

INDUSTRIAL VISIT TO NATIONAL INSTITUTE OF ROCK MECHANICS (NIRM)

Department of Civil Engineering, MVJCE organized Industrial visit to National Institute of Rock Mechanics (NIRM), Outer Ring Road, Eshwar Nagar, Banashankari 2nd Stage, Bengaluru - 560 070, Karnataka, India on Wednesday (27.02.2019) and Thursday (28.02.2019) for 2nd year students (93 Students). The Faculty members Prof. R. Muralidhara, HOD-Civil, Prof. Shivakumar N V, Prof. Lakshmi V and Prof. N. Vetrivel accompanied the Visit in which one of our notable Alumni of MVJCE, Department of Civil Engineering Mrs. Praveena Das Jennifer, Scientist, NIRM helped on knowledge sharing and guided the students during the visit.

The main objective of the visit was to create awareness on Engineering Geological Investigation Techniques and its broader area of research in Seismology, Rock Testing, Fracture Mechanics, Numerical Modelling and Instrumentation. The National Institute of Rock Mechanics is an autonomous research Institute under the Ministry of Mines, Government of India, since 1988. NIRM is a premier centre for research and consultancy in the field of rock mechanics and rock engineering and is the only one of its kind in Southeast Asia. NIRM offers its expertise through following broad disciplines:

1. Engineering Geological Investigations
2. Engineering Geophysical Investigations
3. In-situ Geo-technical Investigations
4. Engineering Seismology & Seismotectonics
5. Rock Blasting and Excavation Engineering
6. Numerical Modelling and Instrumentation
7. Geo-mechanics and Ground Control
8. Material Testing & NDT

9. Rock Testing & Fracture Mechanics

Welcome address given by Dr. H. S. Venkatesh, Director of NIRM and followed lecture by Dr. D. S. Subramanya on significance of Geotechnical Engineers in rock mechanics, Underground Structural Construction and its different methods adopted to increase the durability, rock blasting and risk involved in excavation of soil underneath.



Industrial Visit: Department of Civil Engineering, Organized Two days Industrial Visit to NIRM during which Dr. D.S. Subrahmanyam, Head of Geotechnical Engineering Division, NIRM have detailed on various sectors of Investigations in rock mechanics to the students on 28th February 2019.

Further students were taken into the laboratory where all the instruments used for Site Investigation was placed. Mrs. Praveena Das Jennifer , Scientist, NIRM & Mr. A Rajan Babu gave an introduction on different instrumental setup which are used for recording the readings to check fractures underneath and strength or load bearing capacity of the soil.



Industrial Visit: Department of Civil Engineering, Organized Two days Industrial Visit to NIRM during which Mrs. Praveena Das Jennifer, Scientist, NIRM & Mr. A. Rajan Babu have detailed on different instrumental setups to the students on 28th February 2019.

Brief introduction were given on Engineering Seismology in which how to setup geophones and potentiometers reading are discussed in detail. Importance of seismology was explained with small glimpse of Numerical modeling.



Industrial Visit: Department of Civil Engineering, Organized Two days Industrial Visit to NIRM during which Mr. Shivakumar Cherukuri, Director, MSA & Engineering Seismology, NIRM have detailed on Application of Seismology to the students on 28th February 2019.



Industrial Visit: Department of Civil Engineering, Organized Two days Industrial Visit to NIRM during which Dr. A. K. Naithani & Dr. V. R. Balasubramanyam NIRM have detailed on Numerical Modeling of Engineering Geology to the students on 28th February 2019.

Finally, we would like to thank our Mr. Nagaraj Sitaram, Principal, MVJCE, Prof. M. Brindha, Vice-Principal, MVJCE, and Prof. R. Muralidhara, HOD-Civil, MVJCE for giving this opportunity to enhance the student's knowledge on different branches of Civil Engineering. The

knowledge gained by the students from this industrial visit will be helpful for their future endorsement.



Industrial Visit: Department of Civil Engineering, Organized Two days Industrial Visit to NIRM, Group Photo of MVJCE students team along with NIRM Exert Team on 28th February 2019.

EVENT OUTCOME: Through this students got an opportunity to explore their knowledge in new found direction of Civil Engineering through Interdisciplinary research. This satisfies partly with PO:4-Conduct Investigation on Complex Problems, PO:5-Modern Tool Usage and PO:12- Life Long Learning in the field of Civil Engineering.