



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/2019/01

Date: 13.07.2019


Circular

The department of Civil Engineering is organizing Value added course on “SURVEYING ON TOTAL STATION” from 18th to 22th July 2019. The resource person for the program is Dr.Ashok Kumar.

All the students must register for the training by consulting the coordinator Dr.Srinivas Gupta Professor, Civil Department. The detailed schedule will be displayed on the department notice board.


HOD-CE




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

Advisory Committee:

Chief Patrons: Sri. Ch. Malla Reddy, Minister-
Telangana State-India.

Founder Chairman
Malla Reddy Group of Institutions

Patrons: Sri.Ch. Mahender Reddy
Secretary, MRGI
Dr.Ch.Bhadra Reddy
President, MRGI

Co-Patrons: Dr.A.RamaSwami Reddy
Director, MREC (A)
Dr. A.Raveendra
Principal, MREC (A)

Convener: Dr. J. Selwyn Babu
HOD CIVIL

Coordinator: Dr.C.Srinivas Gupta
Professor CIVIL

Organizing Committee:

- Dr. J. Selwyn Babu, Professor, Civil
- Dr. J. Rex, Associate Professor, Civil
- Dr. K. Shimola, Professor, Civil
- Dr. M.V.Jagannadha Kumar, Associate Professor, Civil
- Dr. G. Venkata Ramana, Professor, Civil
- G. Madan Mohan Reddy
- Dr.V Lakshmi Shireen Banu, Professor, Civil
- Dr. P.V.S. Vara Prasad, Professor, Civil
- Dr Shiva Reddy M.S, Professor, Civil
- Dr. C. M. Vivek Vardhan, Associate Professor, Civil
- Dr. P.Saritha, Associate Professor, Civil
- R. Sumathi, Assistant Professor, Civil
- K. Harshada, Assistant Professor, Civil
- B. Vamsi Krishna, Assistant Professor, Civil
- G. Krishna Rao, Assistant Professor, Civil



*A Four Day Skill development Course
(Value added Course)*

On

*“Surveying Using Total Station”
(18th to 22nd July, 2019)*

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.



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

Registration Form:

*A Four Day Skill development Course
(Value added Course)*

On

*“Surveying Using Total Station”
(18th to 22nd July, 2019)*

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, currently Hon'ble Minister, Labor and Employment, Factories, Women and Child Welfare and Skill Development, Govt. of Telangana State. The college is situated in a serene, lush green environment in Maisammaguda, Gundlapochampally, Medchal(M), Medchal-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.A.Ramaswami Reddy, Director, MREC(A)** and **Dr.A.Raveendra, 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

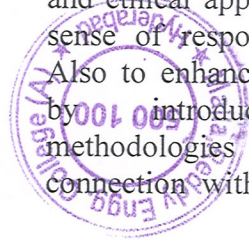
Test and Certificate:

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 itself 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:

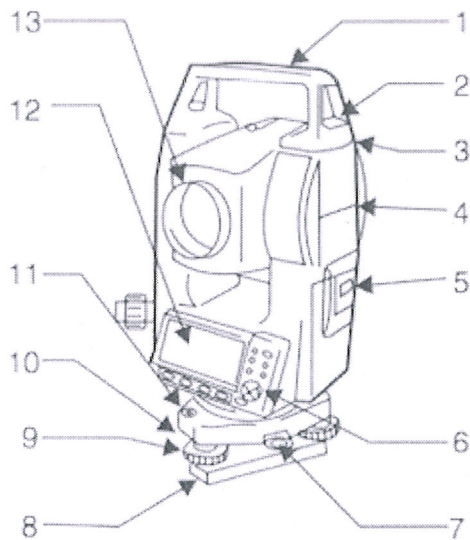
1. Average of multiple angles measured.
2. Average of multiple distance measured.
3. Horizontal distance.
4. Distance between any two points.
5. Elevation of objects and
6. All the three coordinates of the observed points.

