

Engineering Surveying

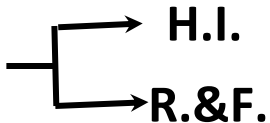


3rd Stage

Syllabus

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Syllabus of Engineering Surveying

- Introduction "Engineering Surveying"
- Leveling 
 - H.I.
 - R.&F.
- Applications of leveling 
 - Profile
 - Cross-Section
- Tacheometry (X,Y,Z) → Compute Coordinate
- Areas, Unite of Areas 
 - Non uniform Figures Area
 - Uniform Figures Area

Nonuniform Figures Areas

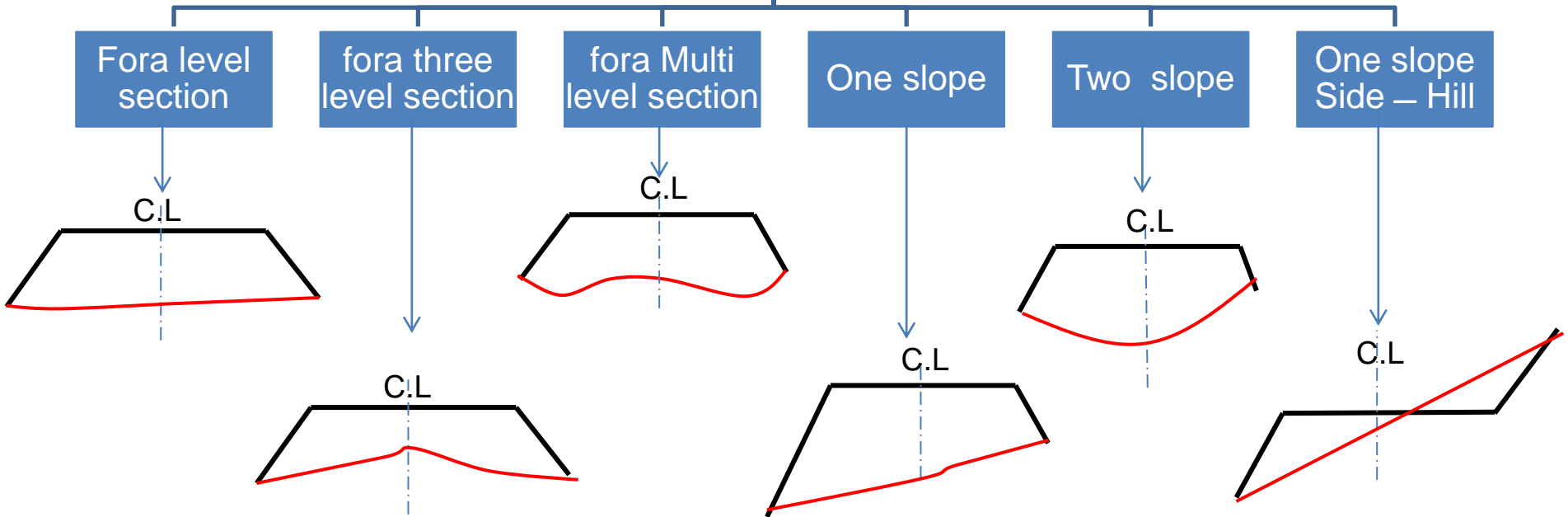
- Field measurement

- Setting out offsets at Irregular Intervals
- Setting out offsets at Regular Intervals
- D.M.D (Double Meridian Distance)
- Using coordinates
- Division in to triangle

