



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

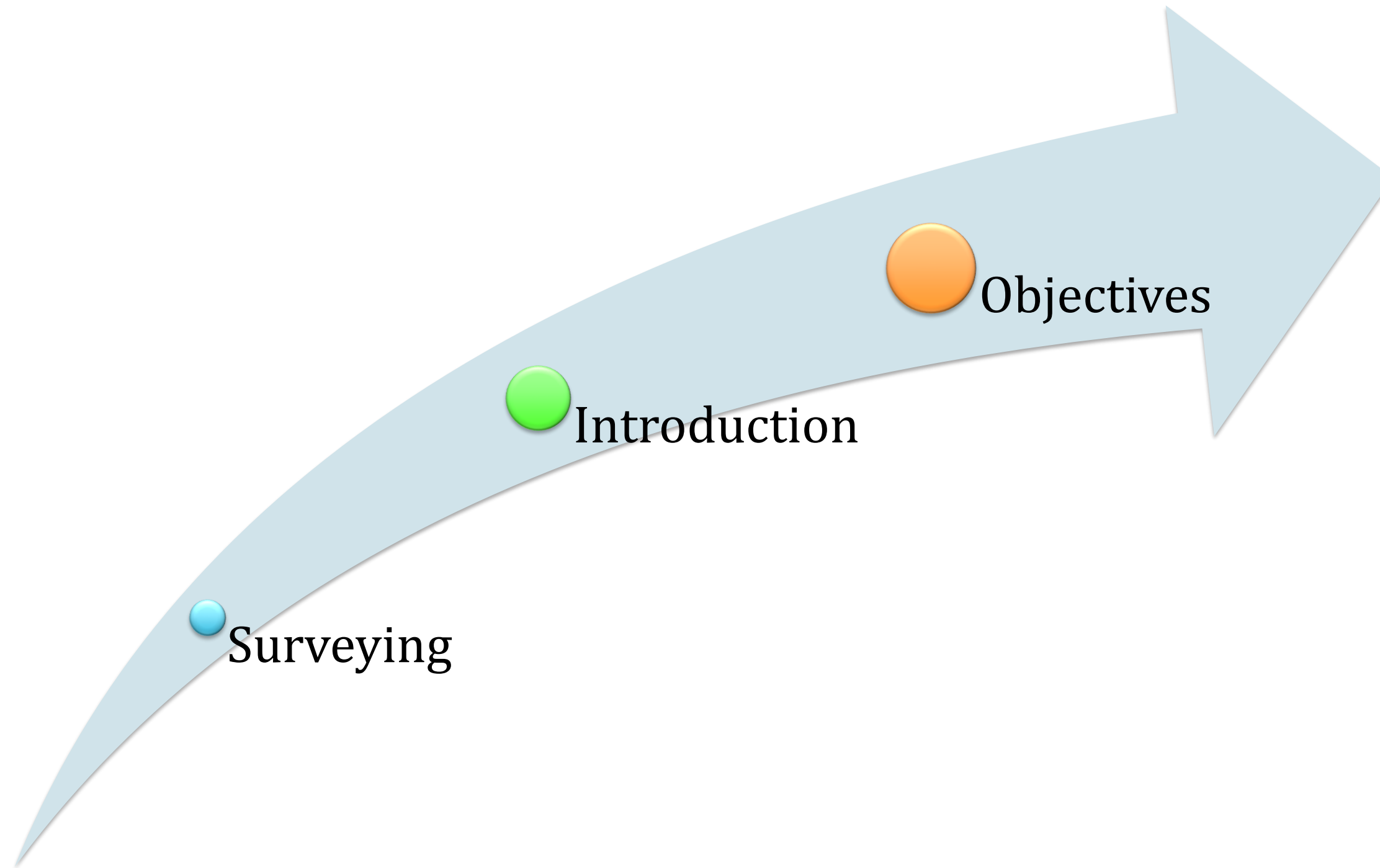
II – YEAR III SEMESTER

UNIT 1 – OVERVIEW AND CLASSIFICATION OF SURVEYING

TOPIC 2 – PRINCIPLES, BASIC CONCEPTS AND USES

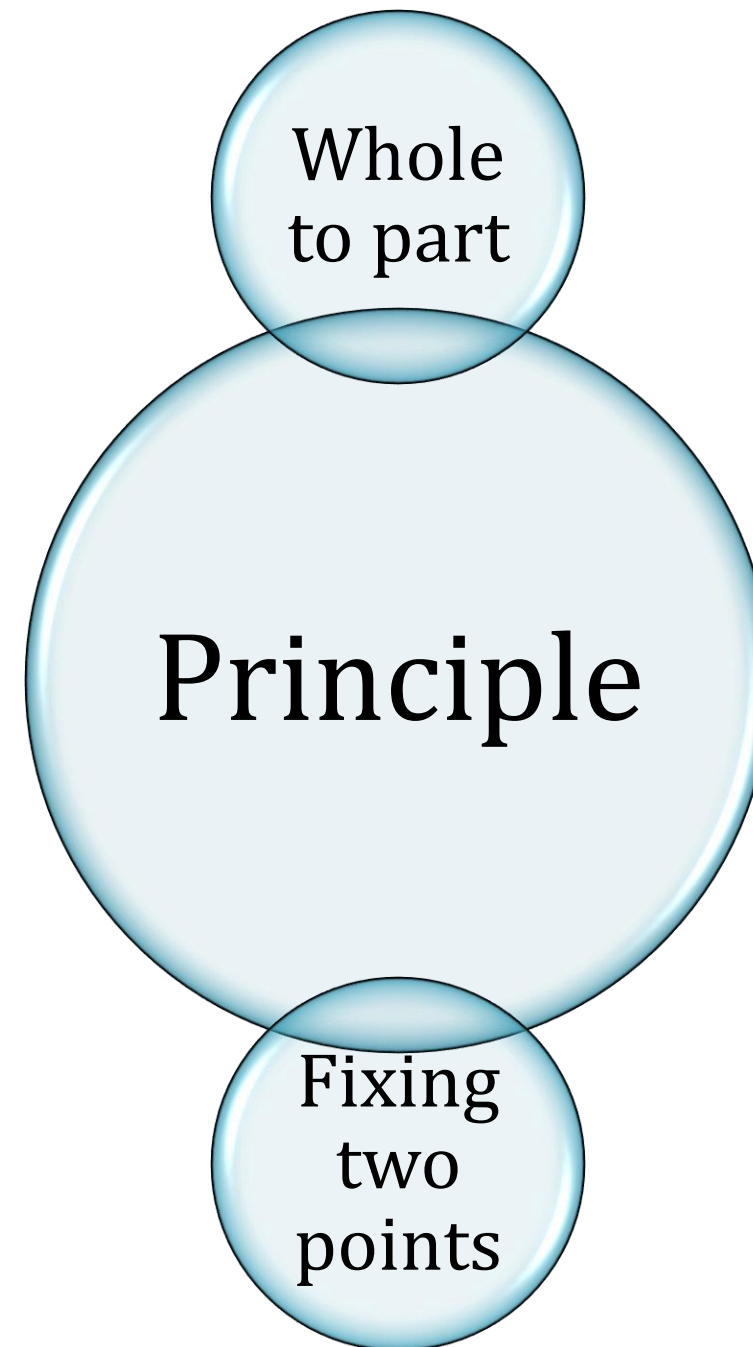


Last Class Review





Principles!!!!





Working from whole to part



- ❖ Main principle is to work from whole to part
- ❖ At extensive areas survey done by establishing system of control points
- ❖ Line joining these will form skeleton of the survey
- ❖ From the points area is established by triangulation or traverse method





