INVITATION

RAJARAJESWARI
COLLEGE OF ENGINEERING
An Autonomous Institution

Under VTU, Belagavi Approved by AICTE, New Delhi & GoK
No. 14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru - 560074

DEPARTMENT OF CIVIL ENGINEERING
Organizing

One Day Workshop
'Hands on Training on Total Station'



30th Oct 2026

10:00 A.M. TO 4: 00 P.M.

Seminar Hall, RRCE

RESOURCE PERSON:

Dr. Amaranatha G A
ASSISTANT PROFESSOR
REVA UNIVERSITY
BENGALURU

Contact us

Phone
9008845678

Website
www.rrce.org

Dr. R. Balakrishna
Principal

Dr. Ramesh C
HoD – CVE

Program Co-ordinators
Mr. Manjunath N , Asst. Professor

4/11/2026
Principal
RAJARAJESWARI
COLLEGE OF ENGINEERING
Ramohalli Cross, Bengaluru-74

REPORT ON ONE-DAY WORKSHOP
"HANDS-ON TRAINING ON TOTAL STATION"

Date: 30 October 2026
Organized by: Department of Civil Engineering
Institution: Rajarajeswari College of Engineering (RRCE), Bengaluru

1. Introduction
The Department of Civil Engineering, Rajarajeswari College of Engineering (RRCE), Bengaluru, organized a one-day workshop on **"Hands-on Training on Total Station"** on 30 October 2026. The workshop aimed to provide students with practical knowledge of modern surveying instruments and their applications in civil engineering projects.

2. Objectives of the Workshop
The primary objectives of the workshop were:
- To introduce students to the principles and functions of a Total Station.
- To demonstrate the setup, leveling, and operation of the instrument.
- To provide hands-on experience in measuring horizontal angles, vertical angles, distances, and coordinates.
- To explain the applications of Total Station in construction surveying, setting out, contouring, and topographical surveys.
- To bridge the gap between theoretical knowledge and practical field applications.

3. Resource Person
The workshop was conducted by **Dr. Amarnath G. A., Assistant Professor, REVA University, Bengaluru**, who served as the resource person. He explained the fundamental principles of Total Station surveying, its components, operating procedures, and applications in modern civil engineering practices.

4. Proceedings of the Workshop
The workshop commenced with a welcome address and an introduction to the importance of advanced surveying techniques in civil engineering.
The resource person provided a detailed explanation of the Total Station instrument, including its major components, such as the electronic theodolite, electronic distance measurement (EDM) system, onboard data processor, and data storage facility.
The practical session covered the following activities:
1. Introduction to the instrument and its components.
2. Setting up the Total Station over a survey station.
3. Centering and leveling the instrument.
4. Measurement of horizontal and vertical angles.
5. Measurement of horizontal and slope distances.
6. Determination of coordinates and elevation differences.

7. Demonstration of setting out points for construction activities.
8. Discussion on field data collection, data transfer, and applications in construction projects.

Students actively participated in the hands-on training and gained practical exposure to the operation of the instrument. Their doubts regarding field procedures and surveying applications were clarified by the resource person.

5. Outcomes of the Workshop

The workshop helped students to:

- Understand the working principles and components of a Total Station.
- Develop practical skills in instrument setup, centering, and leveling.
- Gain knowledge of angle and distance measurements.
- Understand coordinate determination and construction setting-out procedures.
- Appreciate the role of modern surveying instruments in infrastructure development.
- Improve their confidence in performing field surveying activities.

6. Conclusion

The one-day workshop on **"Hands-on Training on Total Station"** was a valuable learning experience for the students of the Department of Civil Engineering. The combination of theoretical explanations and practical demonstrations helped students understand the operation and applications of Total Station in modern surveying and construction projects.

The Department of Civil Engineering, RRCE, expresses its sincere gratitude to **Dr. Amarnath G. A.** for sharing his knowledge and expertise and thanks the college management, faculty members, and students for their support and participation in making the workshop a meaningful academic activity.

