



# **SNS COLLEGE OF TECHNOLOGY**

**An Autonomous Institution  
Coimbatore - 35**

Accredited by NBA – AICTE and Accredited by NACC – UGC with ‘A++’ Grade  
Approved by AICTE , New Delhi and Affiliated to Anna University , Chennai.

## **DEPARTMENT OF AGRICULTURAL ENGINEERING**

**23AGT204 – SURVEYING AND LEVELLING**

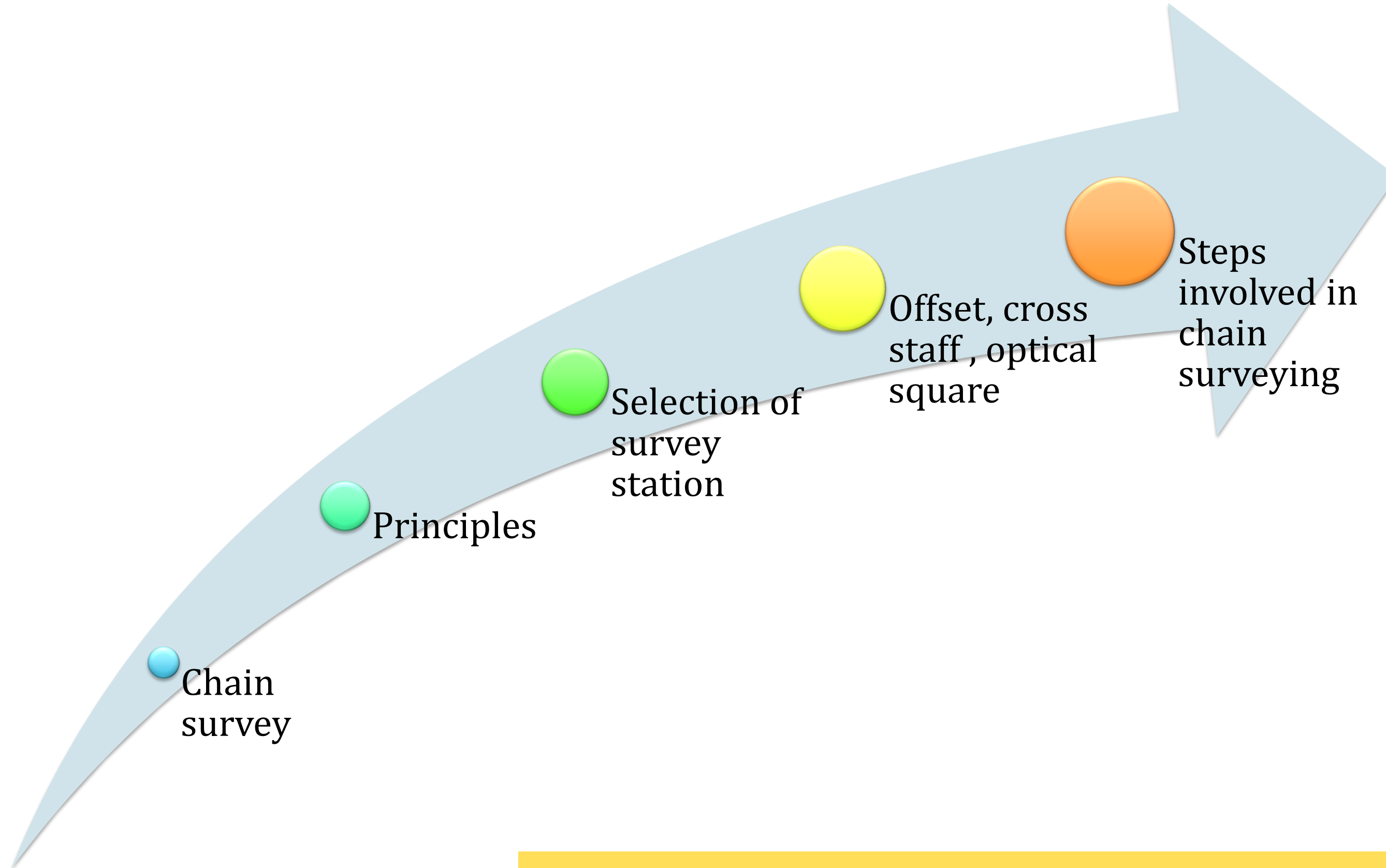
