

## ABOUT ALLAHABAD

The city of Allahabad is among the largest cities of Uttar Pradesh. It is situated at the confluence of three rivers Ganga, Yamuna and the mythological Saraswati. The sacred meeting point is known as Sangam. Allahabad city is well connected via Air, Rail and Road routes with major cities of India.

## MNNIT ALLAHABAD

Motilal Nehru National Institute of Technology Allahabad, Allahabad (MNNIT) is an Institute with total commitment to quality and excellence in academic pursuits. It was established in the year 1961 as a joint enterprise of Government of India and Government of Uttar Pradesh as MNREC, and was an associated college of University of Allahabad. On June 26, 2002 MNREC was transformed into National Institute of Technology fully funded by Government of India. The Institute has been granted the status of institution of national importance w.e.f. 15<sup>th</sup> August 2007.

## DEPARTMENT OF CIVIL ENGINEERING

The Institute had begun with offering Bachelor Degree Programmes in Civil Engineering. The Civil Engineering Department offers a Bachelor of Technology and four regular post graduate courses in Structural, Geotechnical, Environmental and Environmental Geotechnology Engineering. It also offers part-time course for in-service engineers in above mentioned specialization. The Department is also a recognized QIP (Quality Improvement Program) Centre for post graduate studies. Department also offers PhD Programme in above specialization. The course curriculum is up-to-date which cover both traditional and recent developments. It also provides research and consultancy services to government/non-government organizations.

## REGISTRATION FEE

Registration fee shall be **Rs 5,000/-** for the participants from the industry, **Rs4000/-** for participants from govt organization, **Rs 3000/-** for the participants from academic/research institutions and **Rs1000/-** for research scholars/students.

## PAYMENT

The fee should be sent in advance through Demand Draft drawn in favour of “**RWH-2014, MNNIT Allahabad**” latest by **20<sup>th</sup> November 2014** with filled registration form to Course Coordinator.

## IMPORTANT DATES

Last date for receiving applications: **20<sup>th</sup> Nov'2014**  
Notification of acceptance: **22<sup>nd</sup> Nov. 2014**

## Organizing Committee:

<b>Patron</b>	Prof. P. Chakrabarti Director, MNNIT
<b>Chairman</b>	Prof. A.K.Sachan Professor&Head, CED
<b>Convener</b>	Dr.R.M.Singh
<b>Coordinator</b>	Dr. H.K.Pandey
<b>Co-Coordinator</b>	Dr.D.Basu

## Members

Dr.Kumar Venkatesh  
Dr.Varun Singh  
Dr. K.Pallav

## Advisory Committee:

Prof.R.K.Srivastava  
Prof. S.K. Duggal  
Prof.R.P.Tiwari  
Prof. A.K. Singh  
Prof. R.D. Gupta  
Prof. R.C. Vaishya  
Prof. R.P. Singh  
Prof. P.K. Mehta

## For all Correspondence/Contact:

### Dr. H.K.Pandey

Course Coordinator (RWH-2014)  
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E-mail: hkp@mnnit.ac.in  
For details visit <http://www.mnnit.ac.in>

Self financed

Short Term Course

On

**RAIN WATER HARVESTING  
(RWH-2014)**

**November 24-28, 2014**



Organized

By

**Department of Civil Engineering  
Motilal Nehru National Institute of  
Technology Allahabad  
Allahabad - 211004, INDIA**

## GENERAL

It is well known fact that the ground water resource is exhaustible renewable water resource which is replenished over the periods particularly during monsoon season. It is also fact that the south west

monsoon is main contributors for recharging the groundwater.

Due to rapid growth in agriculture and industrial sectors the consumption of groundwater has increased many folds in recent past. The domestic need has also increased many times due to urbanisation and population growth. Erratic pattern of rainfall and varied geographical as well as geological condition, the accumulation of ground water in aquifer system is quite variable.

Through the technological interventions and mechanization the ground water has been extracted at quite higher rate than the replenishment. This has led to the situation of overexploitation and groundwater mining.

