



KARPAGAM ACADEMY OF HIGHER EDUCATION
(Deemed to be University Established Under Section 3 of U.G.C. Act 1956)
Coimbatore - 641 021, Tamil Nadu, INDIA.
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Department of Civil Engineering

Cordially invites you for the
One Day National Level Hands on training
Programme
On

**"DIGITAL LAND SURVEYING TECHNIQUES
USING TOTAL STATION"**

Dr. S. SUDALAIMUTHU

Vice Chancellor
Karpagam Academy of Higher Education
Presides

Resource Person

Dr. J. SANKAR

Consulting Engineer
SURRYA BUILDERS

Organizing Secretaries

Dr.N.Balasundaram / Professor
Dr.M.Natarajan / Professor
Mr. V. Johnpaul / Assistant Professor
Department of Civil Engineering
KAHE

Date & Venue:

30th January 2020 & MBA Seminar Hall





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Pollachi Main Road, Eachanari Post, Eachanari, Coimbatore
Tamil Nadu 641021

DEPARTMENT OF CIVIL ENGINEERING

HANDS ON TRAINING PROGRAMME REPORT

DIGITAL LAND SURVEYING TECHNIQUES USING TOTAL STATION

Date: 31.01.2020

Topic: Digital Land Surveying Techniques Using Total Station

Expert Name: Dr. J. Sankar, Consulting Engineer, SURRYA Builders, Salem.

Date: 30.01.2020 (FN & AN)

Venue: MBA Hall and Open Auditorium

SUMMARY:

Need for the Topic

In modern Surveying, total station instrument is widely used for many applications like highway and railway alignment, tunneling and also for accurate measurements of areas rapidly with greater accuracy.

Key Points Discussed:

- Introduction to Surveying
- Applications of Total Station
- Advantages of total station over other instruments
- Number Code of Civil Engineers
- Getting the details from FMB(Field Measurement Book)
- Getting the required details in CAD drawing by importing the points from total station
- Handling of total station instrument
- Various parts of Total Station
- Setting out and temporary adjustments of Total Station
- Recording readings of various points in field and maintaining manual record of points.



Honoring of Resource person (Dr. J. Sankar, Consulting Engineer, SURRYA Builders, Salem) with memento (30-01-2020, at MBA Hall)



Honoring the Resource person with shawl (30-01-2020, at MBA Hall)



Speech by Resource Person (30-01-2020, at MBA Hall)



All participants assembled in field to gather practical knowledge (30-01-2020, at Open Auditorium)



Explaining on Temporary adjustment of Total Station (30-01-2020, at Open Auditorium)



Explanations given by resource person and his team (30-01-2020, at Open Auditorium)

Session Outcome:

At the end of the session the following techniques were gained

1. A detailed knowledge of total Station instrument.
2. Handling, setting and temporary adjustments of the instrument.
3. By operating the instruments we learnt techniques of creating job id, focusing the target, recording and storing the readings, transferring the data to system and preparation of sketch using the software in system.
4. Getting the details of the points recorded through total station.