Report Prepared by:

Mr. Manjunath N.Assistant Professor,
Department of Civil Engineering
Rajarajeswari College of Engineering, Bengaluru

Principal
RAJARAJESWARI
COLLEGE OF ENGINEERING
Ramohalli Cross, Bengaluru-7

GLIMPSE OF WORKSHOP



Fig.1: Inaguration of the Program



Fig. 3:Session by chief guest Dr. Amaranatha G A, Assistant Professor, Reva University





Fig.4: Hands on training Field Photos

GLIMPS OF PHOTOES



4/11/2026
Principal
RAJARAJESWARI
COLLEGE OF ENGINEERING
Bengaluru-74

RESOURCE PERSON PROFILE



BIO-DATA	
Name of staff	Dr. Amaranatha G A (REVA01730)
Date of birth	09 .07.1992
Department	School of Civil Engineering
Designation	Assistant Professor
Date of Joining	05.07.2018
PAN Number	BMWPA1961P
AADHAR Number	8657 1861 8934
Mother's name	Sujathamma
Father's name	Anjaneyappa G V
Religion and caste	Hindu and Kuruba

Educational details

Course	Name of the Institute	Year of passing	Performance
SSLC	Kissan Rural High School, Kadadanamari (Post), Chintamani (Taluk),Chickballapur (District)	2007	82%
PUC	Royal PU college, Chintamani.	2009	65%
BE (Civil Engineering)	Nagarjuna College of Engineering & Technology, Bangalore.	2013	67%
M.Tech (Transportation Engineering)	REVA Institute of Technology & Management, Bangalore.	2015	72%
Ph.D (Civil Engineering)	REVA University, Bengaluru	2026	Awarded

Work experience

Experience (Teaching)	11+ years of teaching, research, academic administration and institutional coordination. Assistant Professor, REVA University (July 2018-Present); formerly Assistant Professor, Nagarjuna College of Engineering & Technology (Aug. 2015-July 2018).
Experience (Research)	NIL
Experience (Industry)	NIL
Subjects taught	Highway Engineering; Pavement Materials and Design; Traffic Engineering; Transportation Planning; Pavement Evaluation and Rehabilitation; Remote Sensing & GIS; Surveying; Railways, Airways, Waterways & Tunnels; Building Materials and Construction; Engineering Mechanics and Engineering Drawing.

Publications

International	8 journal papers, including publications in Scopus/WoS-indexed Q1 and Q2 journals. Recent work covers lime-, guar-gum- and xanthan-gum-stabilized micaceous soils, pavement/traffic engineering and concrete materials.
National	6 Indian patent applications in geotechnical and transportation engineering (2022-2025).
Conferences	4 conference publications/presentations, including an AIP Conference Proceedings paper (2026) and ICRRETCE presentations (2019).

Memberships to professional bodies

AMERICAN SOCIETY OF CIVIL ENGINEERS – **Membership ID: 11679407**

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#11, Balareddyhalli (V),
Chintamani (T)Chikballapur (D),
Karnataka – 563 123.

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e-mail id amarnathaga008@gmail.com
amaranatha.ga@reva.edu.in

CIRCULAR

MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST
Rajarajeswari College of Engineering
(An Autonomous Institution underVisvesvaraya Technological University, Belagavi)
Department of Civil Engineering

Ref: RRCE/CV/2026-27 /01 Date: 29/10/2026

CIRCULAR

This is to inform all students that the Department of Civil Engineering is organizing a **one-day workshop on "Hands-on Training on Total Station" on 30/10/2026 (Friday).** 9am to 4 pm All students of the **3rd and 5th semesters** are hereby informed to attend the workshop and actively participate in the training programme.

All concerned students are instructed to be present on time and make the best use of this opportunity to gain practical knowledge and hands-on experience in Total Station surveying.

Coordinator 29/10

HOD 29/10/26

Principal 4/11/2026
RAJARAJESWARI
COLLEGE OF ENGINEERING
Ramohalli Cross, Bengaluru-74

Professor & HOD 04/11/26
Department of Civil Engineering
RAJARAJESWARI COLLEGE OF ENGINEERING
Bengaluru-74

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Phone:+91-80-28437124 / 28437375 Email Id: hodra@rrce.org Website: https://www.rrce.org

STUDENT ATTENDANCE

MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST
Rajarajeswari College of Engineering
(An Autonomous Institution underVisvesvaraya Technological University, Belagavi)
Department of Civil Engineering

Date: 30.10.2026

STUDENT ATTENDANCE

Type of Event :	One-Day Workshop on "Hands-on Training on Total Station"
Resource Person :	Dr. Amarnath G A, Assistant Professor, Reva University, Bengaluru