**II – YEAR III SEMESTER**

**UNIT 3 – LINEAR MEASUREMENT AND COMPUTATION OF AREA, VOLUME**

**TOPIC 2 – TRADITIONAL DISTANCE MEASUREMENT, EQUIPMENT FOR TRADITIONAL  
METHODS**



# Last Class Review





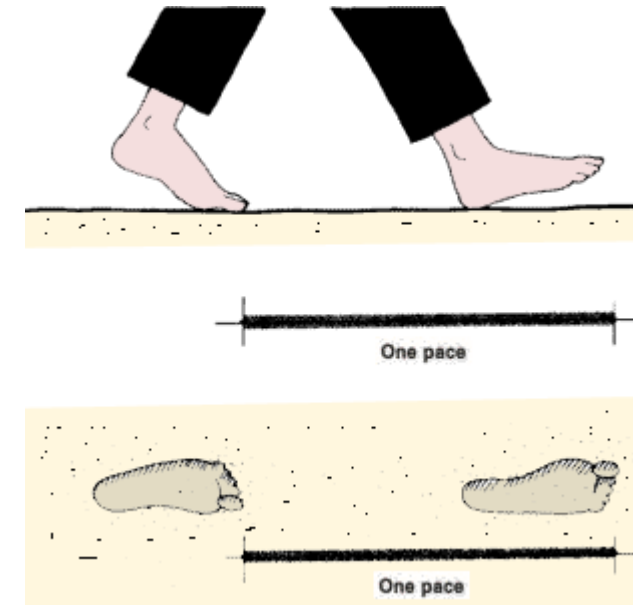
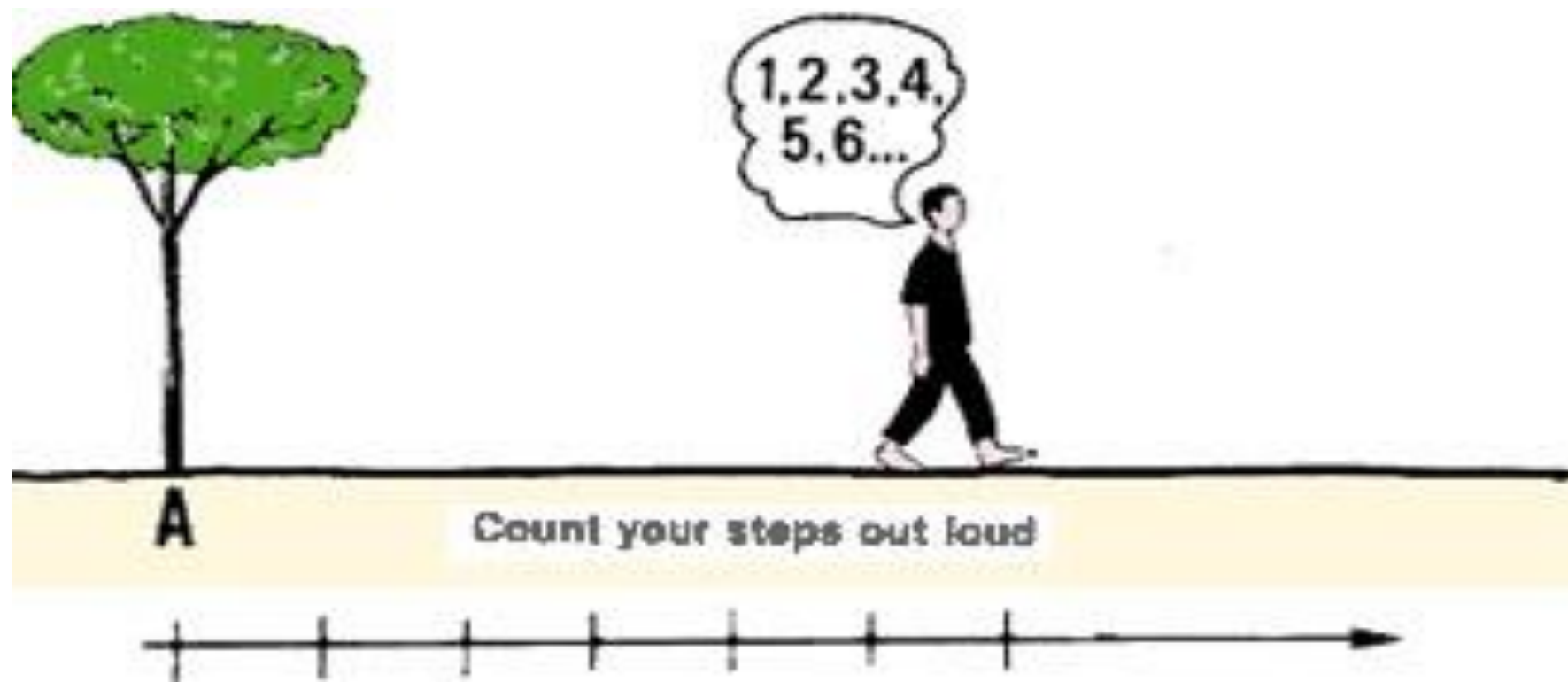
# Direct Methods