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

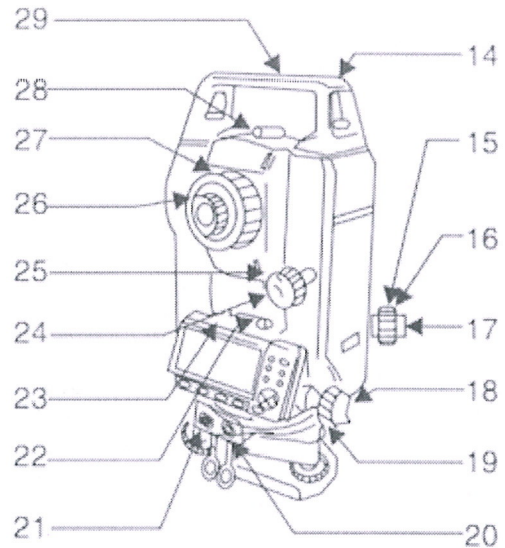
Total station is a compact instrument and weighs 50 to 55 N. A person can easily carry it to the field. Total stations with different accuracy, in angle measurement and different range of measurements are available in the market. Figure below shows one such instrument manufactured by SOKKIA Co. Ltd.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



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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.



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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.



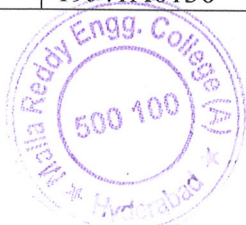
Ravish
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VAC ENROLLED LIST
SURVEYING USING TOTAL STATION
18th to 22nd July 2019

Sl.No	Roll No	Name	Course Completed(yes/no)
1	19J41A0101	ABDUL RAHMAN BIN RIYAZ KHAN	No
2	19J41A0102	ADULLA SAI KIRAN REDDY	Yes
3	19J41A0103	AGGU SRAVYA	Yes
4	19J41A0104	AMBERI VISHWANATH	Yes
5	19J41A0105	ANGOTHU NAVEEN	Yes
6	19J41A0106	ANUJ ROY	Yes
7	19J41A0107	ARE ABHINAV	Yes
8	19J41A0108	BAGANAGARI DHANUSH GOUD	Yes
9	19J41A0109	BANAGONI RAJASHEKAR GOUD	No
10	19J41A0110	BANAVATH CHATRAPATHI	Yes
11	19J41A0111	BHUKYA NAVYA	Yes
12	19J41A0112	BOLLA SANTHOSH REDDY	Yes
13	19J41A0113	BYREDDY PUJITHA	Yes
14	19J41A0114	CHITKULA AKHILA	Yes
15	19J41A0115	CHUKKA SRICHARAN	Yes
16	19J41A0116	DARAMALLA SANDEEP	Yes
17	19J41A0117	DHANASREE NARESH	Yes
18	19J41A0118	DODDA ABHIRAM	Yes
19	19J41A0119	GAJREE PAVAN	Yes
20	19J41A0120	GANGARAPU VIKAS	Yes
21	19J41A0121	GARAMPALLY LIKHITHA	Yes
22	19J41A0122	GUGULOTH DIVYASRI	Yes
23	19J41A0123	GUNDEBOINA AJAY	Yes
24	19J41A0124	GUNJI CHIRANJEEVI	Yes
25	19J41A0125	GUNTI SHIVA TEJA	Yes
26	19J41A0126	GYARA SRINIJA	Yes
27	19J41A0127	JANGILI VINAY	Yes
28	19J41A0128	JINKIRI SUJITH	Yes
29	19J41A0129	KAMMARI SAI KIRAN	Yes
30	19J41A0130	KATINENI ANKURA	Yes
31	19J41A0131	KATROTH SRAVANTHI	Yes
32	19J41A0132	KUMMARIPALLY MAHENDER	Yes
33	19J41A0133	KUNDETI NIKHIL RANGA RAO	Yes
34	19J41A0134	M AKHIL	Yes
35	19J41A0135	MALLEBOINA ARAVIND	Yes
36	19J41A0136	MALOTH SAI RAM	Yes



