

For Immediate Release: June 19, 2025

PRESS-RELEASE

IIT (ISM) Dhanbad to Launch 12-Week NPTEL Course on Groundwater Resource Management from July 21

The Indian Institute of Technology (Indian School of Mines) Dhanbad is set to launch a 12-week online course titled “*Availability and Management of Groundwater Resources*” through the SWAYAM-NPTEL platform. The course will commence on **July 21, 2025**, and continue till **October 10, 2025**, with the final examination scheduled for **November 2, 2025**.

The course will be conducted by **Professor Prasoon Kumar Singh**, from the Department of Environmental Science and Engineering at IIT (ISM) Dhanbad. Designed for students, researchers, and professionals in Geology, Hydrogeology, Geophysics, and Civil Engineering, this course aims to equip participants with a comprehensive understanding of groundwater resource availability and sustainable management practices.

The course curriculum covers a wide range of critical topics, including:

- The scientific basis of groundwater availability
- Hydrological cycle and aquifer types
- Groundwater conservation techniques
- Vadose and saturated zones
- Principles of groundwater movement and well hydraulics
- Recharge estimation methods
- Climate change impacts on groundwater
- Resource management methodologies

In addition to the video lectures, learners will have access to PowerPoint presentations, lecture notes, weekly assignments, and homework exercises, offering both theoretical knowledge and practical learning experiences.

This initiative reflects IIT (ISM) Dhanbad’s commitment to advancing hydrogeological education and promoting digital learning nationwide. Through the SWAYAM-NPTEL platform, the institute aims to make high-quality, specialized education accessible to a wider audience across India.

Enrolment for the course is now open and free of cost.

Interested learners can register at: https://onlinecourses.nptel.ac.in/noc25_ce143/preview

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