

# Five Day Online Faculty Development Program

## on Applications of Remote Sensing & GIS in Water Resources



(October 19<sup>th</sup> -23<sup>rd</sup> 2020)

### Coordinator

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Organized

By



Department of Civil Engineering  
National Institute of Technology  
Andhra Pradesh  
Kondaprolu, West Godavari District,  
Tadepalligudem

### About the Institute

National Institute of Technology Andhra Pradesh is the 31<sup>st</sup> institution among the chain of NITs started by the Government of India. NIT Andhra Pradesh was established in the state of Andhra Pradesh in the year 2015. With the support of MHRD and an active role of the director, Prof. C. S. P. Rao, the institute started functioning in its permanent campus which is widely distributed in 178 acres. Most of the buildings are under construction and some of them are in the finishing stage. All the students now reside in the newly constructed hostel buildings inside the permanent campus. Presently, the institute offers B.Tech, M.Tech, M.S (by research) and Ph.D. programs. The institute offers B.Tech., M. Tech., M.S. (by Research) and Ph.D. Programmes in Eight Engineering Disciplines. The institute is about to launch M. Tech. Programmes across thrust engineering domains from the year 2020.

### About the Department:

The Civil Engineering Department established in the year 2015 with an intake of 60 UG Students. The department has been successful in producing excellent and well-trained graduates. Today we have 196 Students (UG & PG) and 14 faculty members drawn from premium institutes throughout India. The department offers B. Tech, M.Tech/M.Sc (Geotechnical Engineering), M.S (by Research) and Ph.D. Programmes.

Faculty research interests include, but are not limited to the following areas: Geotechnical Earthquake Engineering, Environmental Geotechnology, Structural Health Monitoring, Water & Wastewater Treatment, GIS-based Hydrological Modelling, Integrated Watershed Management and Climate change.

### Objective of this Program

- Introducing the basics of Remote Sensing and GIS
- Providing exposure to practical problems and their solutions, through case studies and live projects in the field of water resources engineering, Remote Sensing and GIS.
- Building in confidence and capability amongst the participants in the application of RS & GIS in water resource field.
- Exposing the participants to the challenges in modelling water resources under climate change.

### Who Can Attend?

- Graduate students, Post graduates and scholars carrying out research in the field of water resources can attend this course.
- Engineers, working officials of NGOs, and Researchers in the field of RS& GIS and Water Resources can attend to this course.
- Faculty members from Engineering colleges.

## About Geospatial Applications in Water Resources

An accurate assessment of the available water under climate change, both on surface and ground is needed for optimum design, planning and operation of the water resources projects as well as for watershed management to meet the basic needs of the people in the coming decades. The remote sensing technique is useful in deriving high-resolution information in spatial and temporal domains about the hydrological parameters. Geographical Information System (GIS) technology provides suitable alternatives for efficient management of large and complex databases.

## Selection Criteria & Certificate Issuance

Selection will be done on a first-come-first-serve basis. E-certificates will be issued to the participants who attend all the sessions

## Registration:

The Registration fee is Rs. 500/- per participant for Faculty & Working Engineers and Rs. 300/- for Research Scholars and PG Students. **Fee needs to be paid only after getting the confirmation email from the FDP coordinator.** The fee is non-refundable. Please [click here](#) for online registration.

## Important Dates:

- Last date for submission of registration form: 15<sup>th</sup> October, 2020 (5.00 PM) or until the maximum intake (as determined by NIT Andhra Pradesh) is met, whichever happens earlier.
- Intimation of selection will be by email

**Address for Communication:**  
[fdp.civil@nitandhra.ac.in](mailto:fdp.civil@nitandhra.ac.in)

## Organizing Committee

### Patron

**Prof. C. S. P. Rao**  
Director, NIT Andhra Pradesh



### Co-patrons

**Dr. Dinesh P. Sankar Reddy**  
In-charge Registrar  
NIT Andhra Pradesh

**Dr. Girdhar Rajesh**  
Assistant Professor & Head  
Department of Civil Engineering  
NIT Andhra Pradesh

## Organizing Members

Dr. S Baranidharan	Dr. J Prathyusha
Dr. Shaik Subhani	Dr. Ashok J
Dr. A Rajeev	Dr. Vinil G
Dr. Vinay C	Dr. Rajyalakshmi G
Dr. Sushree Sunaya	Mr. Ch Chandra Sekhar

## List of Speakers



**Dr. K Venkata Reddy**  
Associate Professor  
Geo-technical Engineering Division  
Head & M.Tech RS&GIS Course  
Coordinator, Department of Civil  
Engineering, NIT Warangal



**Dr. Sanjay Jain,**  
Scientist G & Head  
National Institute of Hydrology,  
Roorkee



**Dr. Y. R. Satyaji Rao**  
Scientist G and Head  
Deltaic Regional Centre  
National Institute of Hydrology



**Dr. V. S. Jayakanthan**  
Scientist E  
National Institute of Hydrology,  
Kakinada



**Dr. T Thomas**  
Scientist E  
National Institute of Hydrology,  
Bhopal



**Dr. Vasanta Govind Kumar Villuri**  
Assistant Professor  
Coordinator, Geospatial Technology  
Group, IIT(ISM) Dhanbad



**Dr. T Reshma**  
Assistant Professor  
Department of Civil Engineering  
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**Dr. P SubbaRao**  
Assistant Professor  
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**Dr. Ch. Vinay**  
Assistant Professor  
Department of Civil Engineering  
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