



MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

UGC Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad.
Accredited 2nd time by NAAC with 'A' Grade,
Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad,
Telangana State – 500100, www.mrec.ac.in

Department of Civil Engineering

Ref /MREC/CE/VCA/2018/01

Date: 06.09.2018

Circular

The Department of Civil Engineering is Organizing value added course on “SURVEYING USING TOTAL STATION” from 10th to 15th September, 2018. The resource person for the program is Dr.Ashok Kumar.

All the students must register for the training by consulting the coordinator Mr.A.Bhoomesh Assistant Professor, Civil Department. The detailed schedule will be displayed on the department notice board.

HOD-CE



PRINCIPAL
Malla Reddy Engineering College
(Autonomous)
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500 100

Advisory Committee:

Chief Patrons: Sri. Ch. Malla Reddy,

Founder Chairman

Malla Reddy Group of Institutions

Patrons: Sri.Ch. Mahender Reddy

Secretary, MRGI

Dr.Ch.Bhadra Reddy

President, MRGI

Co-Patrons: Dr. Sudhakar Reddy

Principal, MREC (A)

Convener: Dr.J. Selwyn Babu

HOD CIVIL

Coordinator Mr.A.Naga Saibaba &

Mr.A.Bhoomesh

Assistant Professor, CIVIL

Organizing Committee:

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Dr.C.Srinivas Gupta, Professor, Civil

Dr.P.Saritha, Associate Professor, Civil

B.J.Vishwanath.,Assistant Professor.Civil

E.Rakesh Reddy. Assistant Professor, Civil

A. Naga Saibaba. Assistant Professor, Civil

R. Sumathi, Assistant Professor, Civil

K. Harshada, Assistant Professor, Civil

B. Vamshi Krishna, Assistant Professor, Civil

G.Krishna Rao, Assistant Professor, Civil

P.Suresh Chandra Babu, Assistant Professor,
Civil

L.M.Varun, Assistant Professor, Civil



A Six Day Skill development Course

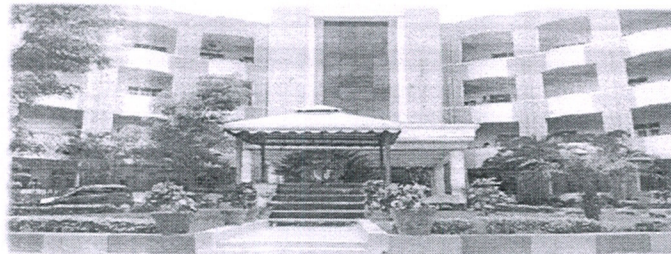
(Value added Course)

On

“Surveying Using Total Station”

(10th to 15th September, 2018)

In Association with



Organized by

Department of Civil Engineering

MALLA REDDY ENGINEERING COLLEGE

(AUTONOMOUS) MAIN CAMPUS

An UGC Autonomous Institution, Approved by

AICTE & Affiliated to JNTUH-Hyderabad

Reaccredited by NAAC with ‘A’ Grade (II Cycle)

Maisammaguda(H), Gundlapochampally (V),

Medchal (M), Medchal - Malkajgiri District

Telangana - 500100, India.



Registration Form:

A Six Day Skill development Course

(Value added Course)

On

“Surveying Using Total Station”

(10th to 15th September, 2018)

1.Name.....

2.Roll No.....

3.Department.....

4.Mailing address.....

5.Mobile.....

6.Email.....

Signature of the Applicant

Date:

Place:

This is to certify that

Mr/Ms.....of.....

Is sponsored to attend the Value Added
Course

Signature of the Institution with Seal

Date:

Place:

About the Institution

Malla Reddy Engineering College (Autonomous) is one of the reputed engineering colleges in Hyderabad, Telangana. **MREC (A)** is part of Malla Reddy Group of Institutions (MRGI), founded by Sri. Ch. Malla Reddy. The college is situated in a serene lush green environment in Maisammaguda, Gundlapochampally, Medchal(M), Mechal-Malkajgiri District, Telangana-500100.

