

### **ABOUT JNTUH, HYDERABAD:**

Jawaharlal Nehru Technological University, Hyderabad, was established on 2nd October 1972 by the Legislature of the State of Andhra Pradesh as the first Technological University in the country. It has been in the forefront for the past 44 years in providing quality technological education of relevance in the State of Andhra Pradesh. After 36 years of existence it was restructured into 4 different Universities by the Government vide Government Ordinance No.13, dated 18th August 2008 and Act of State Legislature No.30 dated September 2008 and this new University has been designated as Jawaharlal Nehru Technological University Hyderabad (JNTUH). NTUH is situated in a sprawling 89-acre campus at Kukatpally, Hyderabad. It has now 4 Constituent Engineering Colleges, one at Hyderabad, one at Kondagattu (Jagithyal), one at Manthani and one at Sultanpur (Medak dist.) and 15 other constituent units on Hyderabad campus. JNTUH offers B.Tech. programmes in 24 disciplines and B.Pharm at UG level; Integrated 5-year dual degree Masters programme; M.Tech. Programmes in 68 disciplines, M.Pharm. in 11 disciplines; M.Sc. in 10 disciplines; MCA, MBA and Double Degree Programmes at P.G. level; in addition to the offer of M.S., M.Phil., Ph.D.

### **ORIGIN AND DEVELOPMENT OF CENTRE FOR WATER RESOURCES:**

The Centre for Water Resources (CWR) which forms a part of the Institute of Science and Technology, JNT University, 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 development 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 organizations as an apex body for imparting Education, training and undertaking field oriented research projects in water, land and environmental management. Over the years the activities of the Centre has been greatly diversified and has concentrated on water, land and environment for sustainable development with networking from National and International Organization Central public Health and Environmental Engineering Organization has recognized this

Centre as one of the renowned institute offering P.G. courses in water and environment. The Centre is funded by the World Bank under Technical Education Quality improvements program me (TEQIP) and established well-equipped laboratories. Research and Consultancy projects were taken up in many areas of water resources and environment at National and International levels. Many National and International conferences were also conducted by the Centre notable among them is ICHWAM (International Conference on Hydrology and Watershed Management) series which is being conducted for every four years and National Conference on Water, Environment and Society (NCWES) series which is being conducted for every year.

### **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 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.

### **OVERVIEW OF THE COURSE**

The objective of the two week FDP 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) provide 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 recourses 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.

### **A.I.C.T.E. - SPONSORED NATIONAL LEVEL FACULTY DEVELOPMENT PROGRAMME**

on

### **Applications of Geomatics for Disaster Management (AGDM-2017)**

Scheduled during 13– 25 November 2017

### **REGISTRATION FORM**

(Please mail the filled form to reach us on or before 20<sup>th</sup> October 2017)

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

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

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

Telephone: \_\_\_\_\_

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

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

\_\_\_\_\_ is permitted to attend the Faculty Development Programme on Applications of Geomatics for Disaster Management (AGDM-2017) to be held during 13 – 25 November 2017 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.)

**IMPORTANT DATES:**

Last date for submission of registration form: **20<sup>th</sup> October 2017**

Information to the selected candidates through email: **21<sup>st</sup> October 17**

**ELIGIBILITY**

- Faculty working in Universities, Engineering, Polytechnique and Degree colleges are eligible to participate in the FDP.
- Faculty from departments of Civil Engg., Geology, Geography, Geophysics, Hydrology, Watershed Management,, environmental management, Agriculture Engg., Agriculture Sciences and related branches/ disciplines.

**REGISTRATION**

The faculty development programme is offered to a limited no of participant (50) 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 for outstation participants and breakfast, working lunch and dinner will be provided at the course venue/ university dining hall.

**FACULTY:**

Resource persons shall be drawn from NRSC, CGWB, INCOIS, SOI, NGRI, OU, AU, NIT's, IIT's, JNTUH and senior experts from Institutions and Industries.

**VENUE:**

**Centre for Water Resources  
Institute of science and technology,  
JNTUHYDERABAD,  
Kukatpally, Hyderabad-500085**

**COURSE CONTENT:**

- Fundamentals of Remote Sensing and Geographical Information System. Radiation-Water interactions, spatial extent of water bodies
- Basics principals of Remote Sensing principals, 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 applications of RS and GIS for disaster management.
- Hands on practical training on Arc GIS 9.1 and ERDAS 8.7.

**MAILING ADDRESS:**

All correspondence should be addressed to:

**Dr. M.V.S.S. Giridhar**  
Coordinator (AGDM-2017)  
Centre for Water Resources,  
Institute of Science and Technology (IST),  
Jawaharlal Nehru Technological University  
Hyderabad,  
Kukatpally, Hyderabad - 500 085  
Mobile: 09440590695  
e-mail: [agdmcwr@gmail.com](mailto:agdmcwr@gmail.com)  
website: [www.istjntuh.org](http://www.istjntuh.org) and [www.jntuh.ac.in](http://www.jntuh.ac.in)

**A.I.C.T.E – SPONSORED NATIONAL LEVEL****FACULTY DEVELOPMENT PROGRAMME**

on

**Applications of Geomatics for Disaster  
Management (AGDM-2017)**

Scheduled 13 – 25 November 2017

Sponsored by



**ALL India Council for Technical Education  
(AICTE), New Delhi.**

Coordinator

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

Coordinator (AGDM-2017)

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.**