

RISL KRISHNA SAI GANDHI GROUP OF INSTITUTIONS:: ONGOLE



# Certificate program

On

“TOTAL STATION”

Date: 17<sup>th</sup> to 21<sup>st</sup> September-2019

ORGANIZED BY

DEPARTMENT OF CIVIL ENGINEERING

A handwritten signature in blue ink, appearing to read 'V. S. S. S.', is written over a green scribble.

PRINCIPAL  
RISE KRISHNA SAI GANDHI  
GROUP OF INSTITUTIONS  
VALLURU:: ONGOLE.



**RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS**

(Approved by AICTE-NEW DELHI, Affiliated to JNTUK KAKINADA)

NH-16, Valluru -523272, Ongole, Prakasam District, A.P, India.

**DEPARTMENT OF CIVIL ENGINEERING**

VALLURU,

DATE: 06.09.2019

To

**Mr.POOJIT**

Senior Trainer Pavan Survey Engineering & Assosiation,  
Hyderabad.

Dear Sir,

**Subject: We would like to invite you to conduct a Certificate Programme on "TOTAL STATION" from 17-09-2019 to 21-09-2019.**

Greetings from RISE Krishna Sai Gandhi Group of Institutions, Ongole.

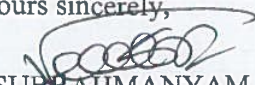
The RISE Institutions started functioning from the academic year 2009-10 and offering undergraduate courses in several engineering branches namely CE, CSE, ECE.

As per the discussion with **Mr.Mallikarjun, Professor, HOD, CE Department** of our Institute, I hereby take this opportunity to invite you to share your knowledge on **"TOTAL STATION"** from **17-09-2019 to 21-09-2019**.

You are requested to interact and provide guidance to our II B.Tech students, who are looking forward to their bright career ahead. I will feel honored by your gracious presence at our organization. I believe that your presence will help our students and faculty members to explore knowledge.

Thanking you in anticipation.

  
**PRINCIPAL**  
**RISE KRISHNA SAI GANDHI**  
**GROUP OF INSTITUTIONS**  
**VALLURU:: ONGOLE.**

Yours sincerely,  
  
**Dr.K.V.SUBRAHMANYAM**  
Principal  
**PRINCIPAL**  
**RISE KRISHNA SAI GANDHI**  
**GROUP OF INSTITUTIONS**  
**VALLURU:: ONGOLE.**



## RESUME

**Mr. POOJII M.E, SENIOR TRAINER.**

NO: 88  
NEAR GOKUL CHAT  
KING KOTI  
ABIDS  
HYDRABAD-500001  
TELANGANA  
8870000373,  
trinpoojith1@gmail.com.

### **OBJECTIVE**

Seeking a challenging career in Educational Institution, which provides an opportunity for learning and improving my skills? To utilize my skills in a progressive environment, in a manner that will provide immediate and profitable solutions to my Employer.

### FAVOURITE QUOTE

**“A GOOD TEACHER CAN CHANGE EVERYTHING”**

### **1. ACADEMIC & PROFESSIONAL QUALIFICATIONS**

Course (Exam passed)	Institution	University	Year of passing	Class	Percentage	Full Time / Part Time
SSLC	GBHSS	STATE BOARD	1999	FIRST CLASS	73	Full Time
HSC	GBHSS	STATE BOARD	2001	FIRST CLASS	84	Full Time
B.E-CIVIL	ESEC	ANNA UNIVERSITY	2005	FIRST CLASS	68	Full Time
M.E-CIVIL	NEC	ANNA UNIVERSITY	2008	FIRST CLASS WITH DISTINCTION	78	Full Time

### **2. PROFESSIONAL AFFILIATIONS**

- Life Member in Indian Society for Technical Education [LM55881]
- Member in International Association of Engineers in [MI15335]
- Member Civil Teacher Association [ 80343347]
- Member International Association of Civil Engineering.



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### 3. ACADEMIC EXPERIENCE-(Total-11 Years So far)

ACADEMIC EXPERIENCE				
S.No	Name & Address of the Employer	Designation	Period	Responsibilities
1	Pavan Survey Engg. & Association, Hyderabad	Sr.Trainer	2015- Till Date	<ul style="list-style-type: none"> <li>CLASS LECTURING</li> <li>ADMISSION CELL INCHARGE</li> <li>PLACEMENT COORDINATOR</li> <li>ALL SCHOLARSHIP INCHARGE IN EGI</li> </ul>
2	SRM ENGINEERING COLLEGE NH-47, Salem Main Road, Pallakkapalayam-637 303 Komarapalayam	ASSISTANT PROFESSOR	14.06.2012 TO 02.07.2018	<ul style="list-style-type: none"> <li>CLASS LECTURING</li> <li>ADMISSION CELL INCHARGE</li> <li>PLACEMENT COORDINATOR</li> <li>ALL SCHOLARSHIP INCHARGE IN EGI</li> </ul>
3	GBIT Thiruchengode	LECTURER	27-06-2011 TO 04-05-2012	<ul style="list-style-type: none"> <li>CLASS LECTURING</li> <li>DEPARTMENT ACTIVITY COORDINATOR</li> </ul>
4	MIC COLLEGE OF TECHNOLOGY Erode	LECTURER	06-06-2008 TO 15-06-2011	<ul style="list-style-type: none"> <li>CLASS LECTURING</li> <li>CLASS ADVISOR</li> <li>FACULTY ADVISOR</li> <li>COMPUTER LAB INCHARGE</li> </ul>
5	RGV Avinashi	LECTURER	30-06-2005 TO 15-09-2006	<ul style="list-style-type: none"> <li>CLASS LECTURING</li> <li>CLASS ADVISOR</li> </ul>