The college was established in 2002 and is an autonomous institution approved by UGC and affiliated to JNTUH. The college is re-accredited by NAAC with 'A' Grade (II Cycle) and was conferred autonomous status by JNTUH in 2011 and by UGC in 2014 for a period of 6 years. Our eligible UG and PG programs received NBA accreditation and some of them received reaccreditation too. Along with programs in various streams of Engineering & Technology and Management. It boasts of world-class infrastructure and well-equipped laboratories in all departments and is skillfully and smartly guided by **Dr. Sudhakar Reddy, Principal, MREC (A)** who have a rich teaching and industrial experience.

About the Department:

The Department of Civil Engineering at MREC has been producing high quality technical manpower needed by industry, R&D organizations, and academic institutions since 2004 with an Intake of 60. The intake has been increased to 120 in the year 2009 and 180 in the year 2014. The Department started offering M.Tech with Structural Engineering specialization in 2010 with an intake of 18,

two more courses at P.G level- geotechnical engineering and transportation engineering are being offered from the academic year 2013-2014 with an intake of 24 each. The department was accredited by NBA in the year 2014.

Overview of the Programme:

The primary responsibility of student is not only to study towards a higher vision but also create a strong sense of bonding between the institution and the students to nurture a stress-free holistic environment. To enhance the quality of life for the students enabling them to introspect and learn techniques that imbibe ethics & morals in their teaching and help pre-prepare students for active and successful participation in a modern society, producing individuals of high character, probity and honor.

Proposed VAC is helping to imbibe the skills and competencies required to achieve goals directed by values, to maintain and enhance faculty effectiveness by inculcating dynamism and leadership qualities and to develop commitment and ethical approach towards work, and instill a sense of responsibility towards the institution. Also to enhance communication and soft skills by introducing innovative teaching methodologies and developing an inter-personal connection with students. To achieve this goal, Art of Living foundation is conducting this workshop through ATAL.

Objectives of the Programme:

- To imbibe the skills and competencies required to achieve goals directed by values.
- To maintain and enhance student effectiveness by inculcating dynamism and leadership qualities.
- To develop commitment and ethical approach towards work, and instill a sense of responsibility towards the companies.
- To enhance communication and soft skills of the students by introducing innovative methodologies and developing an interpersonal connection.

Topics to be covered:

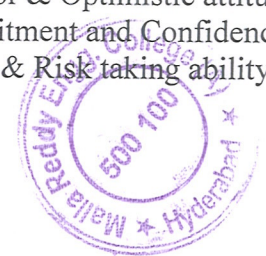
- ❖ Average of multiple angles measured
- ❖ Average of multiple distance measured.
- ❖ Horizontal distance
- ❖ Distance between any two points

Test and Certificate:

A test will be conducted at the end of the program and the certificates shall be issued to those participants

Outcome of the Program:

- After completing the Course, the student will feel the difference in terms of:
- Enhanced Potential, Fair-mindedness
 - Empathetic behavior & Optimistic attitude
 - Dynamism, Commitment and Confidence
 - Ethical Leadership & Risk taking ability





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SYLLABUS

“SURVEYING USING TOTAL STATION”

Total station is a surveying equipment combination of **Electromagnetic Distance Measuring Instrument** and electronic theodolite. It is also integrated with microprocessor, electronic data collector and storage system. The instrument can be used to measure horizontal and vertical angles as well as sloping distance of object to the instrument.

