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Module - 1

● Briefly explain the role of Civil Engineers in the infrastructure development of country.

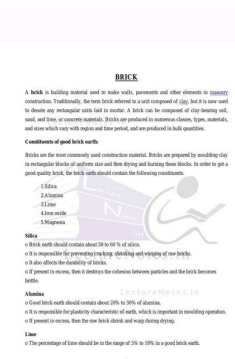
- Construction of roads, railway, ports, harbors and airports
- Construction of dams and proper utilization of water resources
- Construction of Housing, commercial and industrial complexes
- Maintenance of facilities
- Rebuilding, Rehabilitation, Retrofitting and Repair.

● Explain briefly the scope of Civil Engineering in:

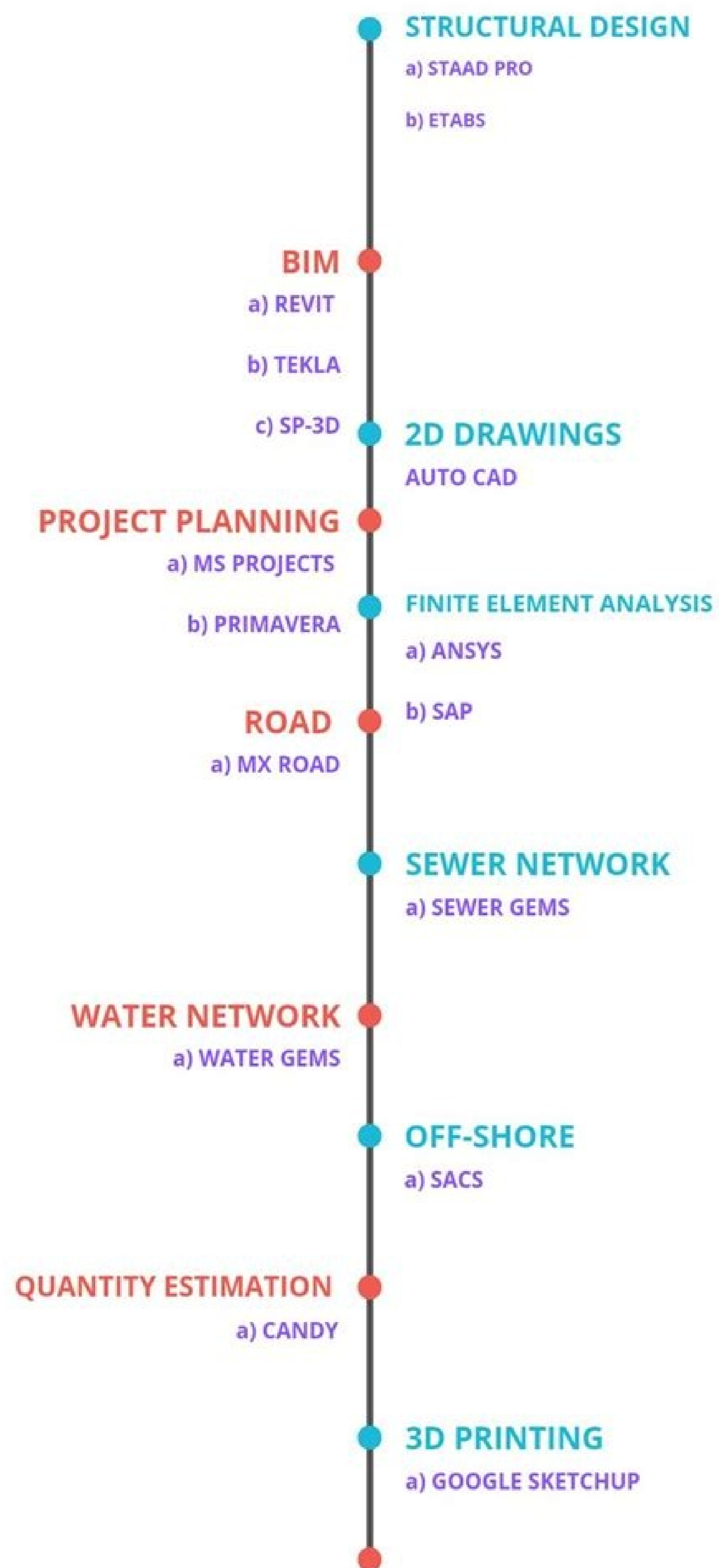
a) Water resources engineering b) Geotechnical Engineering

a) **Water Resources and Irrigation Engineering:** Irrigation is the process of supplying water by artificial means to agricultural fields for raising crops. Since rainfall in an area is insufficient or unpredictable in an area, water flowing in a river can be stored by constructing dams and diverting the water into the canals & conveyed to the agricultural fields.

b) **Geotechnical Engineering:** This branch of civil engineering deals with the study of soil, its behaviors on the application of load. Determination of important physical and engineering properties of soil lying underneath is the major application of geotechnical engineering. . All structures built on earth transfer the superimposed loads to the ground (soil / rock) underneath, through appropriate foundation.