To manage the groundwater resource as supply side, apart from scientific development of groundwater, rainwater harvesting and artificial recharge have to be implemented. Supply of groundwater is dependent on the availability of fresh water in different aquifers. The depletion in water level and squeezing of aquifer resource situation warrants the implementation of rainwater harvesting so that supply side management is looked after and entire country become water sufficient. The proper design of recharge structures and their feasibility for implementation is need of our for our country in the present context of the food security plan of Govt. of India.

### **COURSE OBJECTIVE**

The objective of this short-term course is to disseminate the know how about the methods and cost effective design of Rainwater Harvesting to the participants with latest technological interventions. Since water conservation and groundwater recharge are essential to mitigate the problems of drinking water availability and sustainability in hard rock area and quality problems in soft rock area, the knowledge related to the aquifer geometry has to be disseminated so that planners may select the suitable site and frame the suitable recharge structures in rural and urban area different parts of

our country. The techniques of rainwater harvesting to augment the groundwater are different for different area having variation in geological condition.

### **COURSE CONTENTS**

In view of the present scenario of urbanisation and need of rainwater harvesting to be implemented both by the govt. organisations as well as individuals, the following themes have been proposed under this course;

- Types of groundwater problems in different regions.
- Groundwater Investigation and potential assessment.
- Concept of Rainwater Harvesting and Artificial Recharge
- Application of GIS in Rainwater Harvesting
- Techniques of Rainwater Harvesting
- Design of Rainwater Harvesting structures
- Cost estimation of Rainwater Harvesting Structures
- Impact analysis of Rainwater Harvesting structures

### **TARGET AUDIANCE**

Faculty, Officers, Engineers and Scientists working for water supply and management in different organisations are expected to join this course. Since, current scenario of water resource, problems and management which in turn are going to effect the concept of food security and human development index as well as the mandatory provision of Rainwater Harvesting for each building(>300m<sup>2</sup>) in all urban areas of the country, the participants from divergent field are expected to participate in this course. As participants are expected from all over India, this course would provide an excellent opportunity for the participants to interact with one another and discuss problems and solutions of mutual interest. It is expected that at the end of the course the participants may be in a position to identify the feasible areas and select appropriate methodology to implement in different hydro geological set up in India.

### **SPEAKERS**

The speakers like faculty members/experts from IIT's/ MNNIT/ Other NIT's and scientists from field organisations like CWC/CGWB and Reputed Institutes/ Consultants in relevant area would be invited so that sound knowledge and technical input are disseminated to the participants.

### **VENUE**

Course will be held at the Conference Room of Department of Civil Engineering, MNNIT Allahabad. The short term course will be inaugurated at 10:00 A.M. on 24<sup>th</sup> November 2014.

### **ACCOMMODATION**

Accommodation in the Executive Development Centre of the Institute will be provided on payment basis with an advance request.

### **NOTE**

- Scanned copy of registration form & DD may be send through email in advance.
- A separate registration form shall be used for every applicant.
- Incomplete registration form or registration form without demand draft shall be rejected.
- Registration fee is non refundable.
- No TA/DA will be provided for attending the course.
- Organisers have all the rights to cancel the course under unavoidable circumstances which will be communicated to all the participants by email.

Self financed  
Short Term Course  
on  
Rain Water Harvesting (RWH-2014)  
**November24 -28, 2014**

Department of Civil Engineering  
MNNIT Allahabad

**REGISTRATION FORM**

NAME (BLOCK LETTERS) :

\_\_\_\_\_

Gender: M / F

DESIGNATION: \_\_\_\_\_

INSTITUTION / ORGANIZATION:

\_\_\_\_\_

MAILING ADDRESS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TELEPHONE: \_\_\_\_\_

MOBILE: \_\_\_\_\_

FAX: \_\_\_\_\_

EMAIL: \_\_\_\_\_

Highest Qualification : \_\_\_\_\_ Experience : \_\_\_\_\_ Yrs.

PAYMENT: D.D. No.: \_\_\_\_\_ Dt. \_\_\_\_\_ Rs. \_\_\_\_\_  
**[Demand draft should be drawn in favour of "RWH-2014", MNNIT Allahabad].**

Date:

Signature of Applicant

Recommendation

Signature of Head of the  
Institution/Department/Organization with date