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37	19J41A0137	MUDAVATH VENKATESH	Yes
38	19J41A0138	PADALA SRIRAM	Yes
39	19J41A0139	PANDIRI SUCHITH	Yes
40	19J41A0140	PARAMATA CHAITANYA	Yes
41	19J41A0141	PARIKI VIJAY	Yes
42	19J41A0142	PATLAVATH SRAVAN KUMAR	Yes
43	19J41A0143	PEDIMALLA PRANITH KUMAR	Yes
44	19J41A0144	PENGARLA SHAM SUNDER	Yes
45	19J41A0145	RAJAMPET PREETHAM KUMAR	Yes
46	19J41A0146	RAVULA JYOTHSNA	Yes
47	19J41A0147	RAYAPALLY SATHWIK REDDY	Yes
48	19J41A0148	SAIDU SRAVYA	Yes
49	19J41A0149	SALIPURAM SAI GANESH	Yes
50	19J41A0150	SATKURI MADHU	Yes
51	19J41A0151	SEELAM MOHITH REDDY	Yes
52	19J41A0152	SHUBHAM PRABHARI	Yes
53	19J41A0153	S R VENKATA RAMANA REDDY	Yes
54	19J41A0154	TAGARAM MANOJ DAS	Yes
55	19J41A0155	TAMMISETTI HIMAVAMSI	Yes
56	19J41A0156	THAMMISETTY NAVEEN	Yes
57	19J41A0157	THATI MADHUSAI	No
58	19J41A0158	TUMMA HARSHITHA	Yes
59	19J41A0159	VEERAGONY PRAHARSHA	Yes
60	19J41A0160	VUPPALA SRIHITHA	Yes
61	19J41A0161	ABDUL MUSTAID ALI	Yes
62	19J41A0162	ARRAMREDDY SINDHU	Yes
63	19J41A0163	BAINDLA SUMANTH	Yes
64	19J41A0164	BANOTHU PRIYA BAI	Yes
65	19J41A0165	BASHABOINA KAVERI	Yes
66	19J41A0166	B SAI CHARAN REDDY	Yes
67	19J41A0167	BHUKYA SIDDHU	Yes
68	19J41A0168	BHUPATHI SUMANTH	Yes
69	19J41A0169	BYRAM SAI REDDY	Yes
70	19J41A0170	DASARI JAYARAM	Yes
71	19J41A0171	DIMILI MANI BABU	Yes
72	19J41A0172	DUMPETI SIDDARTHA	Yes
73	19J41A0173	ELLANDULA SHIVA KUMAR	Yes
74	19J41A0174	ENUGULA SHEKAR	Yes
75	19J41A0175	ERPULA KISHORE	Yes
76	19J41A0176	GADDAMWAR SOURAB	Yes
77	19J41A0177	GAJULA MAHESH	Yes
78	19J41A0178	GALLIPALLI SRINIVAS GOUD	Yes
79	19J41A0179	GANGONE SAIPRANAY	Yes
80	19J41A0180	GHALEPPA CHOLA RAJU	Yes
81	19J41A0181	GONELA BHAVANA	Yes
82	19J41A0182	GUDUMASU REVANTH	Yes
83	19J41A0183	GURRAM LAVAN KUMAR	Yes
84	19J41A0184	MIRZA SUFIAN BAIG	Yes



Raees
Principal

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85	19J41A0185	JADAV SANDEEP	Yes
86	19J41A0186	JANAGAM SAIKUMAR	Yes
87	19J41A0187	JANAGAM SANJAY GOUD	Yes
88	19J41A0188	JANAVATH NANDINI	Yes
89	19J41A0189	K UPENDRA	Yes
90	19J41A0190	K SHIVA CHANDRAKANTH GOUD	Yes
91	19J41A0191	KALLEDA AKASH	Yes
92	19J41A0192	KANCHARLA SAGAR	Yes
93	19J41A0193	KASTHALA SHREYA	Yes
94	19J41A0194	KOTHAKAPU VISHWAJEET REDDY	Yes
95	19J41A0195	KUNA VINAYAKA	Yes
96	19J41A0196	KUNDURU SHARAN REDDY	Yes
97	19J41A0197	L NAGESH KUMAR	Yes
98	19J41A0198	MADAGANI TRIVENI	Yes
99	19J41A0199	MANCHIKALAPATI HEMANTH	Yes
100	19J41A01A0	MANGALI SAI PRASAD	Yes
101	19J41A01A1	MOHAMMED ABRAR FAISAL	Yes
102	19J41A01A2	MOHAMMED SADEEQ	Yes
103	19J41A01A3	MOHAMMED THOUSEEF QURESHI	Yes
104	19J41A01A4	NADIMIDODDI PRASHANTH KUMAR	Yes
105	19J41A01A5	NAKKA NARESH	Yes
106	19J41A01A6	NAMA HEMA SRI	Yes
107	19J41A01A7	PASSYA SAI PRABHU REDDY	Yes
108	19J41A01A8	PENTA DURGA PRASAD	Yes
109	19J41A01A9	PODETI PURNA CHANDAR	Yes
110	19J41A01B0	PODUGU RAHUL	Yes
111	19J41A01B1	POLAPELLY SANJANA REDDY	Yes
112	19J41A01B2	POLU TARUN KUMAR REDDY	Yes
113	19J41A01B3	RAJAVARAPU SRINIVAS	Yes
114	19J41A01B4	SEPUR MAHARSHI	Yes
115	19J41A01B5	SHAIK SAZID PASHA	Yes
116	19J41A01B6	SHAIK SHASHAVALLI	Yes
117	19J41A01B7	TALARI SUNNY	Yes
118	19J41A01B8	THULLURU AKASH	Yes
119	19J41A01B9	U GOWTHAM GOUD	Yes
120	19J41A01C0	VARANASI CHARAN KUMAR	Yes
121	19J41A01C1	AREKATIKA NARESH	Yes
122	19J41A01C2	BAGLI MAHESHWARI	Yes
123	19J41A01C3	BANDARI PAVANI	Yes
124	19J41A01C4	BOLLAMPALLY PREM	Yes
125	19J41A01C5	CHERKUPALLI BHASKAR	Yes
126	19J41A01C6	CHINTHALURI SAIKARTHIK	Yes
127	19J41A01C7	CHITHARI SAI DASS	Yes
128	19J41A01C8	DODLA MANIKANTA	Yes
129	19J41A01C9	ELUVAKA RAJKUMAR	Yes
130	19J41A01D0	GARDAS BHUPATHI	Yes
131	19J41A01D1	GODISELA SAI SUNEETH	Yes
132	19J41A01D2	GOLLA RAJESH YADAV	Yes