### 4. PUBLICATION OF PAPERS IN NATIONAL / INTERNATIONAL JOURNALS

S. No	Author	Paper Title	National / International Journal
1	POOJII	Allowing and Storing of Authorized and Unauthorized Database User According to the Policy Verification and Validation of Distributed Firewall under the Specialized Database	International journal of Computer Application. Vol. No. 1, Article-7 Pages 37 - 41, 2010
2	POOJII	Developing and Enhancing the method of distributed Firewalls monitoring database in home user system	Internal Journal of Mathematical Sciences and Applications, vol.1, no. 3, Mind Reader Publications
3	POOJII	Policy Verification, Validation and Troubleshooting in Distributed Firewalls	International Journal of Computer Science and Information Security, vol. 9, no.10, 2011
4	POOJII	Establishing a valuable method of packet capture and packet analyzer tools in firewall	International Journal of Research Studies in Computing, 2012 April, vol. 1, no. 1, pp. 11-20.
5	POOJII	Enhancement of Firewalls Decision And Binary Tree Diagram Design	Academic science.co. In., 2015
6	POOJII	A Unified Approach to Detect the Record Duplication Using BAT Algorithm and Fuzzy Classifier for Health Informatics	Journal of Medical Imaging and Health Informatics, 2015/12/1, vol. 5, PP.1121-1132
7	POOJII	Performance Analysis of Malignant Packet Detection in distributed Firewall	International Journal of control theory and applications, volume 10, No. 12, PP.299-305, impact factor-0.53, 2017
8	POOJII	A Performance Analysis of Malicious Packet Detection in Firewall using Similarity Index Algorithm	International Journal of Advanced Science and Technology Communicated to International Journal Editor

### 5. AWARDS RECEIVED

- Selected a **BEST TEACHER AWARD** and **CERTIFICATE OF EXCELLENCE** from Excel Group Institutions, Komarapalayam, Tamilnadu, India.(2016-17)
- Received the **APPRECIATION CERTIFICATES** from Excel Group Institutions, Komarapalayam, Tamilnadu, India.(2013-14, 2014-15)

  
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## 6. OTHER ACHIEVEMENTS

1. Examiner for B.E (civil engg.), MCA of Karpagam University, Autonomous Institutions, Madras University and Anna University
2. Question paper setter and Examiner for B.E.. (Civil Engg & Technology) of Madurai Kamaraj University, University of Madras and Dr.M.G.R.University.

## 8. EDITOR AND REVIEWER'S IN JOURNAL AND CONFERENCES

1. Editorial Board member for Civil Engineering and Informatics published by World Academic Publication
2. Editorial Board member for International Journal of Civil.
3. Reviewer for International Journal of Engineering and Technology (IJET)
4. Reviewer for British Journal of Mathematics and computer Science.

## 9. WORKSHOP/ CONFERENCES CONDUCTED/ ORGANIZED /ATTENDED

1. Organized a three days International Conference on Computational Intelligence and Its Applications (ICCIA – 2012) at Vivekanandha Institute of Engineering and Technology for Women, Tiruchengode, on March 1 – 3, 2012.
2. Participated International Conference on Advanced Computing held at CHENNAI.
3. Attended several workshop courses on the following topics:
  - a. Civil Design
  - b. Surveying Trainer
4. Actively involved in organizing technical seminars for students at state / National level and also organized courses for Professionals such as Doctors/School teachers/Engineers etc on special topics.

## 10. OTHER INFORMATION

1. Having through knowledge of Installing, maintaining, servicing of computer systems and peripherals.
2. Active member in state-level technical symposium.
3. Contributed several work like Overall Scholarship Coordinator and Admission cell In charge
4. Coordinated the Education Guidance and Exhibition Events at college level
5. Coordinated the Readmission and Transfer students at college level
6. Actively involved in preparation of reports for AICTE and university committees.
7. Department Library In-charge
8. Have guided more than thirty B.E Projects. Guided five M.E/M.Tech thesis for Anna University and four M.Phil thesis for Madurai Kamaraj University.

  
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9. Working as academic coordinator of the institute which involves preparation of academic program, work load distribution, conducting internal and university examinations, admission work and student counseling etc.
10. Acted as Anna University Representative (AUR) for conduct of university examination at Zone - 10 Colleges.
- 11 Examiner for R.F. (Civil Engg), of Madurai Kamaraj University, Manonmaniam Sundaran University, Madras University and Anna University.