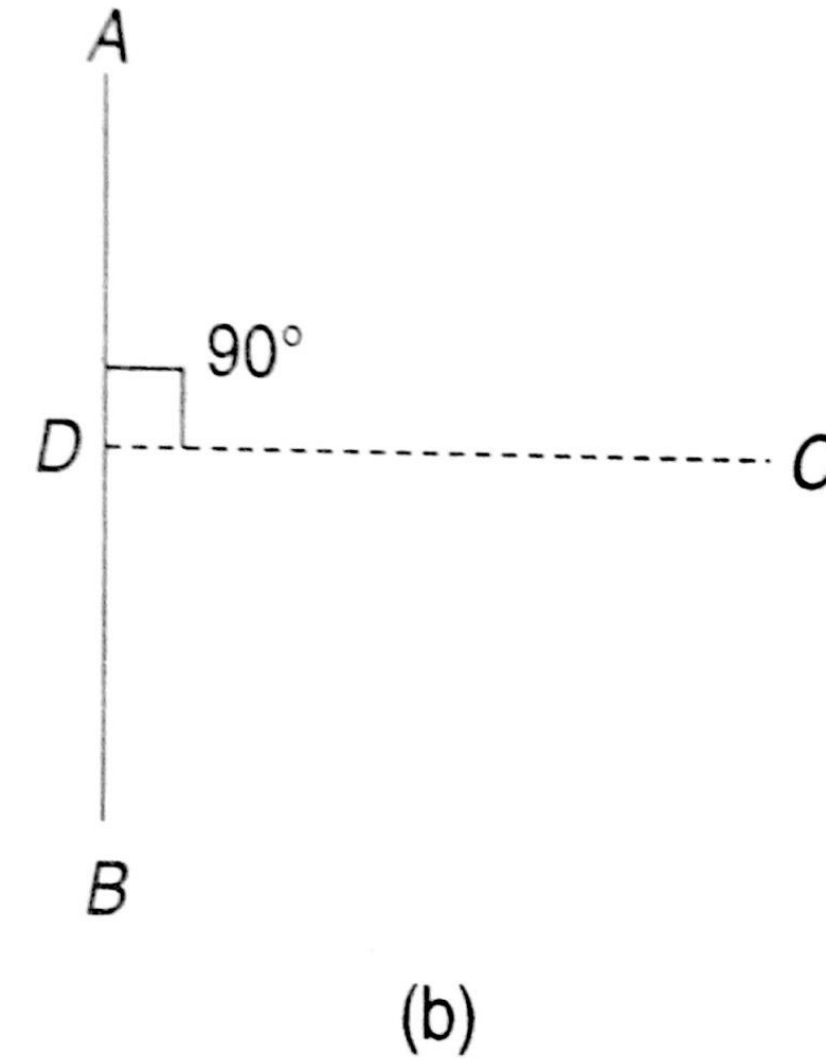
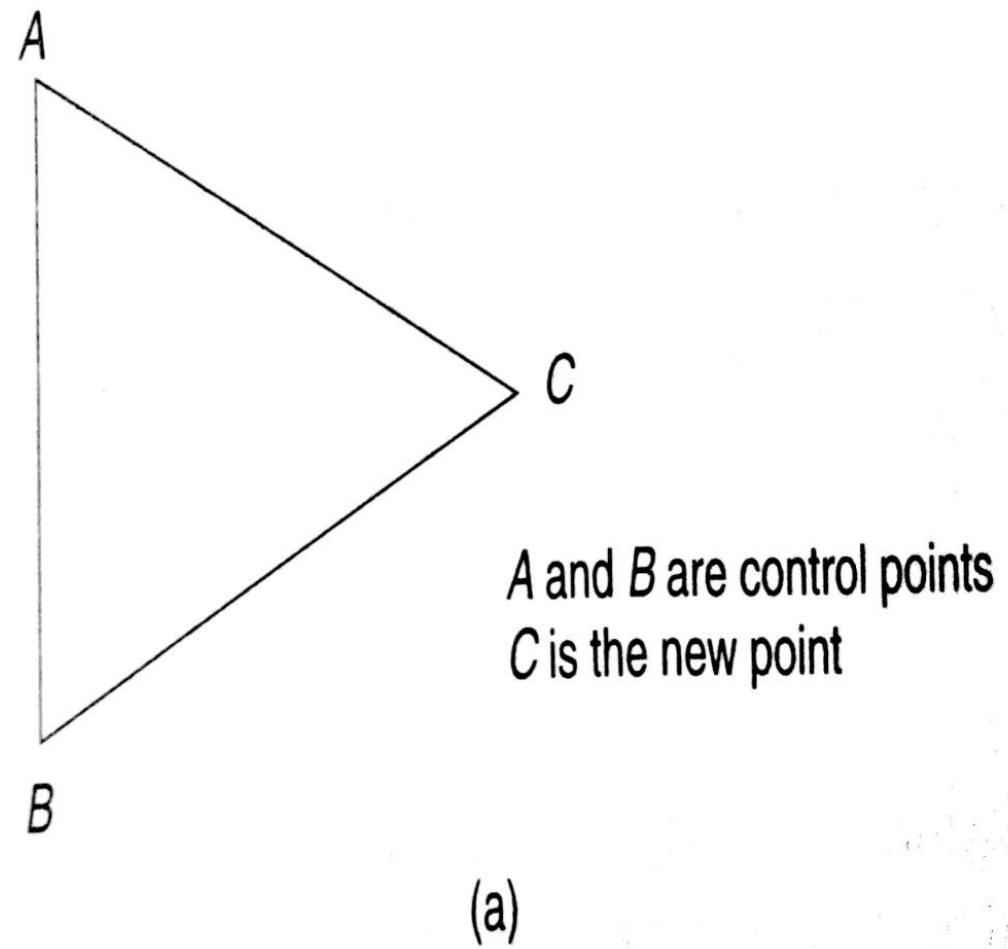
Fixing new points