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133	19J41A01D3	GUGULOTH RAVINDER	Yes
134	19J41A01D4	JANAGAMA SAI MRUDULA	Yes
135	19J41A01D5	KALAM SAI VISHAL REDDY	Yes
136	19J41A01D6	KANCHARLA SAINADH	Yes
137	19J41A01D7	KANNEGANTI GOUTHAM	Yes
138	19J41A01D8	KOTAGIRI PRADEEP	Yes
139	19J41A01D9	KOTHA SANNITH REDDY	Yes
140	19J41A01E0	KOTHAKAPU JYOSHNA	Yes
141	19J41A01E1	KURAPATI SUNNY	Yes
142	19J41A01E2	LOCHARAM NITHIN	Yes
143	19J41A01E3	MALIPEDDI NIKHIL	Yes
144	19J41A01E4	MEDUDULA SRI KRISHNA	Yes
145	19J41A01E5	MOHAMMED ARBAAZ	Yes
146	19J41A01E6	MOHD NADEEM	Yes
147	19J41A01E7	MULLAPATI PAVAN	Yes
148	19J41A01E8	MYAKALA GOPICHAND	Yes
149	19J41A01E9	PAISA HEMALATHA	Yes
150	19J41A01F0	PALVAI NAVYA	Yes
151	19J41A01F1	PATIL SANTHOSH	Yes
152	19J41A01F2	PENUKA SHASHIVARUN	Yes
153	19J41A01F3	RENAMALA KRANTHI	Yes
154	19J41A01F4	SAGE VINAY	Yes
155	19J41A01F5	SOMARATHI KEERTHAN	Yes
156	19J41A01F6	SAMBHANGI TEENA HARSHITHA	Yes
157	19J41A01F7	SIRIKONDA ABHI	Yes
158	19J41A01F8	THANGELLA HARSHA VARDHAN	Yes
159	19J41A01F9	VANGA PAVAN KUMAR	Yes
160	19J41A01G0	VEERANKI HARI VENKATA SAI	Yes
161	19J41A01G1	VINJAMURU ABHISHEK	Yes
162	19J41A01G2	BUDDAMALLA SANTOSH KUMAR	Yes
163	19J41A01G3	RATHOD AMARDEEP	Yes
164	19J41A01G4	GAJARAJU SANDEEP	Yes
165	19J41A01G5	BHUKYA SIDHARTHA NAYAK	Yes
166	19J41A01G6	JAGANNADHAM VENKATESH	Yes
167	19J41A01G7	MADAPA PRASHANTH	Yes
168	19J41A01G8	KAMMARI SAITEJA	Yes
169	19J41A01G9	BANAVATHU YUVARAJ	Yes
170	19J41A01H0	G VENKATA KRISHNA BABU	Yes
171	19J41A01H1	BODDAM VIGNESH	Yes
172	19J41D2002	ALLAM ARAVIND KUMAR	Yes