#### 11. PERSONAL DETAILS

- |                                |                            |
|--------------------------------|----------------------------|
| 1. Name of the Candidate       | : POOJII                   |
| 2. Date of Birth & Age         | : 15.04.1985.              |
| 3. Father's Name               | : RAMA RAO                 |
| 4. Sex                         | : Male                     |
| 5. Marital Status              | : Married                  |
| 6. Spouse Name & Qualification | : SWAPNA .A M.E            |
| 7. No. of Children             | : Two (Studying Level-III) |
| 8. Nationality                 | : Indian                   |
| 9. Passport details            | : G8256298                 |

#### DECLARATION

I hereby declare that all the statements made in this application are true complete and correct to the best of my knowledge and belief.

Place:

Date:

Signature of the Candidate  
(POOJII)

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NH-16, Valluru -523272, Ongole, Prakasam District, A.P, India.

**DEPARTMENT OF CIVIL ENGINEERING**

VALLURU,

DATE: 13.09.2019

**CIRCULAR**

This is to inform II B.Tech students and faculty that there will be an Certificate Program on **“TOTAL STATION”** Software from 17/09/19 to 21/09/19 by **Mr.POOJIT**, Senior Trainer Assistive Cadd, Hyderabad, India.

  
HOD

**HEAD OF THE DEPARTMENT**  
Dept. of CIVIL Engineering  
RISE Krishna Sai Gandhi Group  
Institutions, VALLURU, A.P. -523 272

Copy to:  
Principal  
Staff Circular  
Students of CIVIL II III and IV years  
CIVIL Department Notice Boards

  
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## RISE KRISHNA SAI GANDHI GROUP OF INSTITUTIONS

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NH-16, Valluru -523272, Ongole, Prakasam District, A.P, India.

### DEPARTMENT OF CIVIL ENGINEERING

A FIVE DAY CERTIFICATE PROGRAM ON TOTAL STATION			
ASSESSMENT MARKS			
AY: 2019-20		Year & Semester: II-I	Date: 17-09-2019
S.NO	ROLL.NO	NAME OF THE STUDENT	MAX.MARKS(20)
1	188B1A0101	BODDU VYSHNAVI	16
2	188B1A0102	KAKUMANI MANJU	17
3	188B1A0103	MENDA MALAVIKA	17
4	188B1A0104	SUDARSI ANUSHA	18
5	188B1A0105	TUMBETI ASWANI	16
6	188B1A0106	VEERAMALLI BRAHMARDHANA	18
7	188B1A0107	VEMULAPALLI RENUKA CHOWDARY	18
8	188B1A0108	AYINAMPUDI RAVI	17
9	188B1A0109	DUDEKULA CHINNAKASAIH	19
10	188B1A0110	EEDUMUDI SAI KUMAR	17
11	188B1A0111	JADA AKHIL KUMAR	16
12	188B1A0112	KALIBOGU VENKATA VAMSI	18
13	188B1A0113	KOPPOLU SURYA TEJA	17
14	188B1A0114	KOTA SIVA KUMAR	17
15	188B1A0115	MADDI JAI GANESH VENKATA NAGA PAVAN	16
16	188B1A0116	MEDIBOINA NARENDRA	18
17	188B1A0117	PUVVADI VENKATA RAO	16
18	188B1A0118	SWARNA VIGNESWARA RAO	16
19	188B1A0119	TAPPETA TEJASSU	19
20	188B1A0120	THUMMALA MANIKANTA	17
21	188B1A0121	VEERAVARTHI YASWANTH	18
22	188B1A0122	VENGAIAH TIPPABATTINA	17
23	188B1A0123	YARLAGADDA ABHIVARDHAN	16
24	188B1A0124	SUNNAPU VASANTHA RAO	16
25	198B5A0101	KOPPOLU KOMALI	15
26	198B5A0102	ORUGANTI SANDYA	18

  
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27	198B5A0103	BILLA ANJANEYULU	19
28	198B5A0104	BIRUDALA RAJA	18
29	198B5A0105	CHALLA PAVAN KALYAN	18
30	198B5A0106	CHALUVADI SREENADH	15
31	198B5A0107	CHUNDI THULASIRAM	17
32	198B5A0108	DASARI DEVADAS	16
33	198B5A0109	DIGUDU NARASIMHA RAO	16
34	198B5A0110	GOLLA VAMSI	17
35	198B5A0111	INUKOLLU SIVA LINGA REDDY	18
36	198B5A0112	JANAPARAPU DEEPAK	16
37	198B5A0113	KASIREDDY SIVA REDDY	15
38	198B5A0114	KATTA SAI	18
39	198B5A0115	KATTA SATISH	17
40	198B5A0116	KISHTAPARAPU SAI RANGA	17
41	198B5A0117	KUNCHALA VENKATA RAJU	16
42	198B5A0118	LOMADA BALAJI	18
43	198B5A0119	MEDIDA SUBHANI	17
44	198B5A0120	PALETI AJGAI	GA
45	198B5A0121	PERLA SAI MANI KANTA	15
46	198B5A0122	SRIRANGAPURI SAI	18
47	198B5A0123	TELLA OBEDU	19
48	198B5A0124	TUPAKULA SIDDAIAH	16
49	198B5A0125	UPPALAPATI AKHIL KUMAR	15
50	198B5A0126	VUTUKURI YESUBABU	17
51	198B5A0127	YARRAGUNTLA SATHISH	18
52	198B5A0128	KANCHUGATLA GALAIAH	17
53	198B5A0129	TARIGOPULA PAVAN KUMAR	16
54	198B5A0130	GUMMADI NAVYA	18