3rd SEM

Sl No.	Student Name	USN	Signature
1	ADARSHA K B R	1RR25CV001	
2	HIMAVANTH H G	1RR25CV003	
3	PAVAN KUMAR M	1RR25CV004	
4	PREETHAM B S	1RR25CV005	
5	SAGAR H R	1RR25CV006	
6	DHANUSH C	1RF26CV400-T	
7	PRANAV SANJAY JAMAKHANDI	1RF26CV401-T	
8	VARSHANTH L GURUVAPPA	1RF26CV402-T	
9	MANOJKUMAR M	1RF26CV403-T	
10	Darshan V	COB	AB

5th SEM

Sl No.	Student Name	USN	Signature
1	ANANYA K R	1RR24CV001	
2	CHINMAYI J K	1RR24CV002	
3	MANOJ	1RR24CV004	
4	SANGAMESH	1RR24CV005	
5	SIDDU	1RR24CV007	
6	KUSHAL N	1RR25CV402	AB
7	SHREYAS GOWDA U P	1RR25CV403	
8	SUDARSHAN B	1RR25CV404	
9	VENKATESH H	1RR25CV405	
10	Y BALAJI	1RR25CV406	AB

Coordinator

Principal
RAJARAJESWARI
COLLEGE OF ENGINEERING
Bengaluru-74

HOD
Professor & HOD
Department of Civil Engineering
RAJARAJESWARI COLLEGE OF ENGINEERING
Bengaluru-74

Date: 30.10.2026

FEED BACK REPORT OF THE WORKSHOP


Questions Responses 13 Settings

Feedback Form Hands-on Training session on Total Station Surveying

Resource person: Dr. Amaranath G A, AP, Reva University, Bengaluru

Rajarajeswari College of Engineering (RRCE)

