

Field Visit to Construction Site and Wahrew Arch Bridge

Date of Visit: 05 February 2026

Organized by: Department of Civil Engineering, NIT Meghalaya



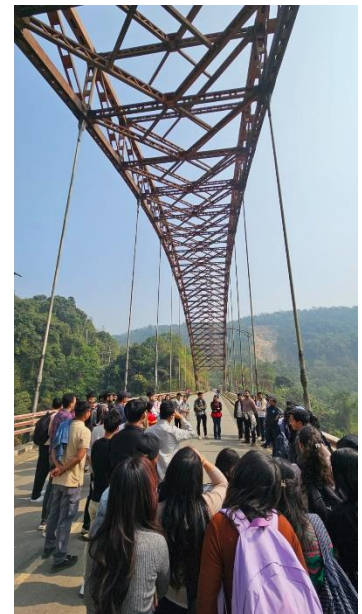
The Department of Civil Engineering, NIT Meghalaya, organized an academic field visit on 5th February 2026 for the students of B.Tech III Year, B.Tech IV Year, M.Tech I Year, and M.Tech II Year as part of the curriculum (For AY 2025-26) to enhance practical exposure and understanding of real-world civil engineering practices. The visit covered a construction site and the Wahrew Arch Bridge, with the objective of familiarizing students with structural detailing, bridge engineering concepts, and field-based testing techniques.

1. Visit to Wahrew Arch Bridge

The visit to the Wahrew Arch Bridge provided students with an opportunity to study an important infrastructure asset and understand the structural and functional aspects of arch bridge construction.

Key Technical Learnings:

- Students were briefed on the structural configuration and design concept of the bridge, including load transfer mechanisms, and support conditions.
- The importance of foundation design, abutments, and load distribution in arch bridges was explained in detail.
- Technical discussions were conducted on construction methodology, material selection, and challenges faced during execution in hilly terrain and high rainfall regions. Students observed the geometric alignment, drainage provisions, and safety features incorporated in the bridge.



2. Visit to Ongoing Construction Site

At the construction site, students were exposed to various aspects of building construction and structural engineering practices. Key Technical Learnings:

- Detailed explanation of structural components such as foundations, columns, beams, slabs, and reinforcement detailing was provided.
- Students observed reinforcement placement, shuttering/formwork systems, and concreting practices.
- Emphasis was given to quality control measures, including material testing, mix proportioning, curing practices, and site safety protocols.
- The importance of construction sequencing, supervision, and coordination among different teams was highlighted.



3. Non-Destructive Testing (NDT) Demonstration and Practice

A significant component of the field visit was the demonstration and hands-on exposure to Non-Destructive Testing (NDT) techniques.

Students were introduced to commonly used NDT method (Rebound Hammer Test) for concrete structures. Practical demonstration of NDT equipment was conducted to assess strength and quality of concrete without damaging the structure. Students participated in performing selected NDT tests under supervision and learned about data interpretation and field application. The role of NDT in condition assessment, quality assurance, and maintenance planning was explained.