- ❖ The position of third point may be fixed by drawing an arc by measuring the distances.
- ❖ By making a perpendicular from point c to the base line AB.
- ❖ Helps to check the accuracy



Principles of Surveying





Assessment

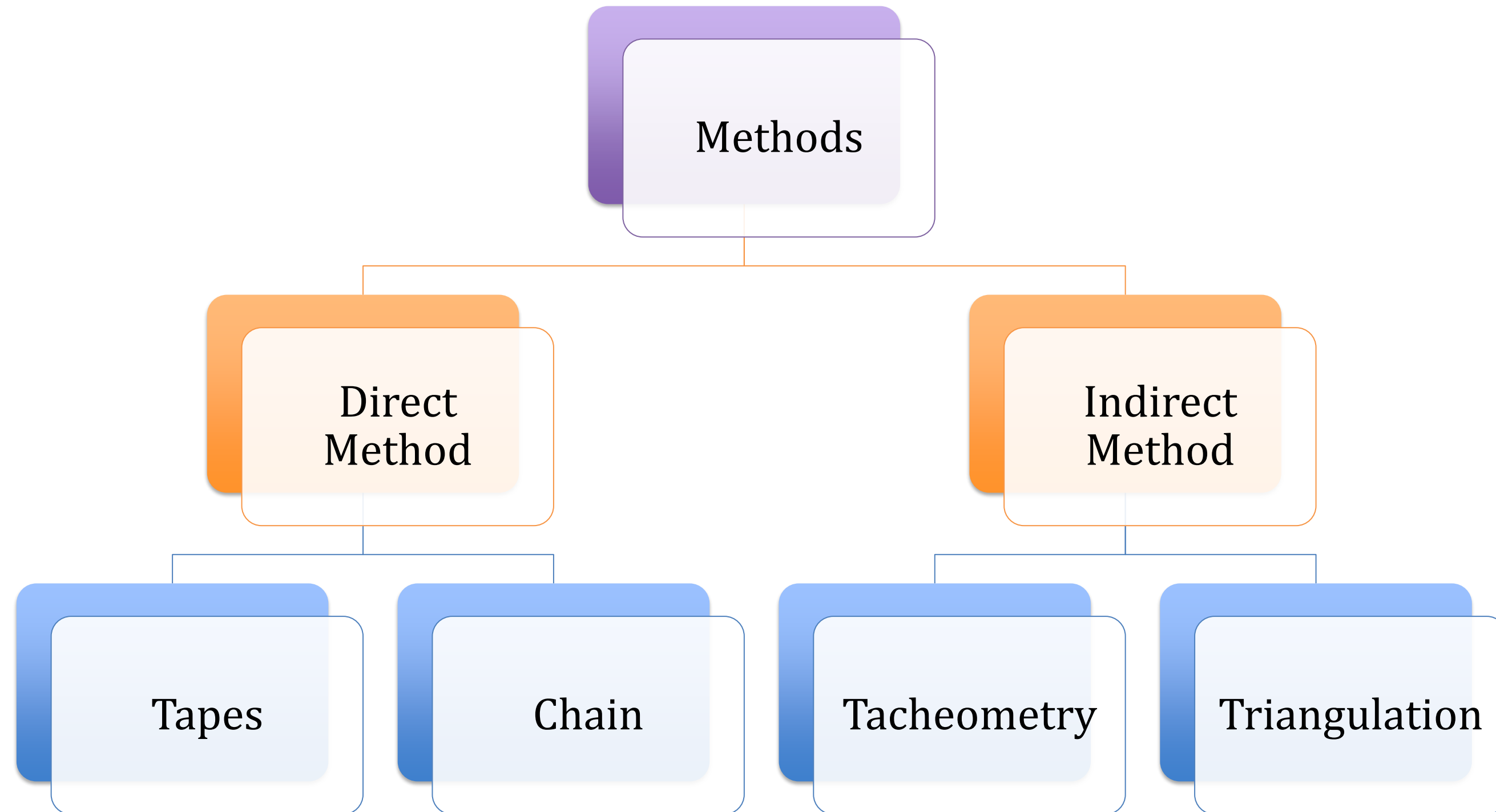


- **How to do we measure the distance**
- **How to make sure the details are accurate**





Measurement of distances





Uses!!!!



