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## ANNOUNCEMENT

### Introductory Training Program on Application of GIS in Water Resources

Center of Research for Environment, Energy and Water (CREEW) is a non-profit, research-based non-government organization.

Water Modeling Solutions Pvt. Ltd. (WMS) is an independent consulting firm that aims at providing expert level consulting services on water resources modeling.

CREEW and WMS jointly call interested professionals and researchers to participate in the "Introductory Training Program on Application of GIS in Water Resources"

Geographic Information System (GIS) is a computer-based tool that analyzes, stores, manipulates and visualizes geographic information on a map. With modern computers and digital data available readily, GIS is being widely used in a multitude of areas and water resources is one such major discipline. Use of GIS for hydrological analysis; hydraulic interpretations; water supply distribution systems design; flood and water induced disaster studies; and water resources planning, among others has become very handy, convenient and efficient.

This training focuses on building the theoretical background on GIS followed by key hands on exercises demonstrating application of GIS in the water resources sector.

#### Potential Candidates

- **We expect you have**
  - Background in water resources
  - Good command of Windows-OS and MS-Office package
- **You will have an advantage if you have**
  - Experience of working with water resources models
  - Background in computer aided designing/drawing (CAD)
  - Experience of working with other similar softwares

#### Training Schedule

- **Starting Date:** Sunday, 2<sup>nd</sup> April, 2017 (20<sup>th</sup> Chaitra, 2073)
- **Ending Date:** Wednesday, 5<sup>th</sup> April, 2017 (23<sup>rd</sup> Chaitra, 2073)
- **Time:** 10:00 am to 6:00 pm
- **Venue:** ICTC Building, Pulchowk Engineering Campus, Lalitpur

*[One time lunch and two times tea/coffee per day will be provided during the training days]*

#### Training Fees

[Inclusive of VAT]

- **Institutional:** Rs 30,000/- per person
- **Individuals:** Rs 22,000/- per person
- **Students:** Rs 12,000/- per person

*Students must compulsorily submit a copy of their valid college/university identity card along with a recommendation letter from their academic advisor/ head of the department during registration.*

#### Registration

- **Email to** [info@creew.org.np](mailto:info@creew.org.np) with an application form attached (please mention "GIS training" as the subject)
- **Deadline:** 30<sup>th</sup> March, 2017

#### Note

- GIS software will be provided to the participants.
- Participants are required to bring their own laptops for the training.

**Note: Admission is on first come first serve basis; maximum number of participants is limited to 15**

# Introductory Training Program on Application of GIS in Water Resources



Course duration: 32 hours

Date: 2-5 April 2017

**Jointly Conducted by**



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## Introductory Training Program on Application of GIS in Water Resources

### Tentative Program Schedule

Day	Activities
<u>Day 1</u>	<ul style="list-style-type: none"><li>• Opening session</li><li>• Introduction of GIS and its applications; installation; data types; creating, editing and visualizing vector data (lecture, demonstration and hands-on exercise)</li></ul>
<u>Day 2</u>	<ul style="list-style-type: none"><li>• Spatial analysis of vector data; creating, editing and visualizing raster data; analysis using raster data(lecture, demonstration and hands-on exercise)</li></ul>
<u>Day 3</u>	<ul style="list-style-type: none"><li>• Coordinate systems; projections; conversion and geographic transformation; integrating GIS data with Google earth; importing GPS data and plotting; working with basic layout of maps (lecture, demonstration and hands-on exercise)</li></ul>
<u>Day 4</u>	<ul style="list-style-type: none"><li>• Specific applications to water resources – Thiessen polygon; proximity analysis; watershed delineation, flood inundation mapping; precipitation contour mapping; advanced map layout (lecture, demonstration and hands-on exercise);</li><li>• Closing ceremony and certificate distribution</li></ul>

### **Important**

- ✓ Lunch and tea/coffee with cookies will be provided during the training period.
- ✓ Training material including a quick reference manual, notebook and pen will be provided.
- ✓ The participants are requested to bring their laptops with them for the training.
- ✓ GIS software will be provided to the participants and will be installed during the training.

**We will not be providing any laptops/desktops to the participants for the training.**