

A. I. C. T. E – SPONSORED NATIONAL LEVEL

STAFF DEVELOPMENT PROGRAMME

on

Applications of RS and GIS for Disaster Management (ARGDM-2011)

Scheduled during 01st -13th August, 2011

Sponsored by



All India Council for Technical Education (AICTE), New Delhi

Coordinator

Dr. M.V.S.S. Giridhar

Coordinator (ARGDM-2011), Centre for Water Resources,
Institute of Science and Technology (IST), JNT University Hyderabad,
Kukatpally, Hyderabad - 500 085

Organized by



***Centre for Water Resources,
Institute of Science and Technology,
J N T University Hyderabad, Hyderabad – 500 085
Andhra Pradesh, INDIA.***

ABOUT JNTUH, HYDERABAD

Jawaharlal Nehru Technological University was established on 2nd October 1972. This University has been divided into 4 different Universities by the government of Andhra Pradesh vide A.P. Govt. Act No.30. Namely, Jawaharlal Nehru Technological University Hyderabad (JNTUH) located in Kukatpally campus, Hyderabad. Jawaharlal Nehru Technological University Anantapur (JNTUA) located in Anantapur campus, Jawaharlal Nehru Technological University Kakinada (JNTUK) located in Kakinada campus and Jawaharlal Nehru Architecture & Fine Arts University (JNAFAU) located in Masab Tank campus, Hyderabad by A.P. Govt. Act No.31. This new University hereafter known as Jawaharlal Nehru Technological University Hyderabad (JNTUH) situated in 85 acres campus in Kukatpally, Hyderabad. JNTUH has 2 constituent engineering colleges, one at Hyderabad and the other in Jagityal, Karimnagar, and constituent units in the campus, conducting UG, PG and Research programs in various disciplines of Engineering, Technology, Sciences and Management. Besides, JNTUH has as many as 357 affiliated colleges spread over the 10 districts of Telangana region of Andhra Pradesh, namely, Adilabad, Hyderabad, Karimnagar, Khammam, Mehabubnagar, Medak, Nalgonda, Nizamabad, Rangareddy and Warangal.

ABOUT CENTRE FOR WATER RESOURCES (CWR), IST, JNTUH, HYDERABAD

The Centre 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 then Ministry of Education and Culture, Government of India to impart training in the management of water resources at an advanced level and to undertake research and developmental activities in the field of water, land and environmental management and other related areas. Since then the Centre has acquired a reputation among user agencies like State and Central Government Departments and other public sector and private organisations 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 modern 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 Andhra Pradesh, India. The city presents an attractive amalgamation of ancient architecture, together with the 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 536 m 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.

IMPORTANT DATES:

- 1. Last date for receipt of applications** : 10th July, 2011
- 2. Intimation to the selected candidates through e-mail** : 11th July, 2011

REGISTRATION:

The staff development programme is offered to a limited no of participants (20) on first come first served basis. Selected teachers 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. **No registration fee** for the course.

Accommodation: Accommodation will be provided in the campus guest house to outstation participants and breakfast, working lunch and dinner will be provided at the course venue/university dining hall.

OVERVIEW OF THE COURSE

The objective of the two week SDP is to provide a forum for presenting and discussing the latest trends in the areas of RS, GIS and GPS applications for disaster management. Remote sensing (RS), Geographic Information System (GIS) and Global Positioning System (GPS) provides extremely useful tools for environmental, water resources and disaster management. They are widely recognized as supporting tools for the planning, monitoring, development and management of the appropriate utilization of resources at micro to macro level. Various tools, which can be applied to address water, environment and various disaster related problems and the role that the professionals can play in managing disasters in their respective areas would be discussed.

Course Content:

- Fundamentals of Remote Sensing and Geographical Information System.
- Radiation – Water interactions, spatial extent of water bodies.
- Basics principles of Remote sensing principles, GIS and GPS
- Satellite image analysis and DEM creation.
- Hydrological Parameter Determination, using GIS such as surface slope, channel length and soil characteristics of watersheds.
- Rainfall-runoff modeling
- Evapotranspiration mapping using GIS.
- Evaluation of land use and land cover changes and its effect on environment.
- Geo-Hydrology & Groundwater Modeling.
- Soil Erosion and Control practices.
- Landslides, Flood and drought management using geomatics.
- Integration and application of RS and GIS for disaster management.
- Hands on practical training on Arc GIS 9.1 and ERDAS 8.7.
- **Lectures: lab sessions: 60:40**

Faculty: Resource Persons are drawn from NRSA, GIS India, SOI, NGRI, OU, AU, NIT's, IIT's, JNTUH and experts from Institutions and Industries.

Venue: CWR Seminar Hall,
Fifth Floor, IST Building,
JNTU Hyderabad,
Kukatpally, Hyderabad-500 085

MAILING ADDRESS

All correspondence should be addressed to

Dr. M.V.S.S. Giridhar

Coordinator, (**ARGDM-2011**)

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REGISTRATION FORM

(Please mail the filled in form to reach us on or before 10th July, 2011)

Name and designation: _____

Address for Communication: _____

Telephone: _____

E-mail: _____

This is to certify that Sri/Smt _____ is permitted to attend the staff development programme on Applications of RS and GIS for Disaster Management ARGDM-2011 to be held during 01st -13th August, 2011 at CWR, IST, JNTUH, Hyderabad.

Accommodation required: YES/NO

Signature of the applicant

Signature of the forwarding authority along with seal

Station:

Date:

(Photocopies of this form may be used)