may be covered by subject experts during the programme.

- Hydrologic modeling
- QSWAT
- Watershed and HRU delineation
- Weather and management inputs
- Visualization
- Calibration and validation
- Sensitivity and Uncertainty analysis
- Interpretation of SWAT outputs
- Applications of SWAT
- Case Studies

### **MAILING ADDRESS:**

All correspondence should be addressed to:

**Dr. M.V.S.S. Giridhar**

Coordinator & Head

Centre for Water Resources,

Institute of Science and Technology (IST),  
Jawaharlal Nehru Technological University  
Hyderabad, Kukatpally, Hyderabad - 500 085

Mobile: 09440590695

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## ***NATIONAL LEVEL 3 - DAY SKILL DEVELOPMENT PROGRAMME ON SOIL & WATER ASSESSMENT TOOL (SWAT) MODELING***

Scheduled During 06<sup>th</sup> –08<sup>th</sup> July 2015

Sponsored by



**TEQIP-II**

**JNTUH Institute of Science and Technology (IST)**

**Dr.M.V.S.S.Giridhar**

**Coordinator & Head**

**Centre for Water Resources**

**Institute of Science and Technology (IST)**

**JNT University Hyderabad**

**Kukatpally, Hyderabad -500085**

**Organized by**



**Centre for Water Resources**

**Institute of Science and Technology**

**JNT University Hyderabad**

**Hyderabad – 500 085.**

### **ABOUT JNTUH, HYDERABAD**

Situated in the heart of the city at Kukatpally a major landmark- Jawaharlal Nehru Technological University, Hyderabad has an environment of academic excellence with 'A' Grade accreditation by NAAC (National Assessment and Accreditation Council). Bringing the spark of knowledge to young minds and instilling a new confidence and vigor to face the world, it is providing quality education for nearly 4 decades. The territorial jurisdiction of the university covers the areas of Hyderabad, Rangareddy, Medak, Nizamabad, Adilabad, Karimnagar, Warangal, Khammam, Nalgonda and Mahboobnagar districts of Telangana State. This university has been deemed an autonomous one after Act No 30 of the approval of the Andhra Pradesh State Legislature known as the Jawaharlal Nehru Technological Universities Act, 2008 which came into force on 18th August, 2008. It is a teaching cum research oriented university consisting of the constituent and affiliated colleges. A premier institution with academic and research oriented courses, the B.Tech programs (Undergraduate programs) are about 25. The Post-Graduate programs for about 77 in number namely M.Tech, MSIT, MBA, MCA and MSc. The major branches are Bio-Technology, Chemical Engineering, Civil Engineering, Remote-Sensing & GIS, Electronics & Communication Engineering, Water Resources, Mechanical Engineering, Nano-Technology, Energy Systems, Environmental Studies, Microbiology, Food-Technology and many more like Management, Computer Applications, and Pharmaceutical Sciences etc.

### **ABOUT CENTER FOR WATER RESOURCES (CWR), IST, JNTUH, HYDERABAD**

The Center for Water Resources (CWR) which forms a part of the Institute of Science and Technology, JNTUH Hyderabad was established in the year 1984 with the funding from the ministry of Education and Culture, Government of India to impart training in the management of water resources in an advanced level and to undertake research and development activities in the field of water, land, and environmental management and other related areas. Since then the center has acquired a reputation among user agencies like State and Central Government Departments and other public sector and private organizations as an apex body for imparting training and undertaking field oriented research projects in water and environmental management.

In the past decades the activities of the centre has been greatly diversified and is concentrated on water and environment for sustainable development. Central Public Health Engineering and Environmental Organization (CPHEEO) has recognized this centre as one of the renowned institutes offering P.G. courses in water and environment. Research projects were taken up in many areas of Water Resources and environment at National and International levels. The centre is well known for its technical excellence and infrastructure facilities such as latest version of software and highly sophisticated instruments.

### **ABOUT HYDERABAD**

Hyderabad, a 400 year old city, is the capital of State of Telangana, India. The city presents an Attractive amalgamation of ancient architecture, together with ebullience of growth and enterprise of the modern world. Hyderabad, often called The Gateway of The South, blends the north and south Indian identities. The city of Hyderabad is famous for its minarets and its pearl bazaar. Hyderabad is at an altitude of 536m above Mean Sea Level and is a seat of number of Research and Development Organizations of national and international importance besides being a host for half a dozen Universities. During the course period the Hyderabad will be experiencing winter days with day time temperature around 30° c and night time temperatures will be around 15° c.

### **RAINWATER HARVESTING SETUP AT JNTUH CAMPUS**

- Total 16 recharge structures and three piezometers were constructed in the campus at different places.
- One two lakh liters RWH was constructed for use of the harvested rain water by the Manjeera hostel management
- Total quantity of rainwater recharged through all structures including open ponds is 5, 97, 50,986 liters.
- Total quantity of rainwater harvested and used 13,46,578 liters.
- Presently Six crore liters of rainwater can be harvested with the existing RWS setup in the campus in any normal rainfall year.

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### **REGISTRATION FORM**

(Please mail the filled form to reach us on or before 20<sup>th</sup> June 2015)

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Address for communication: \_\_\_\_\_

Mobile No: \_\_\_\_\_

Email: \_\_\_\_\_

This is to certify that Sri/Smt \_\_\_\_\_

\_\_\_\_\_ is

permitted to attend the skill development programme on Swat Modeling to be held during 06<sup>th</sup> –08<sup>th</sup> July 2015 at CWR, IST, JNTUH, Hyderabad.

Accommodation required: YES/NO

**Signature of the applicant**                      **Signature of forwarding authority along with seal**

Station

Date:

(Photocopies of this form may be used.)