



**AICTE TRAINING AND
LERANING ACADEMY
(ATAL)**



**AICTE TRAINING AND LEARNING
FACULTY DEVELOPMENT PROGRAMME
(HYBRID MODE)**

on

**RAINWATER HARVESTING FOR
SUSTAINABLE DEVELOPMENT OF
GROUNDWATER**

(RHSDG)

5th-16th December 2022 (Hybrid Mode)



About the Institute

The institute was initially established as Sardar Vallabhbhai Regional College of Engineering & Technology in 1961 and was upgraded as a National Institute of Technology on 4th October 2002. Sardar Vallabhbhai National Institute of Technology (SVNIT) is one of the pioneering engineering institutions in the country which has contributed many outstanding engineers in India and abroad. At present, the institute runs six UG programs, nineteen PG programs, three-five years integrated M.Sc. programs, and Ph.D. programs in all disciplines of Engineering and Applied sciences. Special attention is also given to interdisciplinary research. The institute has an excellent placement record and growing at a high pace in terms of research as well as consultancy works. The institute is located at Ichchhanath on Surat-Dumas Road at a distance of about 9 km from Surat railway station and 8 km from Surat Airport. Being a coastal city and on the bank of the Tapi River.

About Civil Engineering Department

The Department of Civil Engineering is one of the pioneering departments of the Institute. The department has highly qualified faculty members engaged in teaching, research and development activities with the aim of achieving excellence in their fields. Department offers Post Graduate and Doctoral Programs in the following areas:

1. Water Resources Engineering
2. Environmental Engineering
3. Transportation Engineering and Planning
4. Urban Planning
5. Construction Technology and Management
6. Structural Engineering
7. Soil Mechanics and Foundation Engineering

Coordinator



Dr. S. M. YADAV

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Co-Coordinator



Dr. N.D. JARIWALA

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BACKGROUND OF THE PROPOSAL:

The “Rainwater Harvesting for Sustainable Development of Groundwater” (RHSDG) FDP will be held from 05-12-2022 to 16-12-2022. The theme of this FDP is closely aligned with sustainable development goal 6 of UNDP. According to this goal by 2030, expand international cooperation and capacity-building support to developing countries in water- and sanitation-related activities and programmes, including water harvesting, desalination, water efficiency, wastewater treatment, recycling and reuse technologies. It also aim to protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes by 2020. This FDP is inspired from the ministry of Jal Shakti Abhiyan “Catch the rain, where it falls, when it falls” launched in the month of March 2021. The theme of this FDP is closely aligned with sustainable development of groundwater resources to meet the present and future beneficial uses without causing unacceptable environmental consequences through Rain water harvesting.

COURSE CONTENTS:

- Conservation of groundwater through artificial recharge
- Rooftop rainwater harvesting for Groundwater recharge
- Aquifer recharge management
- Rainwater quality and the impact of rainwater quality on river water
- Assessment of groundwater quality
- Groundwater recharge for flood and drought mitigation.

- Application of AI and software’s to ground water recharge modelling

COURSE OUTCOMES:

The participants of the FDP will be able to:

- Understand the vital role of the preservation of rainwater through various means.
- The importance of recharging the groundwater table for the benefit of current and future generations.
- The participants will get the opportunity to plan and design a Rainwater Harvesting systems and also learn about best management practices.
- Understand practical tests for ground water recharging
- Perform ground water modelling using software and know about use of sensors for water level and water quality monitoring.
- Comprehensive faculty training in the core area of sustainable engineering on “Rainwater Harvesting for Sustainable Development of Groundwater” (RHSDG), curriculum development and updating, understanding & practice of pedagogy.
- Participants can practice rainwater harvesting and can guide in their respective areas for design and execution of rainwater harvesting system.

RESOURCE PERSONS:

The sessions will be handled by experts from academia, research organizations and industry in the subject area.

SCHEDULED DATES

5-16th DECEMBER 2022 (Hybrid Mode 1st week online and 2nd Week Offline)

Registrations are free

SCHEDULE (Hybrid Mode)

1 st Week (5-10 th Dec 2022) 7:00 PM-9:30 PM (Online)	2 nd Week (12-16 th Dec 2022) 9:30 AM: 5:00 PM (Offline)
Session 1 (by experts on Day1-6)	Session 1-14
Session 2 (by experts on Day1-6)	Field Visits and on campus Experiments
Session 3 and interaction with experts (Day1-6)	Teaching practice of DWLR, Article discussion and Questionnaire.

Procedure to apply for FDP

Step 1: Visit <https://atalacademy.aicte-india.org/> (Registration free)
Step 2: Create Account as Participant (Faculty/Research Scholar).
Step 3: Go to list of FDPs/Workshop Tab (present in Left side).
Step 4: Select month (December) to apply for RHSDG FDP.
Step 5: FDP list is visible on the screen; do apply for RHSDG and submit it.
Step 6: Check whether it is applied or not in Applied Workshop/FDP tab (Left side).
Step 7: Acceptance mail will be sent to approved participants. Seats are limited to 50, apply soon.

For further details contact:

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Student Coordinators:

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