

## **Industrial Visit to Bhakra-Nangal Project (April 23, 2022)**

The Department of Civil Engineering has successfully organized the Industrial Visit to Bhakra Nangal Dam on 23<sup>rd</sup> April 2022 for BTech final year students. The visit was organized with prior permission and guidance of Honorable Director Prof. Binod Kumar Kanaujia , Head Training Dr. Ajay Gupta and Head of Department Dr. Hemant S Chore. The trip was coordinated by Dr. Mahesh Patel, Training officer Mr. Rohit Rana accompanied by Dr. Shashikant Sharma and Dr. Neelam Rani who played huge role in making the trip successful. The student coordinators Harleen Kaur, Jashanpreet Singh, Guduru Rishikesh Reddy and Deshraj have done the planning ,management and ensured maintenance of discipline during the trip.

The aim of visit was to get thorough insights of construction, working and maintenance of dams. Students were provided valuable knowledge by Er. Charanpreet Singh, Chief Engineer Bhakra Beas Management Board who is also an alumnus of NIT Jalandhar. With the help of a 3D model of dam, students were explained the details of structure of dam, instruments used to monitor health of dam, problems and future challenges of dam. The useful life of dam with respect to the life of reservoir and concrete was also discussed. The problem of silting of Gobind Sagar lake and the scope of future project to counteract this was also explained. Historical images from the construction of dam to the personalities that paid visit to the magnificent structure were shown at Nehru Centre.

At Nangal Dam,the students were given permission to visit the foundation gallery of the dam to get more detailed understanding of the structure, canal intakes and seepage measuring instruments.

The trip ended at Ganguwal Power House where students explored the working of turbines. Three Kaplan turbines were installed and the power generation capacity is 76 MW with head of nearly 93 feet.

The Industrial visit was a very knowledgeable experience for all the students which provided them insights of the real life implementation of the concepts studied in classroom.



1. Chief engineering Charanpreet Singh with Faculty and students at Nangal Dam





2. Nehru Centre, Bhakra Dam



3. Ganguwal Power House