Capability of a Total Station

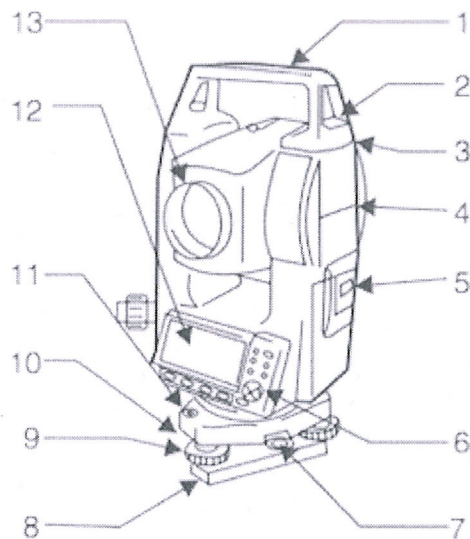
Microprocessor unit in total station processes the data collected to compute:

1. Average of multiple angles measured.
2. Average of multiple distance measured.
3. Horizontal distance.
4. Distance between any two points.
5. Elevation of objects and
6. All the three coordinates of the observed points.

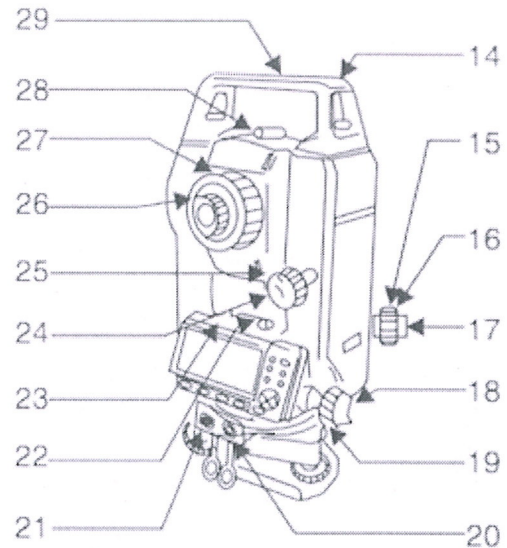
Data collected and processed in a Total Station can be downloaded to computers for further processing.

Total station is a compact instrument and weighs 50 to 55 N. A person can easily carry it to the field. Total stations with different accuracy, in angle measurement and different range of measurements are available in the market. Figure below shows one such instrument manufactured by SOKKIA Co. Ltd. Tokyo, Japan.





1. Handle
2. Handle securing screw
3. Data input/output terminal
(Remove handle to view)
4. Instrument height mark
5. Battery cover
6. Operation panel
7. Tribrach clamp
(SET300S/500S/600S: Shifting clamp)
8. Base plate
9. Levelling foot screw
10. Circular level adjusting screws
11. Circular level
12. Display
13. Objective lens



14. Tubular compass slot
15. Optical plummet focussing ring
16. Optical plummet reticle cover
17. Optical plummet eyepiece
18. Horizontal clamp
19. Horizontal fine motion screw
20. Data input/output connector (Besides
the operation panel on SET600/600S)
21. External power source connector
(Not included on SET600/600S)
22. Plate level
23. Plate level adjusting screw
24. Vertical clamp
25. Vertical fine motion screw
26. Telescope eyepiece
27. Telescope focussing ring
28. Peep sight
29. Instrument center mark

Important Operations of Total Station

Distance Measurement

Electronic distance measuring (EDM) instrument is a major part of total station. Its range varies from 2.8 km to 4.2 km. The accuracy of measurement varies from 5 mm to 10 mm per km measurement. They are used with automatic target recognizer. The distance measured is always sloping distance from instrument to the object.



Angle Measurements

The electronic theodolite part of total station is used for measuring vertical and horizontal angle. For measurement of horizontal angles any convenient direction may be taken as reference direction. For vertical angle measurement vertical upward (zenith) direction is taken as reference direction. The accuracy of angle measurement varies from 2 to 6 seconds.

Data Processing

This instrument is provided with an inbuilt microprocessor. The microprocessor averages multiple observations. With the help of slope distance and vertical and horizontal angles measured, when height of axis of instrument and targets are supplied, the microprocessor computes the horizontal distance and X, Y, Z coordinates.

