



Webinar on Railway Engineering (Basic to Update)

Event Date: June 18th, 2021

Event Venue: Online

Organising unit/ agency/ collaborating agency: Deptt of Civil Engineering, UIET

Number of students participated in such activities: 43

Summary of Report: (Objective, highlights and snapshots like images should be included)

Objectives:

- **Introduce various types of surveys instruments required for railway track construction and maintenance in order to have safe and efficient train movements.**
- **Impart basic knowledge of railway track components and their functions.**
- **Introduce geometric design, points and crossings, track resistances, signaling and control system**
- **Learn advancement in railway stations, yards, modernization of railways and high speed trains.**



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You



Parveen K...



48 others



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Welding of rails

Purpose of welding:

- To increase the length of the rails
- To repair the worn out or damaged rails
- To build up worn out points and rails on the sharp curves

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REWISE STUDY



You



Parminder ...



42 others



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Instruments for Preliminary Survey

- (a) **Theodolite** for traversing and pegging the centre line
- (b) **Tacheometer** for plotting the main features
- (c) **Dumpy level** for taking the longitudinal and cross levels
- (d) **Plane table** for getting details of various features
- (e) **Prismatic compass** for measuring the magnetic bearings of a particular alignment

REWISE STUDY



You



vishal mahi



47 others



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Preliminary Survey

The preliminary survey consists of a detailed instrumental examination of the route to be selected as a result of the reconnaissance survey in order to estimate the cost of the proposed railway line. Based on the preliminary and traffic survey reports, the railway administration decides whether or not the proposed railway line is to be constructed.

REWISE STUDY



You



vishal mahi



46 others



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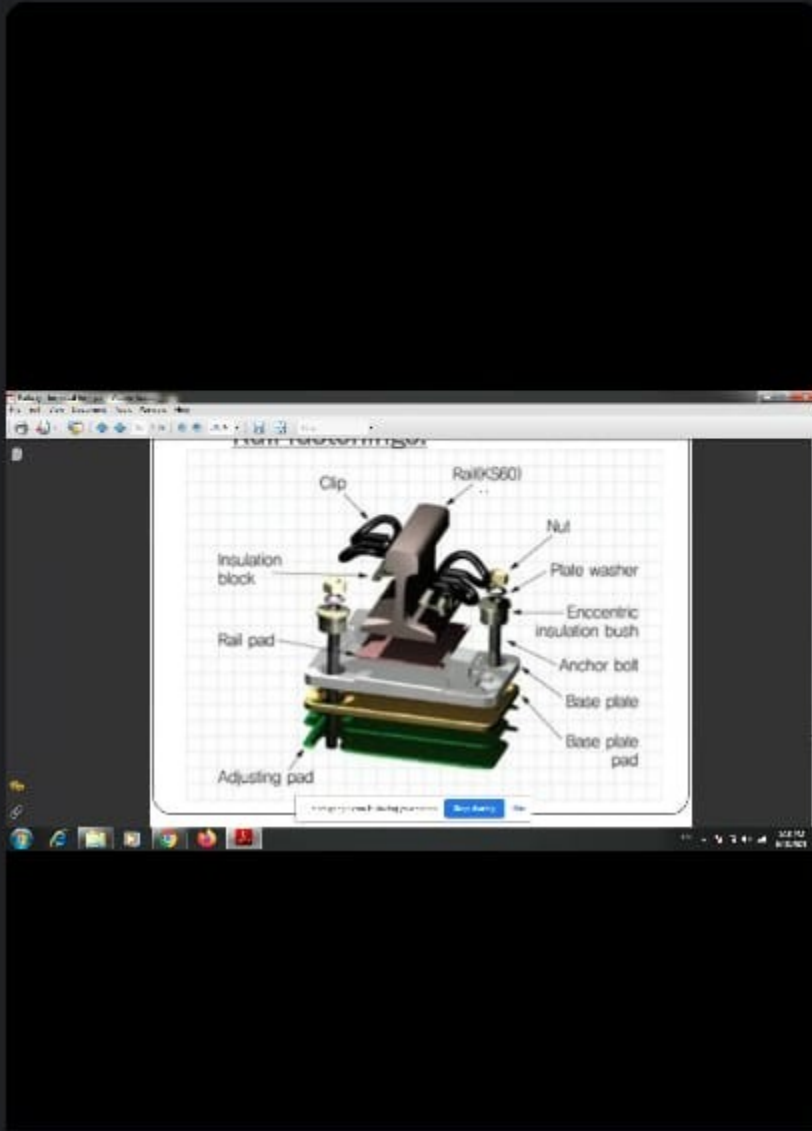
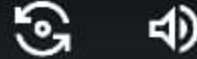
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Rd Singh joined

D You



P Parminder ...

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• Auto level
Used in levelling process of survey.

REWISE STUDY

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Jaspreet S...



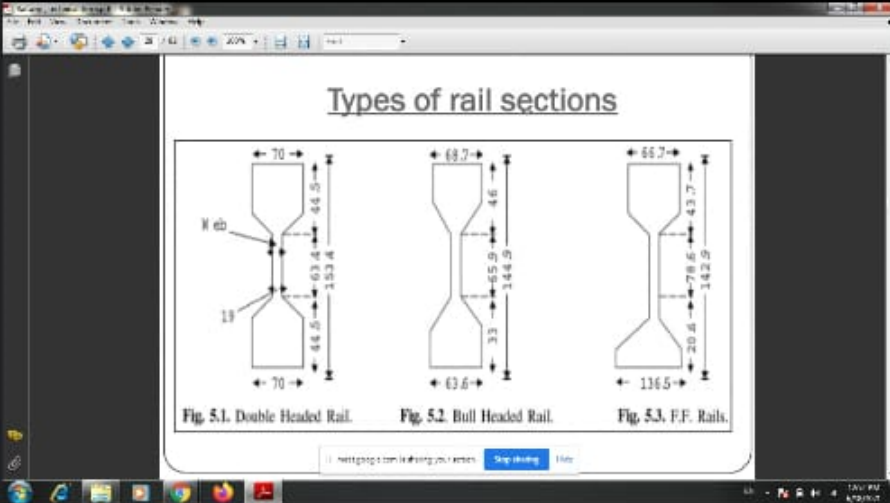
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