



ADIKAVI NANNAYA UNIVERSITY

Rajahmundry - 533296

Chief Patron



Prof. M. Jagannadha Rao
Hon'ble Vice Chancellor

National Webinar
on

Recent trends in Rock Mechanics and Engineering Geology

DEPARTMENT OF GEOLOGY
UNIVERSITY COLLEGE OF SCIENCE AND TECHNOLOGY

Webinar Date & Time 07.08.2020 at 10 a.m.



Objective of the Webinar

The webinar is aimed at providing an overview of the emerging trends in Rock Mechanics and Engineering Geology especially for the students, researchers and Faculty of Geology, Geophysics, Petroleum Exploration, Geoinformatics, Geotechnical Engineering and Civil Engineering.

The topic is intended to help the students gain more insights about the natural materials like rock, soil and ground water, especially for identifying the suitable locations for construction of buildings, dams, highways, airfields, pipelines and tunnels, and also help design these structures.

About the Topic

Rock mechanics is the study of the mechanical behavior of subsurface sedimentary strata and rocks that are formed. The basic principle is that rock simply responds to stress by changing in volume or form due to the applied stress called strain. Engineering geology is one of the important subjects for structural engineers to understand as it helps them properly plan a project when considering the design, location, and other important geological factors. Engineering geology helps ensure a safe and cost-effective design for construction projects.

Learning Outcome

- Know about interface between geology and civil engineering.
- Learn about the advent of engineering geology as a specialized discipline.
- Understand different engineering geological investigations
- Identify problems of rock mass and founding ground.
- Suggest remedial measures for geo-engineering issues.

Schedule :

1. Inaugural Session: (10.00 - 10.30 AM)
 - Welcome address
 - Opening remarks
2. Speeches : (10.30 AM - 12 noon)
3. Valedictory Session: (12.00 Noon to 12.30 pm)
 - Closing remarks
 - Vote of thanks

Patrons



Dr. K. Ramaneshwari
Principal, UCST AKNU



Prof. B. Ganga Rao
Registrar

SPEAKERS



Dr. D. S. SUBRAHMANYAM
Chief Scientist & Head,
Geotechnical Engineering Division
National Institute of Rock Mechanics (NIRM),
Govt. of India, Bangalore

Title of Topic: "Rock Mechanics & Geotechnical investigations: Recent trends in Geology"
Rock mechanics is a theoretical and applied science of the mechanical behavior of rock and rock masses; compared to geology, it is that branch of mechanics concerned with the response of rock and rock masses to the force fields of their physical environment. The important rock mechanics investigations are including some in situ Geotechnical investigations which are an essential and integral part for the design of any engineering structure.

Title of Topic: "Rock Mass Classifications for Tunnelling and Underground Cavern"

The Q-value gives a description of the rock mass stability of an underground opening in jointed rock masses. High Q-values indicate good stability and low values means poor stability. The numerical value of the index Q-value and the six appurtenant parameter values give a description of the rock mass. Tunnel Quality Index can be used for the recommendation of support design of tunnels and large underground caverns. To evaluate the efficacy of the proposed support system, the capacity of support system can also be determined.



Dr. AJAY KUMAR NAITHANI
Scientist & Head
Engineering Geology Dept.
National Institute of Rock Mechanics, (NIRM),
Govt. of India, Bengaluru

ORGANIZED BY THE DEPT. OF GEOLOGY



Dr. K. Rokee Rajam,
Head of the Department, Convener

Prof. Y. Srinivasa Rao
Dr. K. V. Swamy
Dr. K. S. Peter

Dr. K. Sudha Rani
Dr. G. Appa Rao
Ms. D. V. Teja
Dr. S. Venkateswara Rao

Free Registration

All the participants have to register their names, for attending the Webinar

Registration Link : <https://forms.gle/1zhvJaQK9U88SiRD6>

Mode of Delivery : Live Web session

Contact number: +91 - 9110350467, email. knr.geo@aknu.edu.in;

Important recommendation: It is advised to login from 9 am onwards Dt. 7-8-2020 to avoid the last minute rush in being allowed by the host.

Webinar Etiquettes

1. During the Webinar the microphone should be in mute.
2. All the participants should be in Formal Dress and in a sitting position while the Webinar is underway.
3. If you have any questions for the speakers, clarifications needed from the speakers please post them in the chat box along with your name and affiliation.
4. As a mark of respect to the Dignitaries and speakers please do not cross talk while they are addressing or giving a talk.
5. All the participants should submit their feed back form through the link provided in the chat box at the End of the Webinar to get E-certificate

Click Here for Registration :: <https://forms.gle/VoAB3WWQpzB3X3XL8>