Course Title:

Hands-on Training: Applications of Geo-Spatial tools in Watershed Management

Date of the Course:

7th – 10th January 2020

Background & Context:

The contemporary tools such as Remote Sensing (RS), Geographic Information System (GIS) and Global Positioning System (GPS) has a wide variety of applications in natural resource monitoring and management. In watershed development activities the Geo-Spatial technology helps in the initial planning of interventions, concurrent monitoring of the biophysical impacts and make suitable decisions. This training programme will provide hands-on experience in available open-source remote sensing satellite data, GPS, open-source geospatial software (QGIS) for watershed delineation, satellite image analysis, etc.,

Objectives & Outcomes:

Objectives

- To provide a basic and practical understanding to familiarise with RS, GIS and GPS concepts/techniques and to and applications of RS/GIS in watershed management studies
- To offer a hands-on training on open source GIS software and using basic GIS tools and handling GPS for acquiring field information and presentation

Expected outcomes

The participants will acquire knowledge on GIS, remote sensing and GPS. The participants will be exposed to different software tools and techniques for handling spatial information, analysis and presentation.

Language:

The course will be conducted in English and Hindi/Marathi.

Who should attend?

NGO Decision Makers, NGO Staff, Members of Autonomous Institutions, Corporate staff, Activists, Government Officers (District/ Taluka / Village Level), and other institutions interested in gaining local experience. Entry limited to 20 participants only.
**Course Content:**

1. **(Concept)**
   - Basics of RS, GIS and GPS
   - GIS data types
   - Satellite data interpretation
   - Watershed planning using GIS
   - Watershed Impact assessment indicators RS and GIS

2. **(Practical’s)**
   - Image registration
   - Watershed delineation
   - Working with Raster data
   - Working with Vector data
   - Google Earth and GPS data
   - Google earth engine

**NOTE: Participants are expected to have basic computer operating skills and own laptop for practical sessions.**

**Tools:**

- Quantum GIS (Q-GIS)
- Google Earth
- Garmin Handheld GPS
- SOI Toposheets

**Venue of the Course:**

Fr. Hermann Bacher Learning Centre
Darewadi, Block: Sangamner, Dist.: Ahmednagar, Maharashtra

**Course Fees:**

Registration Fees Rs. 2000/- only (The costs of lodging, boarding and travel during the course will be borne by WOTR). *Please note that any other contingencies including medical expenses arising during the training course will be borne by the participant.*

**Deadline for Registration:**

31st December 2019

**For more information:**

Mr. Hemant Pinjan – Trainings
WATERSHED ORGANISATION TRUST, (WOTR)
“Paryavaran” Behind Market Yard, Ahmednagar – 414 001
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Email: trainings@wotr.org
Website: www.wotr.org
Hands-on Training: Applications of Geo-Spatial tools in Watershed Management

(7 – 10 January 2020)

Nomination Form

Name: ________________________________________________________________

Age: ___________________________  Sex: _________________________________

Designation: ___________________________________________________________

Educational Status: _____________________________________________________

Present Job Responsibilities: _____________________________________________

Experience (years): _____________________________________________________

Organisation: __________________________________________________________

Address: ______________________________________________________________

_______________________________________________________________________

Telephone: _____________________  Fax: _________________________________

Email address: ___________________  Web site: _____________________________

Your expectations from the Program: ______________________________________

_______________________________________________________________________

Date of arrival: ___________________  Time of arrival: _________________________

(The vehicle taking the participants to the Learning Centre will leave from the WOTR Project Office in Ahmednagar by 5 p.m. on 6th January 2020; similarly, all participants will return to WOTR Project Office in Ahmednagar at 5 p.m. on last day of the program. Participants should plan their return travel accordingly)

PAYMENT DETAILS:

Demand Draft No.: _______________________________  Date: _____________________

Drawn on Bank: ________________________________

Amount: (Rs.) ________________________________