CO-ORDINATOR

HOD

  
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HEAD OF THE DEPARTMENT  
Dept. of CIVIL Engineering  
RISE Krishna Sai Gandhi Group  
of Institutions, VALLURU, A.P. 523 272



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NH-16, Valluru -523272, Ongole, Prakasam District, A.P, India.

### ASSESSMENT TEST ON TOTAL STATION

Objective Type Questions Each Question Carries One Mark Max Marks: 20

1. In total station, data is stored in [ ]  
a) Pen drive b) Data card c) Micro processor
2. Compensator can make complete adjustments in total Station [ ]  
a) True b) False
3. Vertical angle is measured in the total station as Zenith angle. [ ]  
a) False b) True
4. Which of the following indicates the formula [ ]  
a)  $S = H (\sin z)$  b)  $H = S * S (\sin z)$  c)  $H * H = S (\sin z)$  d)  $H = S (\sin z)$
5. When total station is sighted to the target which of the operation acts first [ ]  
a) Rotation of optical axis b) Rotation of vertical axis c) Rotation of horizontal axis  
d) Rotation of line of collimation
6. Which of the following is combination of total station [ ]  
a) Theodolite, compass b) Theodolite, EDM c) Electronic theodolite, EDM  
d) EDM, GPS
7. Which among the following doesn't indicate the basic calculation of the total station?  
a) Horizontal distance b) Slope distance  
c) Vertical distance d) Co-ordinate calculations [ ]
8. What is maximum accuracy of ODM devices? [ ]  
a) 1 in 100 b) 1 in 10000 c) 1 in 1000 d) None of the above
9. In which direction it is best place the total station or obtaining the best output? [ ]  
a) East b) West c) South d) North
10. The data obtained from total station can be used in which among the following software directly? [ ]  
a) Primavera b) STAAD PRO c) Autodesk Revit d) Surfer
11. Calculation the elevation difference if the vertical distance is 14.89m, instrument height is 9.2m, ground is at 2.8m. [ ]  
a) 21.29 m b) 12.29 m c) 21.92 m d) 41.29 m

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NH-16, Valluru -523272, Ongole, Prakasam District, A.P, India.

12. Find the vertical distance if the value of slope distance can be given as 12.98 and nth angle is  $1^{\circ} 23'$ . [ ]

- a) 21.97m    b) 12.97m    c) 12.79m    d) 21.79m

13. The elevation of ground beneath the reflector, if the known elevation of instrument is 12.76m, slope distance =3.76m, angle is about  $3^{\circ} 43'$ , instrument height=2.93m, ground is at 0.987m. [ ]

- a) 18.54m    b) 81.54m    c) 18.45m    d) 18.97m

14) How many types of EDM instruments are there based on Wavelength? [ ]

- a) 2    b) 4    c) 5    d) 3

15. Which of the below is used up to a range of 100km? [ ]

- a) Infrared    b) Microwave    c) Visible range    d) Ultra-violet

16).A total station is a combination of: [ ]

- a) EDM and Theodolite    b) Compass and EDM  
c) Electronic Theodolite and EDM    d) EDM and electronic Compass

17).Which unit in total station processes data collected? [ ]

- a) Data collector    b) EDM    c) Storage system    d) Microprocessor

18).The bubble in a total station is centralized using: [ ]

- a) Tripod    b) Leveling screw    c) Tangent screw    d) Foot screw

19).Which of the below is not an application of total station? [ ]

- a) Crime scene investigation    b) Furniture manufacture    c) Mining    d) Archaeology

20). How many types of EDM is there based on the reflector type? [ ]

- a) 3    b) 5    c) 4    d) 2

  
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### TOTAL STATION KEY SHEET

1. (C) Micro processor
2. (B) False
3. (B) True
4. (D)  $H=S(\sin z)$
5. (A) Rotation of optical axis
6. (C) Electronic theodolite, EDM
7. (B) Slope distance
8. (B) 1 in 10000
9. (D) North
10. (D) Surfer
11. (A) 21.29 m
12. (B) 12.97m
13. (C) 18.45m
14. (D) 3
15. (B) Microwave
16. (C) Electronic Theodolite and EDM
17. (D) Microprocessor
18. (A) Tripod
19. (B) Furniture manufacture
20. (A) 3

  
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NH-16, Valluru -523272, Ongole, Prakasam District, A.P, India.