- Judging the distance
- Pacing
- Time Interval



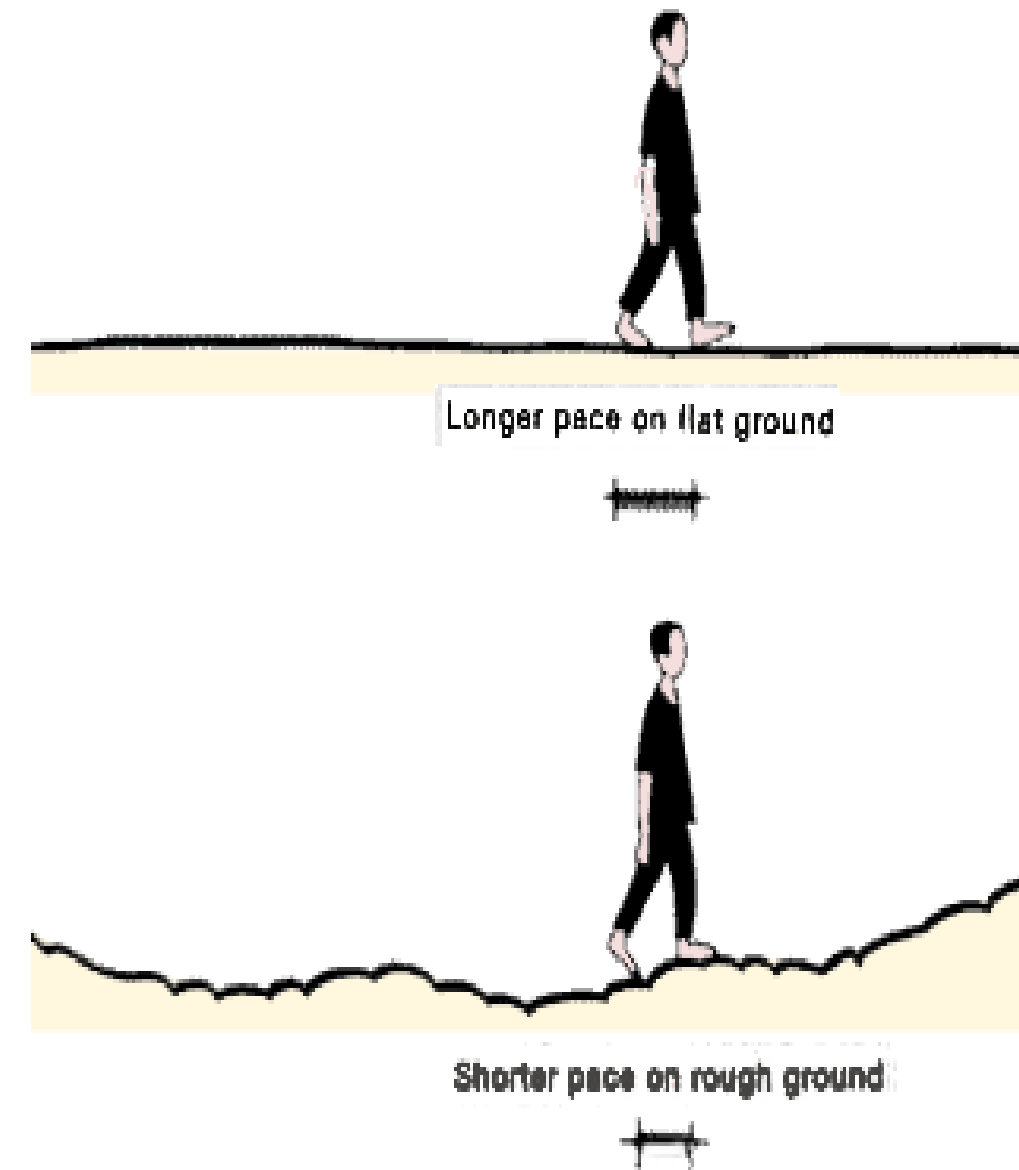
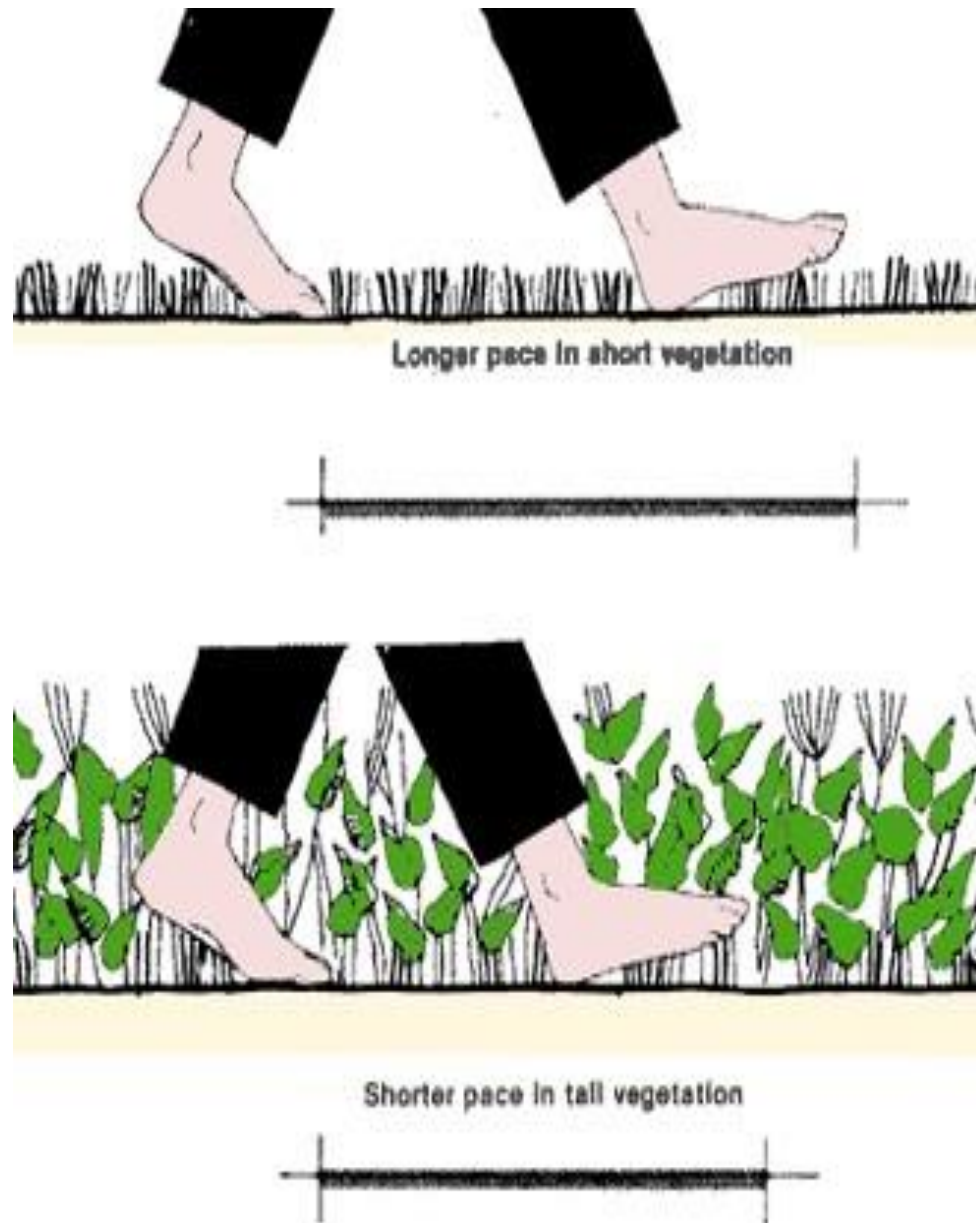