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Student Name *

Short answer text

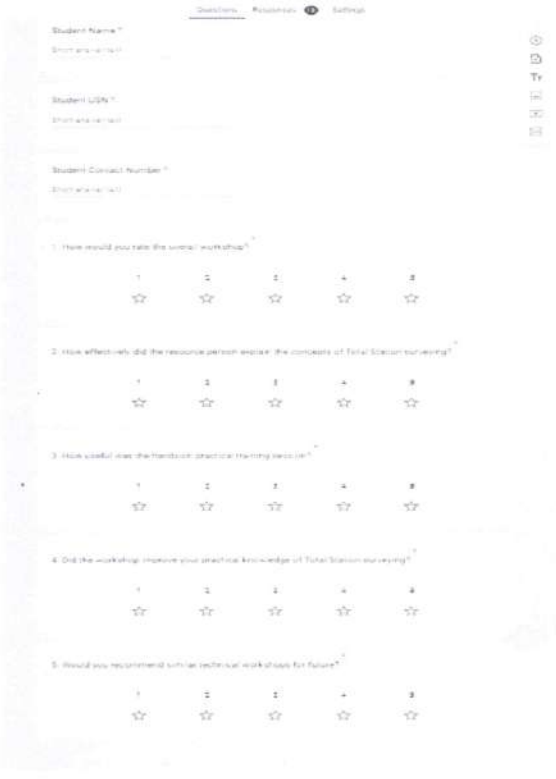
Student USN *

Short answer text

Student Contact Number *

Short answer text

1. How would you rate the overall workshop? *


Questions Responses 13 Settings

Student Name *

Short answer text

Student USN *

Short answer text

Student Contact Number *

Short answer text

1. How would you rate the overall workshop? *

1 2 3 4 5

2. How effectively did the resource person explain the concepts of Total Station surveying? *

1 2 3 4 5

3. How useful was the hands-on practical training session? *

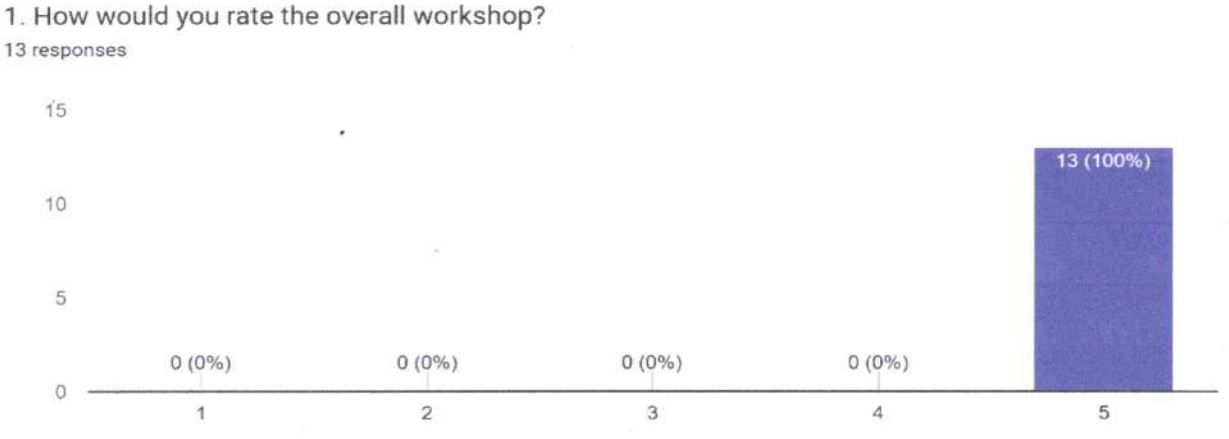
1 2 3 4 5

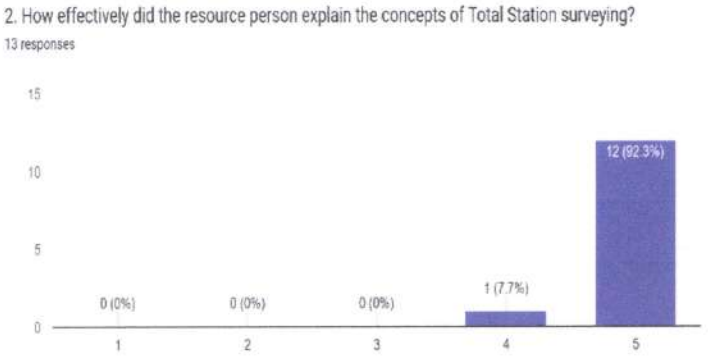
4. Did the workshop improve your practical knowledge of Total Station surveying? *

1 2 3 4 5

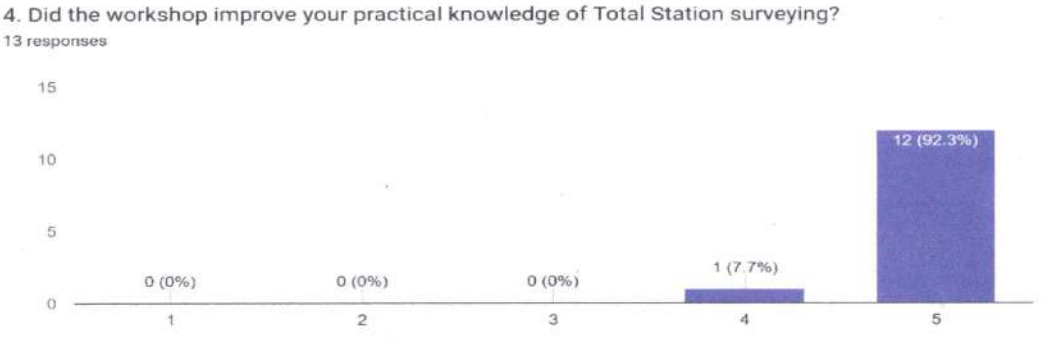
5. Would you recommend such technical workshops for future? *

1 2 3 4 5









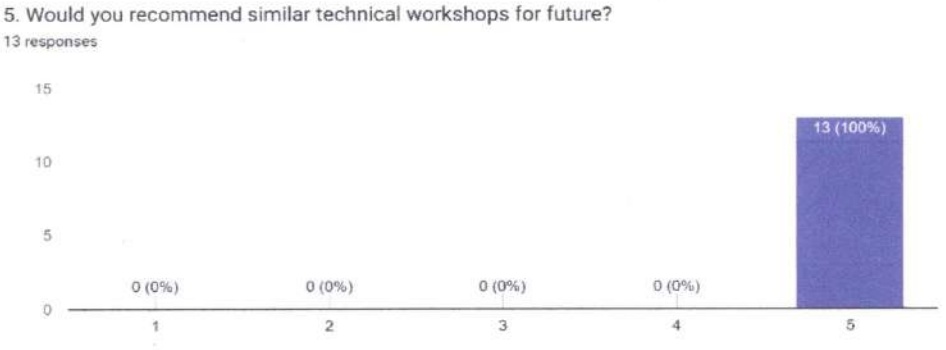


Fig.5: Feed Back Report with Bar graphs

4/11/2016
Principal
RAJARAJESWARI
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