- From map

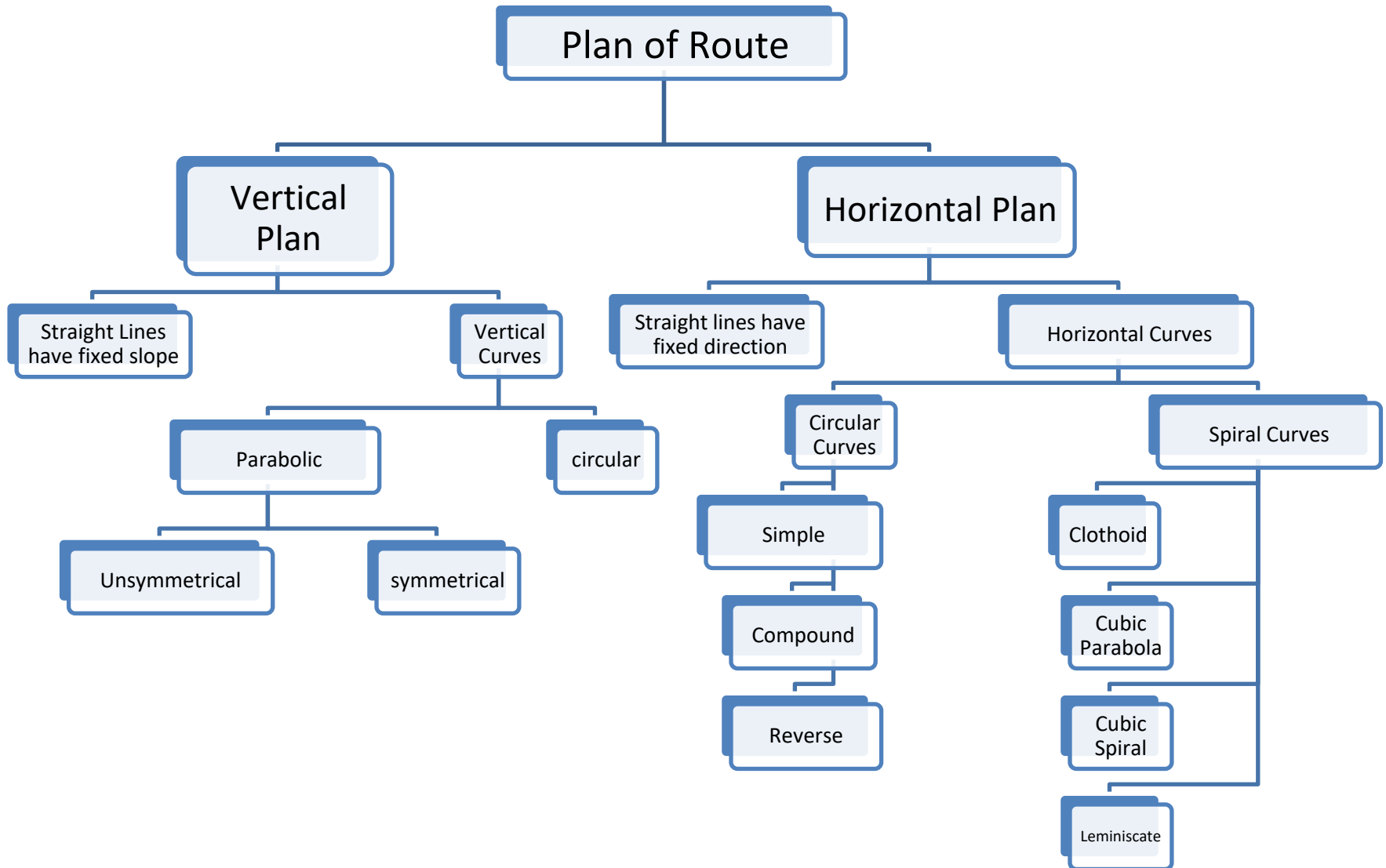
Area of Cross - Section

Shape of ground



- Volumes
- Volume of Barrow Pit
- Volume from Contours

Route surveying



Route surveying

- Vertical curve ,types of V.C
 - Convex curve V.C
 - concave curve V.C
- Methods of setting out vertical curve
- Horizontal curve , types of H.C
- Methods of setting out horizontal curve

Referans

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