188BIA0122

## ASSESSMENT TEST ON TOTAL STATION

Objective Type Questions Each Question Carries One Mark Max Marks: 20

17  
20

1. In total station, data is stored in [ C ]  
a) Pen drive b) Data card c) Micro processor
2. Compensator can make complete adjustments in total Station [ B ] ✓  
a) True b) False
3. Vertical angle is measured in the total station as Zenith angle. [ B ] ✓  
a) False b) True
4. Which of the following indicates the formula [ C ] X  
a)  $S = H (\sin z)$  b)  $H = S * S (\sin z)$  c)  $H * H = S (\sin z)$  d)  $H = S (\sin z)$
5. When total station is sighted to the target which of the operation acts first [ A ] ✓  
a) Rotation of optical axis b) Rotation of vertical axis c) Rotation of horizontal axis  
d) Rotation of line of collimation
6. Which of the following is combination of total station [ C ] ✓  
a) Theodolite, compass b) Theodolite, EDM c) Electronic theodolite, EDM  
d) EDM, GPS
7. Which among the following doesn't indicate the basic calculation of the total station?  
a) Horizontal distance b) Slope distance [ B ] ✓  
c) Vertical distance d) Co-ordinate calculations
8. What is maximum accuracy of ODM devices? [ B ] ✓  
a) 1 in 100 b) 1 in 10000 c) 1 in 1000 d) None of the above
9. In which direction it is best place the total station or obtaining the best output? [ D ] ✓  
a) East b) West c) South d) North
10. The data obtained from total station can be used in which among the following software directly? [ D ] ✓  
a) Primavera b) STAAD PRO c) Autodesk Revit d) Surfer
11. Calculation the elevation difference if the vertical distance is 14.89m, instrument height is 9.2m, ground is at 2.8m. [ C ] X  
a) 21.29 m b) 12.29 m c) 21.92 m d) 41.29 m

  
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12. Find the vertical distance if the value of slope distance can be given as 12.98 and nth angle is  $1^{\circ} 23'$ .

- a) 21.97m    b) 12.97m    c) 12.79m    d) 21.79m

[ B ] ✓

13. The elevation of ground beneath the reflector, if the known elevation of instrument is 12.76m, slope distance = 3.76m, angle is about  $3^{\circ} 43'$ , instrument height = 2.93m, ground is at 0.987m.

- a) 18.54m    b) 81.54m    c) 18.45m    d) 18.97m

[ C ] ✓

14) How many types of EDM instruments are there based on Wavelength?

- a) 2    b) 4    c) 5    d) 3

[ D ] ✓

15. Which of the below is used up to a range of 100km?

- a) Infrared    b) Microwave    c) Visible range    d) Ultra-violet

[ B ] ✓

16). A total station is a combination of:

- a) EDM and Theodolite    b) Compass and EDM  
c) Electronic Theodolite and EDM    d) EDM and electronic Compass

[ C ] ✓

17). Which unit in total station processes data collected?

- a) Data collector    b) EDM    c) Storage system    d) Microprocessor

[ C ] X

18). The bubble in a total station is centralized using:

- a) Tripod    b) Leveling screw    c) Tangent screw    d) Foot screw

[ A ] ✓

19). Which of the below is not an application of total station?

- a) Crime scene investigation    b) Furniture manufacture    c) Mining    d) Archaeology

[ B ] ✓

20). How many types of EDM is there based on the reflector type?

- a) 3    b) 5    c) 4    d) 2

[ A ] ✓

  
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NH-16, Valluru -523272, Ongole, Prakasam District, A.P, India.

## ASSESSMENT TEST ON TOTAL STATION 198B5A0130

18/20

Objective Type Questions Each Question Carries One Mark Max Marks: 20

1. In total station, data is stored in [ C ] ✓  
a) Pen drive b) Data card c) Micro processor
2. Compensator can make complete adjustments in total Station [ B ] ✓  
a) True b) False
3. Vertical angle is measured in the total station as Zenith angle. [ B ] ✓  
a) False b) True
4. Which of the following indicates the formula [ D ] ✓  
a)  $S = H (\sin z)$  b)  $H = S * S (\sin z)$  c)  $H * H = S (\sin z)$  d)  $H = S (\sin z)$
5. When total station is sighted to the target which of the operation acts first [ A ] ✓  
a) Rotation of optical axis b) Rotation of vertical axis c) Rotation of horizontal axis  
d) Rotation of line of collimation
6. Which of the following is combination of total station [ C ] ✓  
a) Theodolite, compass b) Theodolite, EDM c) Electronic theodolite, EDM  
d) EDM, GPS
7. Which among the following doesn't indicate the basic calculation of the total station?  
a) Horizontal distance b) Slope distance  
c) Vertical distance d) Co-ordinate calculations [ B ] ✓
8. What is maximum accuracy of ODM devices?  
a) 1 in 100 b) 1 in 10000 c) 1 in 1000 d) None of the above [ B ] ✓
9. In which direction it is best place the total station or obtaining the best output? [ A ] X  
a) East b) West c) South d) North
10. The data obtained from total station can be used in which among the following software directly? [ D ] ✓  
a) Primavera b) STAAD PRO c) Autodesk Revit d) Surfer
11. Calculation the elevation difference if the vertical distance is 14.89m, instrument height is 9.2m, ground is at 2.8m. [ A ] ✓  
a) 21.29 m b) 12.29 m c) 21.92 m d) 41.29 m

  
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12. Find the vertical distance if the value of slope distance can be given as 12.98 and nth angle is  $1^{\circ} 23'$ .