The processor is capable of applying temperature and pressure corrections to the measurements, if atmospheric temperature and pressures are supplied.

Display

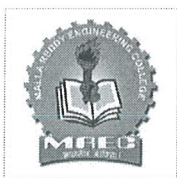
Electronic display unit is capable of displaying various values when respective keys are pressed. The system is capable of displaying horizontal distance, vertical distance, horizontal and vertical angles, difference in elevations of two observed points and all the three coordinates of the observed points.

Electronic Book

Each point data can be stored in an electronic note book (like compact disc). The capacity of electronic note book varies from 2000 points to 4000 points data. Surveyor can unload the data stored in note book to computer and reuse the note book.




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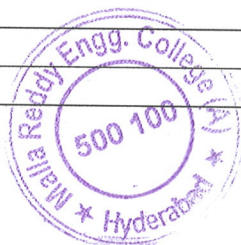
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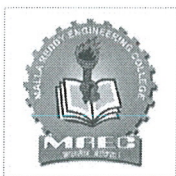
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VAC ENROLLED LIST

SURVEYING ON TOTAL STATION (10th to 15th SEPTEMBER, 2018)

Sl.No	Roll No	Name
1	17J41A0102	A BHAVANI KISHORE
2	17J41A0103	ANABATTULA NITIN
3	17J41A0104	A THARUN VAMSHI
4	17J41A0105	A NITHISH KUMAR REDDY
5	17J41A0106	AREKANTI PRABHU DAS
6	17J41A0107	BANDARU GANESH
7	17J41A0109	B RAJESWARI HARINI
8	17J41A0110	BODAKUNTA SRINIVAS
9	17J41A0111	BODDU VAMSI KRISHNA
10	17J41A0112	BOLLIGORLA LOKESH
11	17J41A0113	B RAHUL VARMA
12	17J41A0114	CHIGIRI SANDHYA RANI
13	17J41A0116	CHITYALA RAJU
14	17J41A0117	D NIKITHA
15	17J41A0118	DARAM SAROJINI
16	17J41A0119	G SHASHIDHAR GOUD
17	17J41A0120	GAJULA SRINIJA
18	17J41A0121	G SHIVA PRASAD YADAV
19	17J41A0122	GOPATHI AJAYKUMAR
20	17J41A0123	GUJJALA LAVANYA
21	17J41A0124	GURRAM DEVARAJ
22	17J41A0126	INDLA HARIKA
23	17J41A0128	K RAJASHEKAR
24	17J41A0129	KANDUKURI DURGA SAI
25	17J41A0131	K KALPANA APARANJITHA
26	17J41A0132	KATIKALA GOPI
27	17J41A0134	K MITHUN KUMAR
28	17J41A0136	M SRI SHARAN GOUD
29	17J41A0137	MADUGULA RAMYA
30	17J41A0138	MOGULAGANI MAHESH
31	17J41A0139	MOHAMMAD IDREES
32	17J41A0140	MOOTA NAVEEN
33	17J41A0141	M KARUNAKAR REDDY