- To prepare a topographical map
- To prepare a cadastral map
- To prepare engineering map
- To prepare a contour map
- To prepare military , geological, archaeological map
- For setting out work and transferring details from the map on the ground





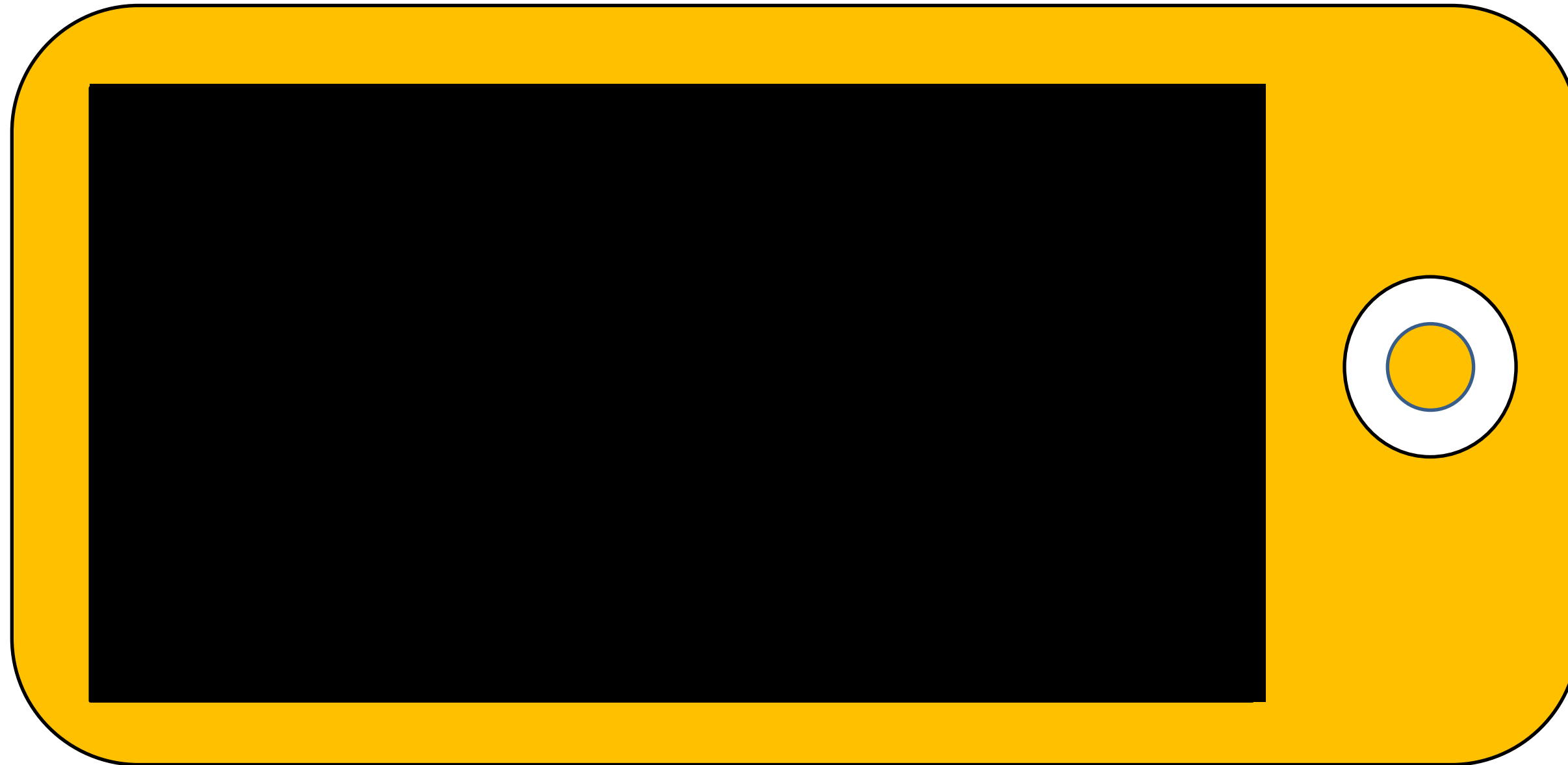
Uses of Surveyor!!!



- ❖ Surveying the diagnostic cast
- ❖ Tripoding the cast
- ❖ Transferring tripod marks to another cast
- ❖ Contouring wax patterns



Reference Videos





See You at Next Class!!!!