- a) 21.97m    b) 12.97m    c) 12.79m    d) 21.79m

[ B ] ✓

13. The elevation of ground beneath the reflector, if the known elevation of instrument is 12.76m, slope distance = 3.76m, angle is about  $3^{\circ} 43'$ , instrument height = 2.93m, ground is at 0.987m.

- a) 18.54m    b) 81.54m    c) 18.45m    d) 18.97m

[ C ] ✓

14) How many types of EDM instruments are there based on Wavelength?

- a) 2    b) 4    c) 5    d) 3

[ D ] ✓

15. Which of the below is used up to a range of 100km?

- a) Infrared    b) Microwave    c) Visible range    d) Ultra-violet

[ B ] ✓

16). A total station is a combination of:

- a) EDM and Theodolite    b) Compass and EDM  
c) Electronic Theodolite and EDM    d) EDM and electronic Compass

[ A ] ✗

17). Which unit in total station processes data collected?

- a) Data collector    b) EDM    c) Storage system    d) Microprocessor

[ D ] ✓

18). The bubble in a total station is centralized using:

- a) Tripod    b) Leveling screw    c) Tangent screw    d) Foot screw

[ A ] ✓

19). Which of the below is not an application of total station?


- a) Crime scene investigation    b) Furniture manufacture    c) Mining    d) Archaeology

[ B ] ✓

20). How many types of EDM is there based on the reflector type?

- a) 3    b) 5    c) 4    d) 2

[ A ] ✓

  
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**DEPARTMENT OF CIVIL ENGINEERING**

A FIVE DAY CERTIFICATE PROGRAM ON TOTAL STATION								
STUDENT FEED BACK ANALYSIS								
AY: 2019-20			Year & Semester: II-I			Date: 17-09-2019		
S.No	ROLL.NO	NAME OF THE STUDENT	Q1	Q2	Q3	Q4	Q5	Q6
1	188B1A0101	BODDU VYSHNAVI	5	5	5	4	4	4
2	188B1A0102	KAKUMANI MANJU	5	5	4	4	5	5
3	188B1A0103	MENDA MALAVIKA	4	5	4	5	5	4
4	188B1A0104	SUDARSI ANUSHA	5	5	5	4	4	5
5	188B1A0105	TUMBETI ASWANI	4	4	4	4	4	5
6	188B1A0106	VEERAMALLI BRAHMARDHANA	4	5	5	5	5	5
7	188B1A0107	VEMULAPALLI RENUKA CHOWDARY	4	5	4	5	5	4
8	188B1A0108	AYINAMPUDI RAVI	5	4	5	4	4	5
9	188B1A0109	DUDEKULA CHINNAKASAI AH	4	5	5	4	4	4
10	188B1A0110	EEDUMUDI SAI KUMAR	5	5	5	5	4	5
11	188B1A0111	JADA AKHIL KUMAR	4	5	4	5	4	5
12	188B1A0112	KALIBOGU VENKATA VAMSI	5	5	5	5	5	5
13	188B1A0113	KOPPOLU SURYA TEJA	5	4	5	5	5	4
14	188B1A0114	KOTA SIVA KUMAR	5	4	4	5	5	5
15	188B1A0115	MADDI JAI GANESH VENKATA NAGA PAVAN	5	4	4	5	4	5
16	188B1A0116	MEDIBOINA NARENDRA	5	4	5	4	5	4

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17	188B1A0117	PUVVADI VENKATA RAO	5	5	5	4	5	5
18	188B1A0118	SWARNA VIGNESWARA RAO	4	5	5	4	5	4
19	188B1A0119	TAPPETA TEJASSU	5	5	5	4	4	4
20	188B1A0120	THUMMALA MANIKANTA	4	4	5	5	4	4
21	188B1A0121	VEERAVARTHI YASWANTH	4	4	5	4	5	5
22	188B1A0122	VENGAIAH TIPPABATTINA	4	5	4	5	5	4
23	188B1A0123	YARLAGADDA ABHIVARDHAN	5	5	4	5	5	5
24	188B1A0124	SUNNAPU VASANTHA RAO	5	4	4	5	5	5
25	198B5A0101	KOPPOLU KOMALI	5	5	5	5	4	5
26	198B5A0102	ORUGANTI SANDYA	4	4	5	5	4	4
27	198B5A0103	BILLA ANJANEYULU	4	4	5	4	5	4
28	198B5A0104	BIRUDALA RAJA	4	5	4	4	4	4
29	198B5A0105	CHALLA PAVAN KALYAN	5	4	4	4	5	4
30	198B5A0106	CHALUVADI SREENADH	5	5	5	5	5	5
31	198B5A0107	CHUNDI THULASIRAM	5	4	5	4	5	5
32	198B5A0108	DASARI DEVADAS	5	5	4	4	5	5
33	198B5A0109	DIGUDU NARASIMHA RAO	5	5	5	5	5	4
34	198B5A0110	GOLLA VAMSI	5	4	4	5	5	4
35	198B5A0111	INUKOLLU SIVA LINGA REDDY	5	4	5	5	5	4
36	198B5A0112	JANAPARAPU DEEPAK	5	5	4	5	5	5
37	198B5A0113	KASIREDDY SIVA REDDY	4	5	5	5	5	5
38	198B5A0114	KATTA SAI	4	5	5	4	4	4
39	198B5A0115	KATTA SATISH	4	4	4	5	4	5
40	198B5A0116	KISHTAPARAPU SAI RANGA	5	4	5	5	5	5
41	198B5A0117	KUNCHALA VENKATA RAJU	5	4	5	4	4	4
42	198B5A0118	LOMADA BALAJI	4	4	4	4	5	4


