



RAJEEV INSTITUTE OF TECHNOLOGY
Plot 1-D, Growth Center, Industrial Area, B-M Bypass Road, Hassan, Karnataka 573201
Approved by AICTE- NEW DELHI, Affiliated to VTU – BELAGAVI



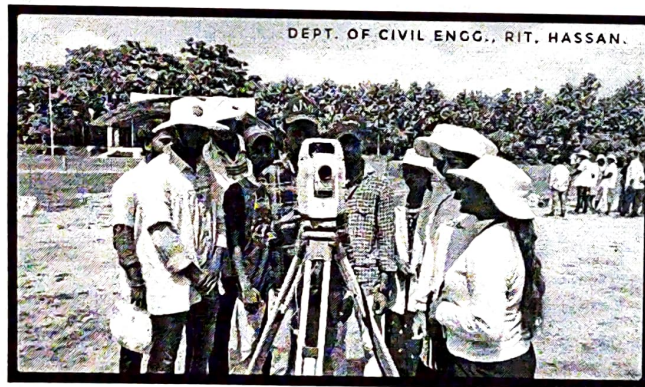
DEPARTMENT OF CIVIL ENGINEERING

REPORT ON FOUR DAY WORK SHOP

"E-Surveying using Total Station association with SSG greenways Pvt Ltd.,"

Date: 07th January 2021 to 10th January 2021

Event Co-ordinator
Mr. Raghunandan Yadav
Department of Civil Engineering
R.I.T, Hassan



Chief Patron
Dr.A.N RamaKrishna
Principal
R.I.T, Hassan

Convenor
Mr.Sujay.S
H.O.D
R.I.T, Hassan



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SYNOPSIS

Title: "E- Surveying using Total Station " from 07th January 2021 to 10th January 2021

Convenor: Mr. Sujay S, Assistant Professor and Head of Civil Engineering, RIT, Hassan

Faculty coordinators: Mr. Raghunandan Yadav, Assistant Professor, Dept. of Civil Engg, RIT, Hassan

Attendees: Pre-final year students

Organized by the Department of Civil Engineering, RIT, Hassan in association SSG greenways Pvt Ltd., Bangalore

1. Objective:

The objective of the workshop is to provide a hands-on training on the use of total station instrument and to present the data recorded in the total station in a graphical format.

2. Outcome:

After the successful completion of the workshop, the students would be able to use the total station instrument independently, and present the data recorded in graphical and tabular format.

3. Benefit to the students:

The benefit of the workshop is that the students will get an exposure to the modern technique of surveying, which is accurate and robust. They will acquire the knowledge of the working principle of total station and its operating procedure. The students will also be able to transfer the recorded data on to a computer and convert it to a presentable format.

4. Applications of E-Surveying with Total Station:

- **Land Development:** Accurate measurement of land parcels for planning and design purposes.
- **Construction Surveying:** Precise layout and measurement of structures during construction projects.
- **Topographic Mapping:** Creation of detailed maps for geological and environmental assessments.
- **Infrastructure Development:** Surveying for roads, bridges, and utilities with high precision.
- **Monitoring Structural Deformations:** Continuous monitoring of structures for any deformations or shifts.
- **Boundary Surveys :** Defining property boundaries with precision, reducing disputes and



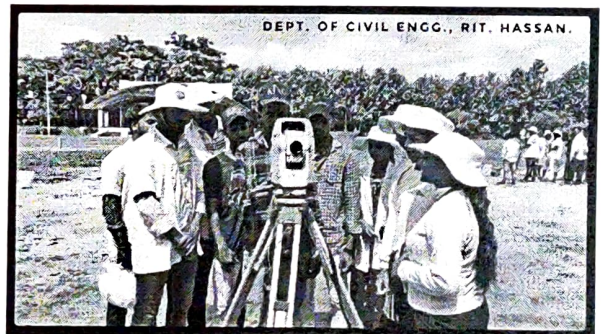
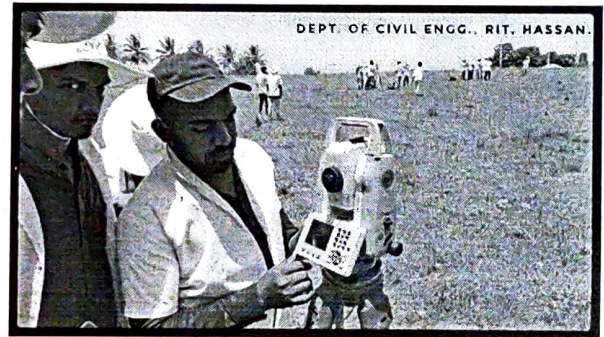
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legal issues.

5. Conclusions:

E-surveying using Total Station technology marks a significant advancement in the field of land surveying, offering precision, efficiency, and versatility. As technology continues to evolve, integrating Total Station with other emerging technologies like Artificial Intelligence and Augmented Reality holds the potential to further revolutionize the surveying industry, making it an exciting and dynamic field for the future.

Photos:



Signature of the Coordinator

Signature of the HOD
HEAD OF THE DEPARTMENT
Department of Civil Engineering
Rajeev Institute of Technology