Raveendh
Principal

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[Signature]
HOD/CE





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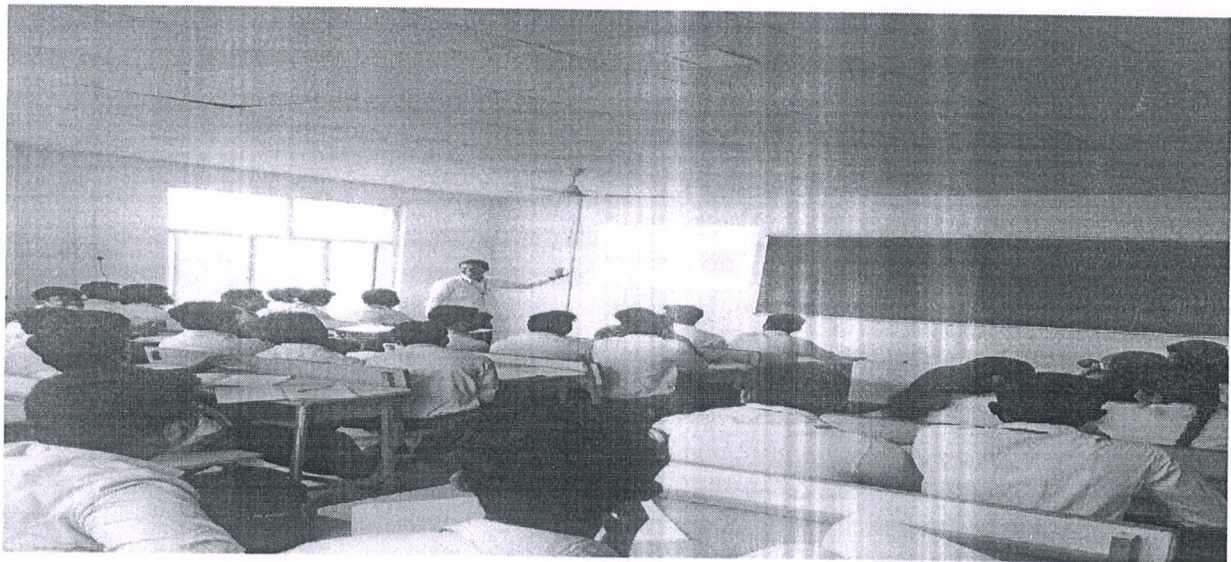
DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR: 2019-20
SUMMARY REPORT


Value Added course name: Surveying using Total Station

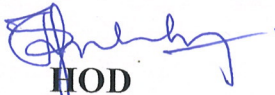
Value Added course Instructor: Dr.Ashok Kumar


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


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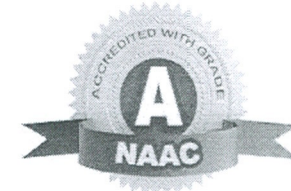


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CERTIFICATE OF COMPLETION


This is to certify that Mr./Ms. JANAGAM SAIKUMAR bearing
Roll No. 19J41A0186 has successfully completed Certificate / Value Added
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by the Department of Civil Engineering from 18/07/2019 to 22/07/2019


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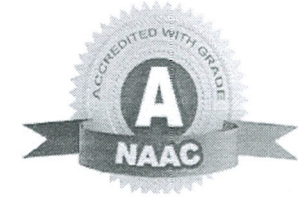


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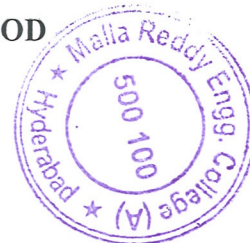


CERTIFICATE OF COMPLETION


This is to certify that Mr./Ms. JANAGAM SANJAY GOUD bearing
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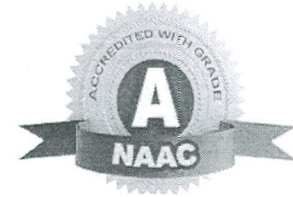


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This is to certify that Mr./Ms. JANAVATH NANDINI bearing
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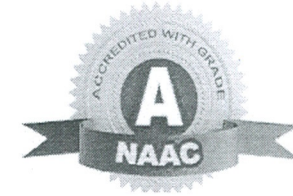


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This is to certify that Mr./Ms. K UPENDRA bearing
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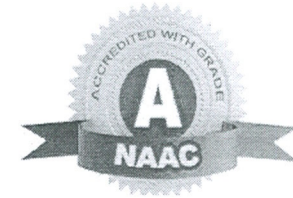


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This is to certify that Mr./Ms. K SHIVA CHANDRAKANTH bearing
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