



# **DADI INSTITUTE OF ENGINEERING & TECHNOLOGY**

(Approved by A.I.C.T.E., New Delhi & Affiliated to JNTUK, Kakinada)

**A NAAC Accredited Institute**

An ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution  
NH-5, Anakapalle – 531002, Visakhapatnam, A.P.

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## **CIRCULAR**

Anakapalle

Dt:- 4-9-2017

Department of Civil Engineering is hereby informed that, in view of the feedback received from IV B.Tech. Civil students regarding skill enhancement and to improve the expertise of students to Total Station Survey, HOD is advised to depute a faculty from Civil to design and develop a suitable course structure in line with the basic skills which are essential for the surveyor to IV B.Tech. Civil students with over 30 working hours. Please ensure that this Add-on course helps them to Determine and evaluate accuracy and precision of GPS RTK and TLS methods. Make arrangements to deliver the course from next week onwards.

**PRINCIPAL**



# Dadi Institute of Engineering & Technology

Approved by AICTE & Affiliated to JNTUK  
An ISO 9001:2008, 14001:2004 & OHSAS 18001:2007 Certified Institute, NH-5,  
Vizakhapatnam, Andhra Pradesh

Organized by

Department of CIVIL Engineering

A Two Week

(11-09-2017 to 23-09-2017)

Training Program on

**“Total Station Survey”**

## About the Institute

Dadi Institute of Engineering & Technology is a top ranked Engineering and Management College affiliated to Jawaharlal Nehru Technological University, Kakinada. The Institute is NAAC Accredited, ISO Certified and also associated with many professional bodies in the field of Engineering, Technology and Management. It strives to promote the highest standards among the students and enable them to build a New World. Dadi Institute of Engineering & Technology is distinctive among institutions of higher learning. Founded in 2006 by Sri Dadi Veerabhadra Rao, an academicians and former Minister as the first multicultural and co- educational college in Anakapalle which admits only academically promising students.

## About CIVIL Department

The Department of Civil Engineering was established in the year 2011, with an annual intake of 60 students for B.Tech. Programs. Department also offers Diploma in Civil Engineering with an intake of 60 seats, which was established in the year 2013. The Civil Department is well equipped with spacious laboratories and experienced technicians. The department of Civil Engineering also offers various consultancy works. Apart from academic, the students get indulged in laboratory experiments with various consultancy works under the Civil Engineering Technology Association (CETA) Club Activities.

## About the course

Every one can become civil engineer but to become a good surveyor they need special skills and digital surveying techniques. Total station is one such instrument which has made survey much easier and user friendly. It works on the principle of electronic distance measurement technique. Basic skills are essential for the surveyor for his good career, we have given all inputs required for self learning.

**Course Instructor: Mr. M RVSG Gupta, Asst. Prof. CIVIL Department**

# Department of Civil Engineering

## Total Station Survey – Add On course

### Course Instructor:

Mr M RVSG GUPTHA,  
Assistant Professor, CIVIL Department  
Dadi Institute of Engineering & Technology

### Duration:

2 weeks: (11-09-2017 to 23-09-2017)

### Overview & Need of the Course:

Every one can become civil engineer but to become a good surveyor they need special skills and digital surveying techniques. Total station is one such instrument which has made survey much easier and user friendly. it works on the principle of electronic distance measurement techniques. basic skills are essential for the surveyor for his good carrier. we have given all inputs required for self learning.

### Objective of the Total Station survey:

Determine and evaluate precision of the reference network which can be served as a reference value for comparison with RTK and TLS

- Determine and evaluate accuracy and precision of GPS RTK and TLS methods
- Determine the cost (time expenditure) of the three methods
- Compare results of the methods based on RMS and standard deviation analysis
- Forward possible recommendations that can improve the precision and accuracy of the three measurement methods

### Requirements

- ❖ Basic Knowledge on Leveling

❖ Basic Terminologies in surveying .

Course Contents

Chapter 1:

Introduction

Instrumentation

Accuracy of a Total Station:

Accuracy & Precision

Total station can be used

Chapter 2

Accessories for Total Station

Functions Performed By Total Stations

Chapter 3

Operation of Total Station

Remotely Operated Total Station (ROBOTIC)

Features Include:

Chapter 4

Applications of Total Station

Uses of Total Station













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## Course Completion Certificate

THIS CERTIFICATE IS GIVEN TO

**L MURALI KRISHNA**

FOR SUCCESSFUL COMPLETION OF 2 WEEKS COURSE ON  
TRAINING ON TOTAL STATION FROM 11-09-2017 TO 23-09-2017

M RVSG Gupta  
Coordinator

Dr. M VENUGOPAL RAO  
Principal

Sri Dadi Ratnakar  
Chairman

VISAKHAPATNAM, ANDHRA PRADESH, DIET.EDU.IN

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Coordinator

Dr. M VENUGOPAL RAO  
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Chairman



**DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
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**STUDENT FEEDBACK FORM**

Dear Candidate,

Your feedback is critical for the Institute to ensure that we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinions with us so that we can serve you better.

Title of the Activity: Total Station

Date/Duration: 11-9-17 to 23-9-17 Instructor/Coordinator: MR VSG Gupta

- |   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1. The content was as described in Publicity Material                                       | 1 | 2 | 3 | 4 | 5 |
| 2. The program was helpful in practical understanding                                       | 1 | 2 | 3 | 4 | 5 |
| 3. I will recommend this course/workshop program to relevant conservators across our campus | 1 | 2 | 3 | 4 | 5 |
| 4. The program was well placed within allotted time   | 1 | 2 | 3 | 4 | 5 |
| 5. The instructor was an effective communicator   | 1 | 2 | 3 | 4 | 5 |

Feedback Suggestions

very good session  
I learned new  
technology.

Please return this form to the Course Instructor/Organizer/Coordinator at the end of the workshop/add-on course/Training Program



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Feedback Suggestions

Good  
session -  
need more like  
this course

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