

# Lecture Series on Role of Rock Engineering in Nation Building

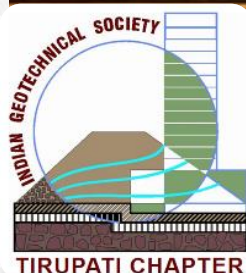
29 July 2023, IIT Tirupati (Hybrid Mode)

Organized by



National Institute of Rock  
Mechanics (NIRM)

In Association with



IIT Tirupati &  
IGS Tirupati Chapter



Registration Link

[https://nirm.in/lecture\\_registration.php](https://nirm.in/lecture_registration.php)

(No Registration Fee)

e-certificates will be issued to participants  
attending the full session



## About the Program

As part of Azadi Ka Amrit Mahotsav, NIRM is organizing series of day-long lecture programs on the topic, "Role of Rock Engineering in Nation Building" under the theme "Atmanirbhar Bharat". This lecture series started in March 2023 and will continue till 15<sup>th</sup> August 2023 with a view to target at least 75 colleges and 2500 students all over India. Lectures are conducted in physical mode, in the premises of a host Institute with other Institutions joining on-line. Seven such programs were conducted till now ([https://nirm.in/nirm\\_lecture.php](https://nirm.in/nirm_lecture.php)). The Eighth program is scheduled to be conducted with IIT Tirupati as the host institution, in association with IGS Tirupati Chapter.

## About NIRM

NATIONAL INSTITUTE OF ROCK MECHANICS (NIRM) is an autonomous Institute under the Ministry of Mines, Government of India. The Institute has been developed as a Centre of Excellence for Rock Engineering. Over the period of last 35 years, the institute has provided its expertise to various central, and state government agencies and public sector undertakings in the field of mining, hydroelectric projects, nuclear power projects, oil and gas sectors, and various infrastructure projects including rail, road, airports, hospital etc. The high-quality services provided by NIRM have found wide acceptance in the industry. With modern equipment and a coherent team of experienced and dedicated scientists, NIRM combines research activities and consulting services to provide solutions for a wide range of rock engineering problems.

## About Host Institution: IIT Tirupati

INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI (IIT Tirupati), established in 2015, is an autonomous Institute under Ministry of Education, GOI. IIT Tirupati campus spanning over 548.3 acres located on Yerpedu-Venkatagiri Highway. Currently, the campus buildings and facilities cater to 1,200 students and 120 faculty members with nine academic departments including Civil and Environmental Engineering. Subsequently, the campus shall be developed in various phases growing over 25-30 years to cater to a 12,000-student campus.



# About IGS Tirupati Chapter

Indian Geotechnical Society (IGS) was established in 1948 and commemorating its 75<sup>th</sup> year celebrations in the year 2023. IGS Tirupati Chapter established in 2005 to promote cooperation among students, engineers and academicians in sharing, advancing and disseminating experience and knowledge in the field of Geotechnical Engineering Practice in the Tirupati region.

## Program Schedule

**Date:** 29 July 2023

**Venue:** TC1, South Campus, IIT Tirupati

**Registration:** 9:00 AM

**Session 1: 9:30 AM - 01:00 PM**

**Inauguration**

**Lecture 1:** A Preamble on Rock Engineering for Infrastructural Development

- by Prof. A. Murali Krishna, Dept of Civil & Environmental Engg, IIT Tirupati

**Lecture 2:** Engineering Rockmass Classifications for Underground Structures and Foundations

- by Dr A K Naithani, HoD, Engg Geology Department, NIRM

**Lecture 3:** In-situ geotechnical investigations for assessment of rockmass behaviour in various infrastructure projects

- by Dr. D S Subbramanyam, HoD, Geotechnical Engg Dept, NIRM

**Lunch Break:** 1:00 PM – 2:00 PM

**Session 2: 2:00 PM - 04:30 PM**

**Lecture 4:** Design and Construction of the incredible Chenab Bridge

- by Prof. G. Madhavi Latha, Department of Civil Engineering, IISc Bangalore

**Lecture 5:** Stability Analysis of Large Caverns in the Himalayas using Numerical Modelling and Instrumentation

- by Dr Sripad R Naik, HoD, Numerical Modelling Dept., NIRM

**Feedback & Valedictory:** 4:00 PM -04:30 PM

**High Tea:** 4:30 PM - 5:00 PM

The sessions will be held **hybrid mode**, i.e live lectures from the venue (IIT Tirupati) will be streamed via *Webex* to facilitate the participation of students from other Institutes.

Participants for this lecture series should register in advance,

**Registration Link**(No Registration Fee)

[https://nirm.in/lecture\\_registration.php](https://nirm.in/lecture_registration.php)

e-certificates will be issued to all the students who register and participate in the program





## Coordinators

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