# Pacing





# Pacing





# Direct Methods with instruments

**Chain**

**Odometer**

**Passometer**

**Pedometer**

**Speedometer**



# Assessment

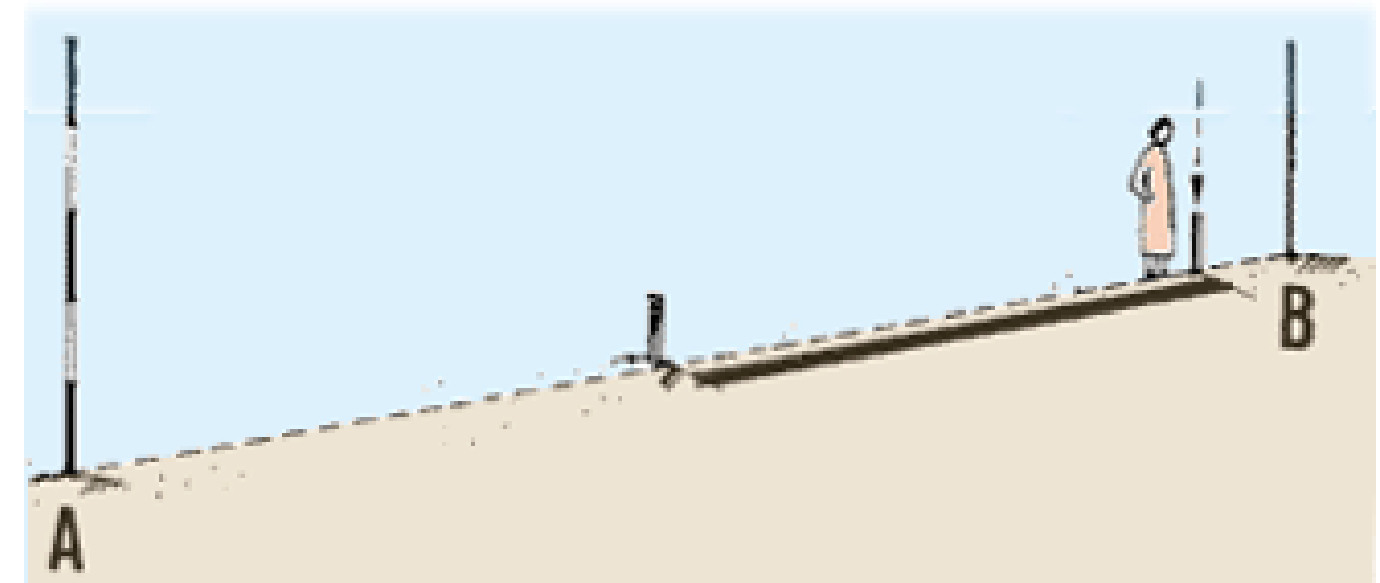
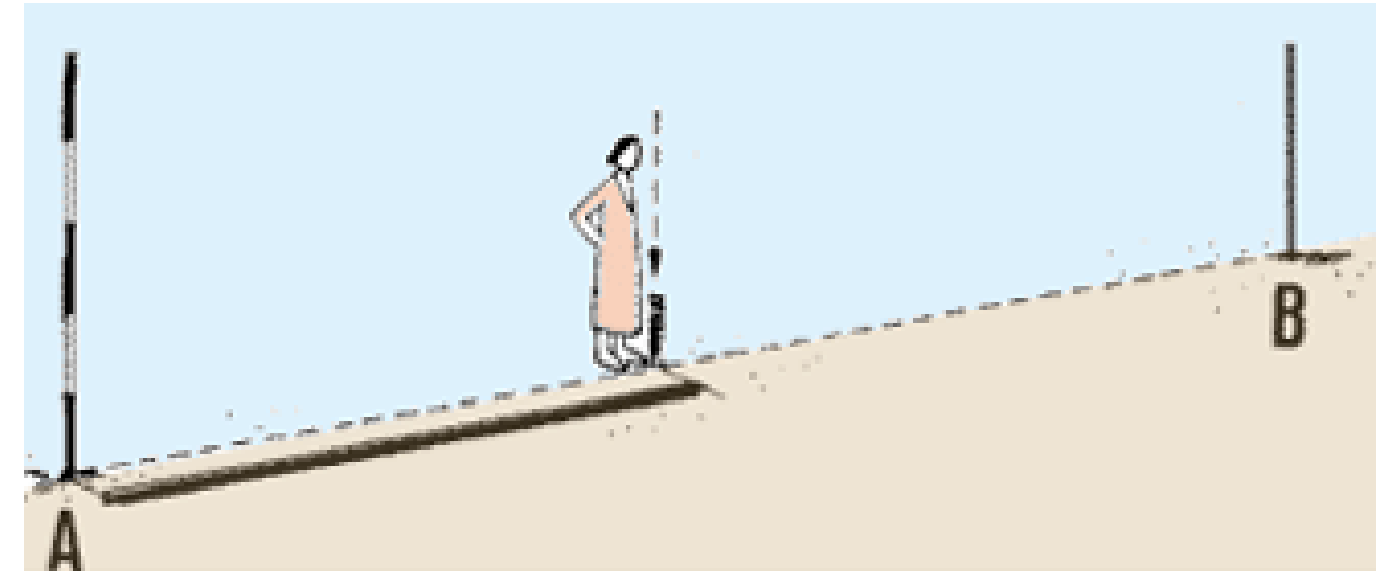