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34	17J41A0143	PEDDI ARUN KUMAR
35	17J41A0144	PITTALA KARTHIK
36	17J41A0147	RACHALA ABHISHEK
37	17J41A0148	R BHARADWAJA
38	17J41A0150	SEVA SAMSON RAJ
39	17J41A0151	SHAIK BAJI BABA
40	17J41A0152	SHEELAM PRAVALIKA
41	17J41A0153	T ADITHYA
42	17J41A0154	T SHIVA KUMAR
43	17J41A0155	THOMMANDRU BLESSY
44	17J41A0156	U CHANDRA SEKHAR
45	17J41A0157	V AJAY KUMAR RAJU
46	17J41A0158	V KAPLESHWER RAJA REDDY
47	17J41A0159	V NAVEENKUMAR REDDY
48	17J41A0160	V SAI PAVAN REDDY
49	18J45A0102	A.PRUDVIRAJ
50	18J45A0103	B.VAMSHI
51	18J45A0104	B.VINAYKUMAR
52	18J45A0105	CHANDAN SRIJANI
53	18J45A0106	CH. VENNELA
54	18J45A0107	G.NAVEEN
55	18J45A0108	G.KALYAN KUMAR
56	18J45A0109	G.BHAVANI
57	18J45A0110	J.MOHAN
58	18J45A0111	K.ANUSHA
59	16J41A01E3	G SAI PRANAY
60	17J41A0162	ANAGANTI PADMAJA
61	17J41A0165	B RAMU NAIK
62	17J41A0166	B REETIKA REDDY
63	17J41A0167	BANOTH ANUSHITHA
64	17J41A0168	BATTINA VAISHNAVI
65	17J41A0169	BATTINI ALAIKYA
66	17J41A0170	BHAITHI ANIL KUMAR
67	17J41A0171	BIRRU GAGANSAI
68	17J41A0172	BODA MOUNIKA
69	17J41A0173	BODDU MAHENDRA
70	17J41A0175	CHALLA RAJU
71	17J41A0176	CHILUKAMARRI VIVEK
72	17J41A0177	CHINNAM AMRUTHA

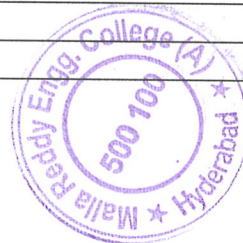




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73	17J41A0178	CH VAMSHIDHAR SAI
74	17J41A0180	D SATHVIK REDDY
75	17J41A0181	DONGARI RAHUL VARMA
76	17J41A0182	DUMPALA YAMINI
77	17J41A0183	G UDAY KUMAR
78	17J41A0185	GATTIPALLI MEGHANA
79	17J41A0186	G MANASWINI
80	17J41A0187	GUGULOTHU AKHIL NAIK
81	17J41A0188	GUGULOTHU YAMUNA
82	17J41A0190	JAUDI DIVYA BHARATHI
83	17J41A0191	K N S NITESH
84	17J41A0192	KACHAM VENKATASAI
85	17J41A0193	K DHEERAJ KUMAR REDDY
86	17J41A0194	K CHANDRASHEKAR
87	17J41A0195	KANDUKURI SHRAVANI
88	17J41A0196	KANITHI PRAVALIKA
89	17J41A0197	KOPPULA VAISHNAVI
90	17J41A0199	K VIDYA SAGAR REDDY
91	17J41A01A0	M SHIVA TEJA
92	17J41A01A1	MALINI VISHLESH REDDY
93	17J41A01A5	N HARSHA VARDHAN REDDY
94	17J41A01A6	NUTI DEEPTHI
95	17J41A01A7	PI SANJAY KUMAR REDDY
96	17J41A01A8	PURVAM SAI TEJA
97	17J41A01A9	RAMOLLA SUMANTH
98	17J41A01B1	REKALA SNEHA
99	17J41A01B2	SANDHU RAMAKRISHNA
100	17J41A01B3	S SINGH THAKUR
101	17J41A01B4	SOLLOJU NAGESH
102	17J41A01B6	TMAHESH VARMA
103	17J41A01B7	U SANKEERTH REDDY
104	17J41A01B8	VEERAVENI PRASHANTH
105	17J41A01B9	VIJJAGIRI SHIVA SAITEJA
106	17J41A01C0	VOJJALA SAINERAJ
107	18J45A0113	KASIREDDY AMARENDER
108	18J45A0114	KATARAPU BHANUTEJA
109	18J45A0115	KONDAPURAM GANESH
110	18J45A0116	KOSARI
111	18J45A0117	KUNCHAM NAGARAJU



