

NATIONAL WATER ACADEMY, PUNE

**Training Programme on**  
**APPLICATION OF REMOTE SENSING AND GIS IN WATER**  
**RESOURCES SECTOR**  
(22-26 February 2016)

**REGISTRATION FORM**

Name  
(in capitals): \_\_\_\_\_

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

Organization: \_\_\_\_\_

Responsibilities in brief) \_\_\_\_\_

Full Postal Address: \_\_\_\_\_

Tel Nos.(with STD Code) : \_\_\_\_\_

Fax No: \_\_\_\_\_

Mobile : \_\_\_\_\_

E-mail ID: \_\_\_\_\_

Date : \_\_\_\_\_  
(Signature of the participant)

**SPONSORING AUTHORITY**

Full Postal Address: \_\_\_\_\_

Tel Nos.(with STD Code) : \_\_\_\_\_ Mobile \_\_\_\_\_

Fax No: \_\_\_\_\_

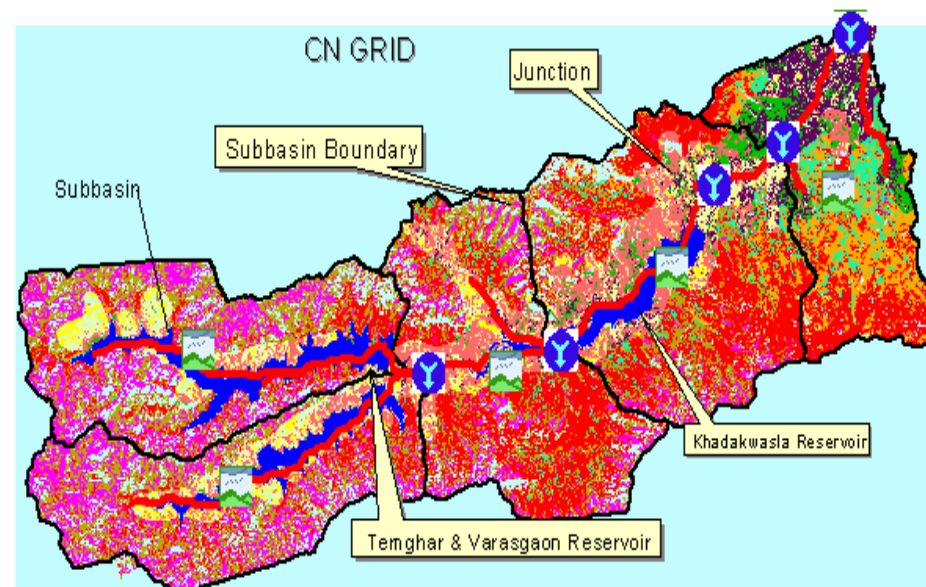
E-mail ID: \_\_\_\_\_

Date : \_\_\_\_\_  
(Signature and seal)



**GOVERNMENT OF INDIA**  
**MINISTRY OF WATER RESOURCES**  
**CENTRAL WATER COMMISSION**

**Training Programme on**  
**APPLICATION OF REMOTE SENSING AND GIS IN WATER**  
**RESOURCES SECTOR**  
(22-26 February 2016)



**Organized by**  
**NATIONAL WATER ACADEMY**  
**PUNE**

Completed Registration Form may be sent by Fax to: 020-24380110

## INTRODUCTION AND OBJECTIVES

Encapsulating the maps and images into data infrastructure through water resources management strategies through space technology is the need of the hour and the emphasis on information transparency and sharing, with the recognition that the spatial information is vital for flood studies, citizens, and government have a right to access it, appropriately. Water Resources Management is an integration of technology within the natural boundaries of a drainage area for optimum development of land, water and plant resources to meet the basic minimum needs of the people, in a sustained manner through spatial technology.

GIS and remote sensing tools can be used for solving real-world problems and complex issues concerning water resources development. Spatial technology can help the floodplain managers to create accurate and current floodplain maps with improved efficiency and speed at a reasonable cost. A still more urgent need is for integration of many scattered programmes of WRDM and other development activities into well prepared watershed projects based on a study of climate, land water resources for bringing about sustained natural resources development.

This programme is conceived to impart training on different Geoinformatics aspects. The purpose is not only to create awareness regarding the use of the spatial technology but also to utilize the latest technical know-how for the flooding in watersheds.

## PROGRAMME CONTENTS

- Principles of Remote Sensing, Satellites and sensors
- Geographic Information System in water resources
- GPS and its application
- Application case studies
- Flood modeling in GIS environment
- Application of software tools for water resource management using GIS
- Use of geo-informatics in Watershed, integration of various tools with GIS for extraction of watershed characteristics

## PROGRAMME FEE

There is **no program fee** for participants from **Central and State Govt. departments**. Charges for participants from other agencies are:

<i>Cate-gory</i>	<i>Description</i>	<i>Fee in Rs. (per participant)</i>
A	Central/State Government/Departments including their autonomous bodies:	Nil
B	PSUs/SPVs of State governments which are <i>Not-for-profit</i> organizations/ authorities/ bodies of state governments, even if they have "Corporation" or "Limited" in their name, <b>only if they certify</b> that they are "not for profit" organizations.	Nil
C	Recognized academic institutions, NGOs	1500/-
D	PSUs of MoWR, Govt of India	5,000/-
E	Central and State PSUs ( <i>other than Category B &amp; D</i> )	10,000/-
F	Private Companies, Individuals	15000/-

## PAYMENTS MODE

Payment may be made by Demand Draft drawn in favour of **Deputy Director (A&C), NWA, Pune**, prior to start of the programme.

## DURATION

**22-26 February 2016 (1 week)**

## VENUE

National Water Academy, Khadakwasla, Sinhgad Road, Pune-411 024.  
(for more info on NWA, visit <http://nwa.mah.nic.in>)

## TARGET GROUP

Graduate Engineers, professionals with minimum two years of work experience in the field of water resources, of the levels of Director / SE / Dy.Director / EE / AEE / AE from Central / State Govt. organizations, PSUs, Pvt Organizations etc. with working knowledge of computers.

## PARTICIPATION

The nomination of the officers fitting the target profile may be sent to the Programme Coordinator latest by **05.02.2016**. All nominations received after the due date will not be considered for training. The accepted nominations would be posted on our web site (<http://nwa.mah.nic.in>) under the link "*Upcoming Events*", by **08.02.2016**. **Participants should join the course only after confirmed acceptance from NWA website.**

## LOCAL HOSPITALITY

NWA has a self-contained residential campus, and all out-station participants would be provided with accommodation in the NWA Hostel. **Lodging and boarding charges will be borne by the participants.** Airport/Railway station pickup/drop will have to be arranged by the participants.

## WEATHER

During the month of February normally it is winter and the average temperature of Pune may be around 20°C to 25°C.

## CONTACT

For sending nominations or for any information with regard to this Programme, please contact Programme Coordinator:

## PROGRAM COORDINATOR

**Manish Rathore**

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Pune – 411 024

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Website: <http://nwa.mah.nic.in>