



NRDMS, Department of Science and Technology (DST),

Government of India, New Delhi

Sponsored

21 Day Training Programme on Geospatial Technologies

(Equivalent to Refresher Course)

on

Capacity-Building in Geospatial Technologies

01 December – 21 December 2016

Patron

Dr Leena Srivastava

Hon'ble Vice Chancellor, TERI University

Programme Advisor

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Head, Department of Natural Resources, TERI University

Organizing Committee

Course Coordinator
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Organized by

Department of Natural Resources

TERI University, 10 – Institutional Area, Vasant Kunj,

New Delhi – 110 070

Background

Assessment, monitoring and planning are the central elements for managing resources sustainably. This requires a high quality data with respect to accuracy, preciseness, reliability and spatio-temporal representativeness. Timely and periodicity in data acquisition is one of the best advantages in geoinformatics science, which helps in sensitivity and situation analysis from local to global scale.

Since last few decades, Information Technology is providing platforms to disseminate the knowledge and potential uses of satellite base outcomes for various sectors like water, agriculture, urban, livelihood and rural development, forestry to global community. Another unique capability of remote sensing is to remove trans-boundary and political barriers for the researcher(s). Remote sensing images along with Global Navigation Satellite System and spatial analysis built in Geographical Information Systems provide the platform for any researcher(s) / planners / academia and students to work in their area of interest and across different sectors. It also enables to assess the qualitative and quantitative information in spatio-temporal domain. Geoinformatics is an interdisciplinary subject, which has applications in almost every discipline. There is an increased dependency of organizations, businesses and governments on the integrative and analytical power of geoinformatics to address real world issues. This has led to a huge demand for people with sound theoretical insights and technical knowledge into the science of geoinformatics.

Objectives of the programme

- Impart basic knowledge principles and applications of Geoinformatics
- Hands on training through open sources platform
- Expert lecture on environment, society, natural resources, climate change and sustainability – key competence of the TERI University
- Three to four days project work for participants to use Geospatial techniques in various domain follow by the expert lecture.

Who can apply?

The NRDMS (DST) training programme is open for participants of colleges/universities' faculty; scientists; state/central government officials; disaster management planners, research scholars/ fellows in the field of Geography, Geology, Geophysics, Oceanography, Water resources, Climatology, Atmospheric Science, Environmental Science, Ecology, Economics and secondary school teachers who wish to develop their skills in geospatial technologies. The candidate must be nominated by their respective organization.

How to apply

Interested candidates are required to send duly filled form downloadable from our website (<http://www.teriuniversity.ac.in/>) and forward the completed application by email to raj@teriuniversity.ac.in or send the application to Dr Vinay S P Sinha, Programme Coordinator, MSc. Geoinformatics, Department of

Natural Resources, TERI University, 10 Institutional Area, Vasant Kunj, New Delhi – 110 070 latest by 1st November 2016. Selected candidates will be informed by 5th November, 2016 either by email or phone.

Admission criteria

The application will be considered based on the first cum-first basis subject to the eligibility criteria. The eligibility of the applicant will also be assessed through potential and scope of the future use of the geospatial technologies. There are limited 25 seats.

Lodging, boarding and travel

All the participants will be provided shared accommodation in the Guest House/ Hotel close to campus. Boarding will be taken care of by the University. To and fro AC – III tier train / actual bus fare as per the norms of University. Travel by private car/ taxi vehicle will not be reimbursed. Any expenses other than the above will have to be borne by the participant.

TERI University

The TERI University has been set up as an institution of higher learning to meet set of needs for a rapidly developing India. But, as a global institution, while it draws strength from the ethos and traditions of India, the University reaches out in sourcing knowledge from across the globe. University aspires to contribute globally by serving society as a seat of advanced learning and to promote learning through teaching and through creating and sharing knowledge. The University commits itself to academic excellence and an environment, which would encourage personal and intellectual growth. The TERI University provides world-class facilities and resources to its students and faculty members so as to usher in innovative and multidisciplinary research. The University has been accredited with an ‘A’ grade by the National Assessment and Accreditation Council (NAAC).

Department of Natural Resources

The Department aspires to advance and impart knowledge about the environment and natural resources, including their characteristics and dynamics, economic and societal values and their management in an ecologically, socially, technically, and economically sound and sustainable manner. The Department offers masters and doctoral programmes. The masters’ programmes are in Climate Science and Policy, Environmental Studies and Resource Management, and Geoinformatics. The programmes prepare students to meet the changing needs of society for effective and integrated environmental management. The courses equip them with cutting edge tools and techniques through teaching and research. The Department's areas of research include natural resource management, water and wastewater management and treatment technology, air quality modelling and management, environmental health and risk assessment, integrated impact assessment, aerosol science, climate change, economic valuation, remote sensing, GIS, GPS, forestry, applied ecology, landscape ecology, biodiversity assessment, conservation and characterization and related fields.

MSc. in Geoinformatics

The MSc. programme in Geoinformatics at TERI University is a two-year interdisciplinary programme for students who want to specialize in geoinformatics for assessing, monitoring, evaluating and managing the resources across sector. The study of geoinformatics’ principles equips students with space technologies and geospatial models that can support such estimation and analysis.

The core strength of the programme lies in its innovative curriculum that inspire present and future professionals with practical and theoretical knowledge in the domain of natural and human resources management. Students are exposed to a wide range of cutting-edge applications of geospatial techniques to match real-life problems. The programme is designed in a way, which provides theoretical knowledge on principles of geoinformatics with more emphasis on applications of natural resource management through hands-on demonstration, practical exercises, training programmes, 6-8 weeks summer internship, independent study and 24 weeks major project (one semester). Programme has flexible options for elective courses, which support students to build their career by choice.

About Venue - New Delhi

New Delhi is the traditional and present day capital of India situated along the river Yamuna. The best time to visit Delhi is from **October to March** when the weather is at its best. During this period flowers are at their blooming best, the weather is pleasant and enjoyable to experience incredible Delhi (<http://www.delhitourism.gov.in>). The minimum winter temperature is 5^o and maximum temperature is 25^o in the month of December. It requires woollen and body warmer during these periods. You can browse Govt. of Tourism site to know more about various tourist attractions of the city.

How to Reach

From Railway/Bus stations reach Munirka and join Nelson Mandela Marg.

From Airport/Gurugram connect to Mehrauli-Mahipapur road.

