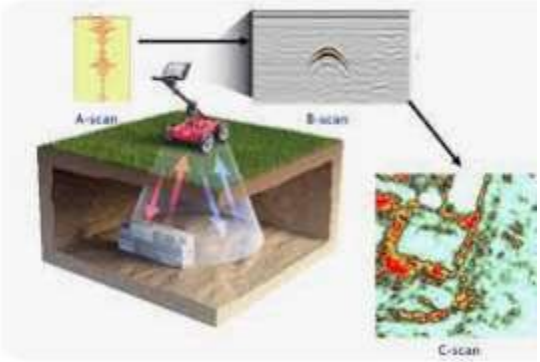
SELF SPONSORED

Short Term Training Programme on Application of Ground Penetrating Radar in Civil Engineering

April 08- April 12, 2024



ORGANIZED BY

Department of Civil Engineering
MAULANA AZAD
NATIONAL INSTITUTE OF TECHNOLOGY
BHOPAL 462003 (M.P.)

Patron

Dr.Karunesh Kumar Shukla
Director, MANIT, Bhopal

Convener

Dr. Mukul Kulshreshtha
Head of Department, Civil Engineering, , MANIT, Bhopal

Course coordinators

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Dr. Ruchi Khare
Dr. Suneet Kaur

MANIT, BHOPAL

Maulana Azad National Institute of Technology (MANIT) established in 1960, is the premier institute for technology in Central India. MANIT is one of the leading institution of national importance in the area of technical education. Established with the objective of developing a multi-disciplinary centre for technical education by strengthening both teaching and research activities besides contributing to the needs of rural community, society and industry at large.

PURPOSE OF THE COURSE

GPR is a non-destructive evaluation tool that is frequently used to investigate a variety of areas in the discipline of civil engineering. One of these areas entails the mapping of underground utilities, such as rail, walls, and road tunnels, as well as lines for telecommunication, electricity distribution, natural gas, water mains, and wastewater pipes. The diagnosis of roads, highways, airport runways, taxiways, ports, bridges, and industrial floors is another area. The field of applications of GPR in civil engineering also includes the development of mathematical models for predicting and simulating a wide range of problems.

The objective of this course on GPR is to make the participants familiar with basic as well advanced data acquisition, data processing and interpretation techniques to derive maximum amount of information from collected data. After completing this course, user should be able to collect the GPR data, carry out basic as well as advanced data processing of data and interpret the results in a range of application areas.

The program will enable the participant to derive maximum information from GPR data and help them to design the right GPR investigation program for a particular project requirement. It will also enable them to choose the right combination of antennas for varied geological conditions and resolution requirements. This course is ideally designed for engineers, academicians, researchers, practitioners, and students seeking current research on solving civil engineering problems using smart technology.

THE CONTENT OF THE WORKSHOP

- Suitability of GPR for a particular project
- Design of GPR survey to get maximum information
- Simple in-field processing of data
- Data processing and advanced processing from GPR data
- Use and theoretical aspects of various filters, migration, corrections etc.
- 3D processing of data
- QC checks on GPR data and results obtained through GPR contractors
- Application specific training on: Concrete and Pavement inspection, Sub surface Strata, Void Detection, Water Leakage and Ground Water detection

Mode of conduction of workshop will be hybrid

SPEAKERS

The experts/faculty from NIT, IIT and various Government Organization will be speakers.

PARTICIPANTS

The course will be useful for all faculty, working engineers, and Research Scholars. Certificate for attending the course will be provided to all participants.

REGISTRATION FEE

The Course fee is Rs500/-, The fee is to be paid online.

The registration fee is exempted for government officials.

Bank Name: State Bank of India,
Branch Name: MANIT, Bhopal
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Fee does not include accommodation. Institute may not provide accommodation for the participants.
Participants may join the work shop in online or offline mode.
Do not forget to capture transaction details and screenshot of transaction, which will be required to be uploaded during registration.
Note: Please clearly mentions in narration in remark column as “STCGPR - 2024” while making the payment.
The registration link is also given on our sitewww.manit.ac.in
The link for registration is provided as below
https://forms.gle/RyWxHxZ9TtaT7zxV8

CONTACT

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