- **What is levelling**





# Chain







# Odometer

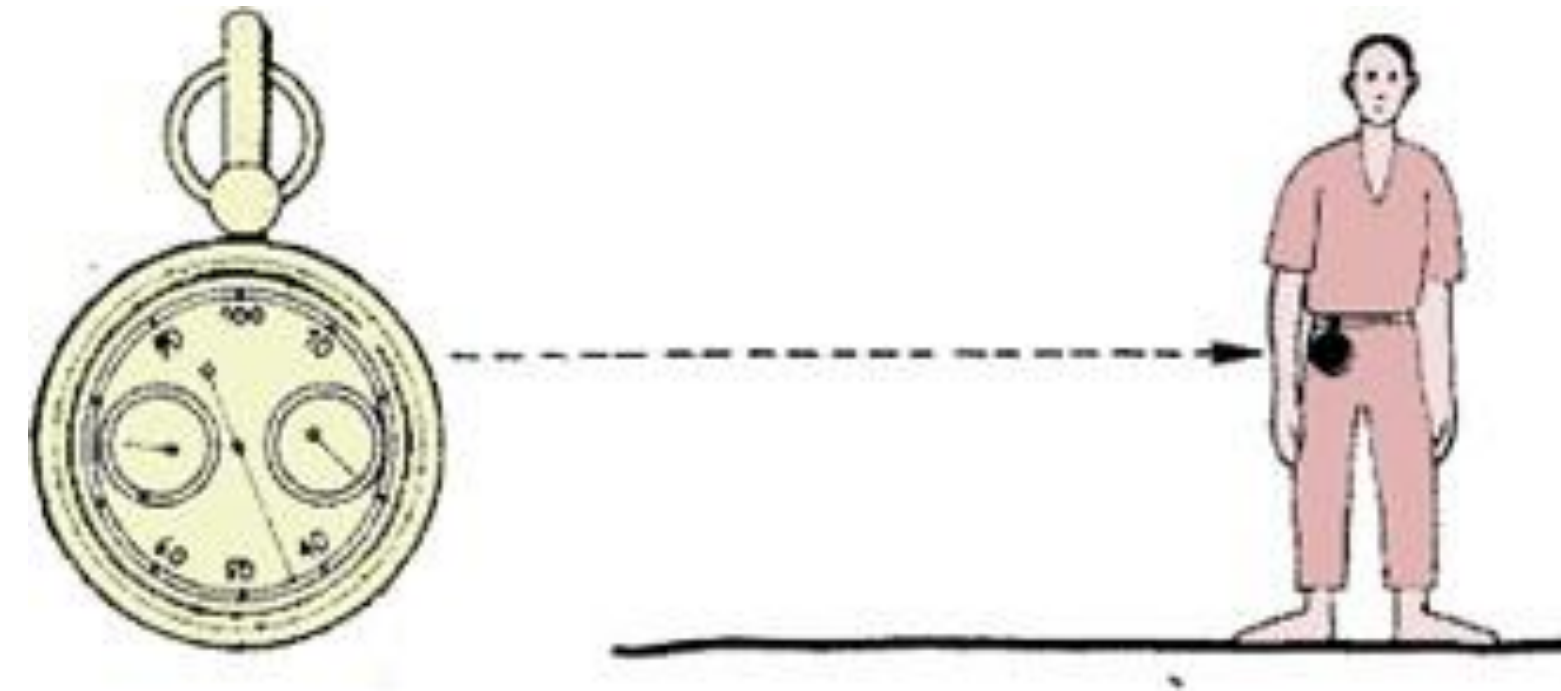


An Odometer is a simple device which can be attached to the wheel of a bicycle or any such vehicle.





# Passometer





# Pedometer





# Reference Videos

Linear Measurement & chain survey

Scale:  
Scale is the technique through which ground measurement can be represented on a paper.

$$\text{Scale} = \frac{\text{Map distance}}{\text{ground distance}}$$

Example:  $\begin{matrix} \text{M-D} & \text{G-D} \\ \downarrow & \downarrow \\ 1\text{cm} & = & 10\text{m} \end{matrix}$

$$\text{Scale} = \frac{\text{Map distance}}{\text{ground distance}}$$



**See You at Next Class!!!!**