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43	198B5A0119	MEDIDA SUBHANI	4	4	4	4	5	5
44	198B5A0120	PALETI AJITH	5	4	5	5	4	5
45	198B5A0121	PERLA SAI MANI KANTA	4	5	5	5	4	5
46	198B5A0122	SRIRANGAPURI SAI	4	5	4	5	5	4
47	198B5A0123	TELLA OBEDU	5	5	4	5	5	5
48	198B5A0124	TUPAKULA SIDDAIAH	5	5	4	5	4	5
49	198B5A0125	UPPALAPATI AKHIL KUMAR	4	5	4	4	4	5
50	198B5A0126	VUTUKURI YESUBABU	4	4	5	5	4	4
51	198B5A0127	YARRAGUNTLA SATHISH	4	4	4	4	4	5
52	198B5A0128	KANCHUGATLA GALAIAH	5	5	5	5	4	4
53	198B5A0129	TARIGOPULA PAVAN KUMAR	5	4	5	4	5	5
54	198B5A0130	GUMMADI NAVYA	4	4	5	5	5	5
			243	243	248	245	246	245
			4.51	4.51	4.59	4.53	4.55	4.53
			90.14	90.16	91.79	90.57	91.05	90.62
			90.72					

  
CO-ORDINATOR

  
HOD  
HEAD OF THE DEPARTMENT  
Dept. of CIVIL Engineering  
RISE Krishna Sai Gandhi Group  
of Institutions, VALLURU A.P.-523 272

  
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**STUDENT FEED BACK FORM**

NAME OF THE STUDENT: *S. Anusha*

DATE: *17-09-2019*

ROLL NO: *188B1A0104*

A.Y: *2019-20*

PROGRAMME NAME: *Total station*

S.NO	FEED BACK POINTS	1	2	3	4	5
1	Is the Programme useful or not?					✓
2	Is the Programme well planned or not?					✓
3	Programme makes objectives clear?					✓
4	Programme speaker speaks clearly and audibly?				✓	
5	Speaker explains with examples clearly?				✓	
6	Is your Doubts clarified or not?					✓

5-EXCELLENT      4-GOOD      3-AVERAGE      2-POOR      1-NO COMMENT

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**STUDENT FEED BACK FORM**

NAME OF THE STUDENT: V. Renuka Chowdary

DATE: 17-09-2019

ROLL NO: 188B1A0107

A.Y: 2019-2020

PROGRAMME NAME: Total Station

S.NO	FEED BACK POINTS	1	2	3	4	5
1	Is the Programme useful or not?				✓	
2	Is the Programme well planned or not?					✓
3	Programme makes objectives clear?				✓	
4	Programme speaker speaks clearly and audibly?					✓
5	Speaker explains with examples clearly?					✓
6	Is your Doubts clarified or not?				✓	

5-EXCELLENT      4-GOOD      3-AVERAGE      2-POOR      1-NO COMMENT

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#### STUDENT FEED BACK FORM

NAME OF THE STUDENT: B. Raja

DATE: 17/09/2019

ROLL NO: 198BSA0104

A.Y: 2019-20

PROGRAMME NAME: Total Station.

S.NO	FEED BACK POINTS	1	2	3	4	5
1	Is the Programme useful or not?				✓	
2	Is the Programme well planned or not?					✓
3	Programme makes objectives clear?				✓	
4	Programme speaker speaks clearly and audibly?				✓	
5	Speaker explains with examples clearly?				✓	
6	Is your Doubts clarified or not?				✓	


5-EXCELLENT

4-GOOD

3-AVERAGE

2-POOR

1-NO COMMENT

  
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**STUDENT FEED BACK FORM**

NAME OF THE STUDENT: P. Ajith

DATE: 17/09/2019

ROLL NO: 19835A0120

A.Y: 2019-20

PROGRAMME NAME: Total Station

S.NO	FEED BACK POINTS	1	2	3	4	5
1	Is the Programme useful or not?					✓
2	Is the Programme well planned or not?				✓	
3	Programme makes objectives clear?					✓
4	Programme speaker speaks clearly and audibly?					✓
5	Speaker explains with examples clearly?				✓	
6	Is your Doubts clarified or not?					✓

5-EXCELLENT      4-GOOD      3-AVERAGE      2-POOR      1-NO COMMENT

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### DEPARTMENT OF CIVIL ENGINEERING

Report on

#### Program Total Station

Resource person

**Mr. Poojith, Sr Trainer**

From

**17-09-2019 To 21-09-2019**

For the 5 days work shop was conducted in Civil Department. On **17.09.2019** the program started at 9 A.M with inauguration. The session was started by Mr.Poojit, Senior Trainer, and Pavan Survey. The TOTAL STATION basics of surveying and field survey done with exploring equipment features.