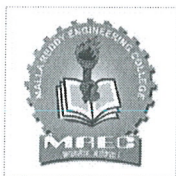


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112	18J45A0118	M SHESHI KANTH REDDY
113	18J45A0119	MACHARLA VENUMADHURI
114	18J45A0120	MADHURI MADHAVI
115	18J45A0121	MANKALI DHYANASRI
116	18J45A0122	MASANI ABHINAY
117	18J45A0123	MENCHU NAVEEN
118	18J45A0124	MOHAMMAD SAHIL
119	17J41A01C1	AKULA ARUN KUMAR
120	17J41A01C2	AKULA SRINIKHIL KUMAR
121	17J41A01C4	B PRAVALIKA
122	17J41A01C5	BAKSHI HARAPOORNAJA
123	17J41A01C7	BATTINI NARSIMHA RAO
124	17J41A01C9	BURRI JEEVAN REDDY
125	17J41A01D0	DASARI NAVEEN
126	17J41A01D1	DEEKSHITH JABBA
127	17J41A01D2	D RISHIVARDHAN REDDY
128	17J41A01D3	D NAVYA CHARITHA
129	17J41A01D4	E BHANU CHANDER
130	17J41A01D6	G SHIVA CHAITHANYA
131	17J41A01D7	GUNTHA SAIESH
132	17J41A01D8	JAJOLLA BHARATH SAGAR
133	17J41A01D9	K LAKSHMI PRANATHI
134	17J41A01E0	K VENKATASAI
135	17J41A01E1	KUNCHALA SINDHU PRIYA
136	17J41A01E2	KURA RAMU
137	17J41A01E3	KUTURU SAI SUJITH
138	17J41A01E4	M MOHAN KUMAR
139	17J41A01E5	MACHARLA AHARSHYA
140	17J41A01E6	MADALA DINESH KUMAR
141	17J41A01E7	MAGAM HRITHIK REDDY
142	17J41A01E8	MALAHA MOHITH
143	17J41A01F0	MANDALA VINAY KUMAR
144	17J41A01F1	MATTEWADA NAVEEN
145	17J41A01F2	MOHAMMAD RAHEEM
146	17J41A01F3	NRAKESH REDDY
147	17J41A01F4	NAVOTHU BHARANI
148	17J41A01F5	NETHETLA NARESH
149	17J41A01F6	NIMMALA ANJALA
150	17J41A01F7	NUNAVATH DASU






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151	17J41A01F9	POGULA KARTHIK
152	17J41A01G1	PRATHISHTA GAJULA
153	17J41A01G2	R PRAVEEN KUMAR
154	17J41A01G4	S BALA SAI VIVEK
155	17J41A01G5	SHAIK ARSHAD ALI
156	17J41A01G6	SUNKARI ROHITH
157	17J41A01G7	TALLURI LAXMI DURGA
158	17J41A01G9	THAMMISHETTI PAVAN
159	17J41A01H0	TIKARAM DINESH KUMAR
160	17J41A01H1	UTLA KUSUMA SOURAV
161	17J41A01H3	VANTALA SUKANYA
162	17J41A01H4	VELUPULA SHIVASAI
163	17J41A01H5	VEMULA SOWMYA
164	17J41A01H6	VOJJA PRATHYUSHA
165	17J41A01H7	VOOTURI ROHAN BABU
166	17J41A01H8	M KOUSHIK REDDY
167	17J41A01H9	A MALLIKARJUNA
168	18J45A0125	MUDAVATH SANDHYA
169	18J45A0126	MUDIMELA PRIYANKA
170	18J45A0127	NAGARLA SHIRISHA
171	18J45A0128	ODELA RAKESH
172	18J45A0129	OMKARI SRIKANTH
173	18J45A0130	P NITHIN KUMAR REDDY
174	18J45A0131	PINNAPUREDDY ANAND REDDY