**Total stations** are mainly used by land surveyors and civil engineers, either to record features as in topographic **surveying** or to set out features.

## What is surveying?

Surveying is the process of analyzing and recording the characteristics of a land area span to help design a plan or map for construction.

Total Station is the currently preferred Surveying equipment in the industry. Find out what is a Total Station? Here and about Survey camp using Total Station workshop here.

## Categories of Surveying are:

- **Geodetic Surveying:**

Surveys are carried out on a large scale with the help of control networks spanning over long distances.

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- **Cadastral Surveying:**

Surveys are carried out to define land ownership and boundaries.

- **Topographical Surveying:**

Surveys are carried out to determine land structure along with variation in land heights.

- **As Built Surveying:**

Surveys are carried out after completion of a construction project to check variance from proposed design.

- **Photogrammetry (Aerial Surveying):**

Surveys are carried out by taking photographs from elevated ground stations.

- **LiDAR (Aerial Surveying):**

Surveys are carried out using remote sensors and light reflected by lasers to measure distances.

**Total station** (TS), Global Positioning System (GPS) and terrestrial laser scanner (TLS). Choosing suitable control points for the network and detail **survey**. A **total station** is an electronic/optical instrument used in modern **surveying**. ... Electronic Distance Measurement Instruments, **Total station** and GPS. Angle can be measured by using a THEODOLITE. Once distance and angular measurement is over computation is performed to provide the control points.

A total station is an electronic/optical instrument used in modern surveying and building construction that uses electronic transit theodolite in conjunction with electronic distance meter (EDM). It is also integrated with microprocessor, electronic data collector and storage system.

Robotic or motorized total stations allow the operator to control the instrument from a distance via remote control. This eliminates the need for an assistant staff member as the operator holds the retroreflector and controls the total station from the observed point. These motorized total stations can also be used, in automated setups known as Automated Motorized Total Station (AMTS).

  
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The instrument is used to measure sloping distance of object to the instrument, horizontal angles and vertical angles. This Microprocessor unit enables for computation of data collected to further calculate the horizontal distance, coordinates of a point and reduced level of point.

Data collected from total station can be downloaded into computer/laptops for further processing of information.

Total stations are mainly used by land surveyors and civil engineers, either to record features as in topographic surveying or to set out features (such as roads, houses or boundaries). They are also used by archaeologists to record excavations and by police, crime scene investigators, private accident Reconstructions and insurance companies to take measurements of scenes.

1. Field work is carried out very fast.
2. Accuracy of measurement is high.
3. Manual errors involved in reading and recording are eliminated.
4. Calculation of coordinates is very fast and accurate. Even corrections for temperature and pressure are automatically made.
5. Computers can be employed for map making and plotting contour and cross-sections. Contour intervals and scales can be changed in no time.

The overall feedback of the session was very good.



  
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CERTIFICATE PROGRAM ON FIELD SURVEY BY



**“TOTAL STATION”**

ORGANIZED

BY

DEPARTMENT OF CIVIL ENGINEERING

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## DEPARTMENT OF CIVIL ENGINEERING

### CLOSING REPORT

Date: 21.09.2019

To,  
The Principal,  
RISE Krishna Sai Gandhi Group of Institutions

As per the approved schedule Rise Krishna Sai Gandhi group of Institutions conducted work shop on "TOTAL STATION" at CIVIL Seminar hall on 17.09.2019 to 21.09.2019 from 9.00am to 5.00pm. All the students of II CIVIL total 54 are participated in this program. Mr. POOJIT, Senior Trainer, Pavan Survey acted as the resource person for this programme.

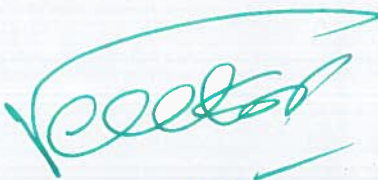
#### Main issues address

1. Field work is carried out very fast.
2. Accuracy of measurement is high.
3. Manual errors involved in reading and recording are eliminated.
4. Calculation of coordinates is very fast and accurate. Even corrections for temperature and pressure are automatically made.
5. Computers can be employed for map making and plotting contour and cross-sections. Contour intervals and scales can be changed in no time.

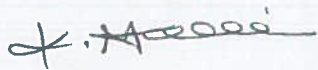
We are expecting your support in future also, for that we will be thankful to you.

Thanking you sir,

  
CO-ORDINATOR

  
PRINCIPAL  
RISE KRISHNA SAI GANDHI  
GROUP OF INSTITUTIONS  
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Yours faithfully,

  
HOD

HEAD OF THE DEPARTMENT  
Dept. of CIVIL Engineering  
RISE Krishna Sai Gandhi Group  
of Institutions, VALLURU, A.P.-523 272