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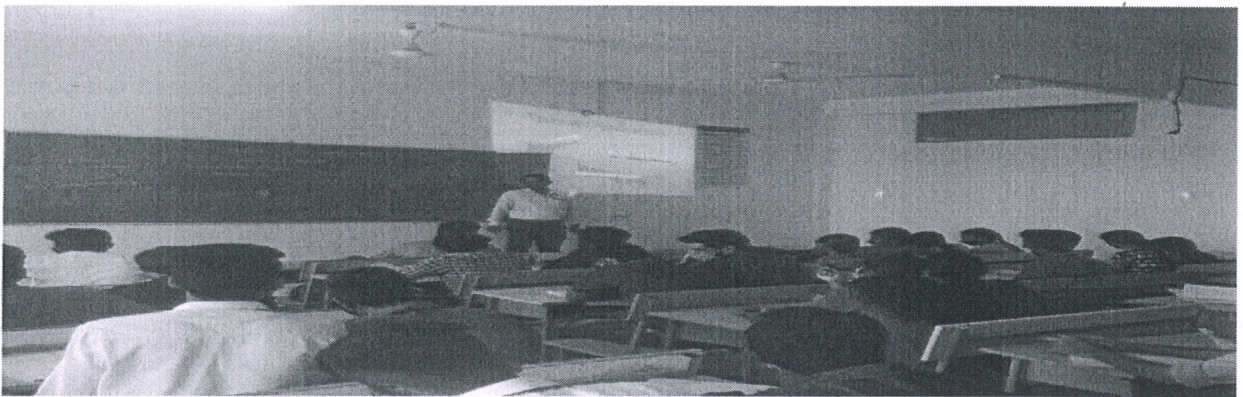
DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR: 2018-19
SUMMARY REPORT

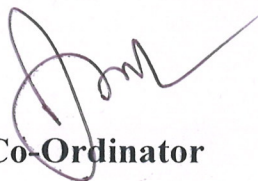
Value Added course name: Surveying using Total Station

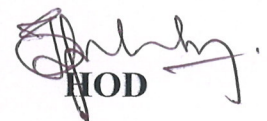
Value Added course Instructor: Dr Ashok Kumar


A total station (TS) or total station theodolite (TST) is an electronic/optical instrument used for surveying and building construction. It is an electronic transit theodolite integrated with electronic distance measurement (EDM) to measure both vertical and horizontal angles and the slope distance from the instrument to a particular point, and an on-board computer to collect data and perform triangulation calculations.

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 retro-reflector 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).




Co-Ordinator


HOD


Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100

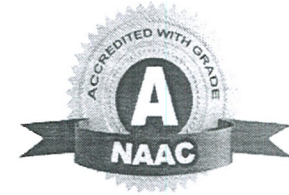


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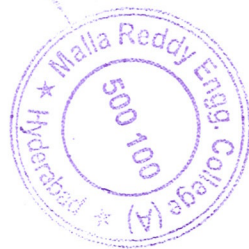
CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms. A BHAVANI KISHORE bearing
Roll No. 17J41A0102 has successfully completed Certificate / Value Added
Course / Workshop in Surveying Using Total Station conducted
by the Department of Civil Engineering from 10/09/2018 to 15/09/2018

COORDINATOR

HOD

PRINCIPAL



PRINCIPAL
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(Autonomous)
Maisammaguda, Dhulapally,
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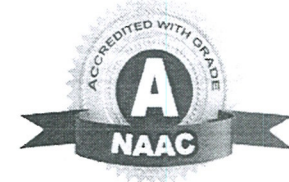


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CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms. ANABATTULA NITIN bearing
Roll No. 17J41A0103 has successfully completed Certificate / Value Added
Course / Workshop in Surveying Using Total Station conducted
by the Department of Civil Engineering from 10/09/2018 to 15/09/2018

COORDINATOR

HOD

PRINCIPAL



Handwritten signature in green ink.
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(Post Via Kompally), Sec'bad-500 100

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