CIVIL ENGINEERING SOFTWARES



Content

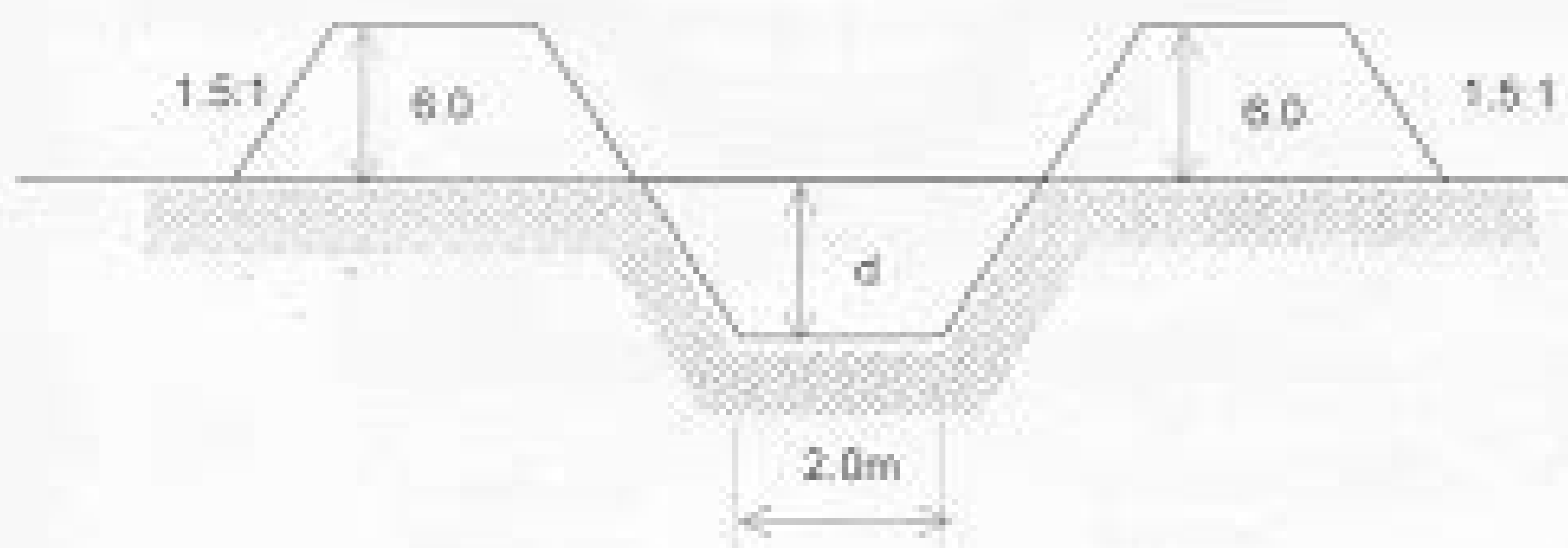
- Construction materials
- Properties of materials
- Stone
- Bricks
- Lime
- Cement
- Sand
- Aggregate



Example 2.4

Determine the volume of cut (imported soil) required for an open earth canal at 40 m length as shown below. Also determine the total area to be turfed to protect the canal.

The depth of cut 'd' is 3.0 m at chainage 00, 5.0m at chainage 2 and 6.0 m at chainage 4.



Cut

Volume of cut

$$A_0 = bd_0 + sd_0^2 = (2 \times 3) + (1.5 \times 3^2) = 19.5 \text{ m}^2$$
$$A_{20} = bd_{20} + sd_{20}^2 = (2 \times 5) + (1.5 \times 5^2) = 47.5 \text{ m}^2$$
$$A_{40} = bd_{40} + sd_{40}^2 = (2 \times 6) + (1.5 \times 6^2) = 66 \text{ m}^2$$

Vol. of cut

$$V_1 = \frac{A_0 + A_{20}}{2} \times 20 = \frac{19.5 + 47.5}{2} \times 20 = 670 \text{ m}^3$$
$$V_2 = \frac{A_{20} + A_{40}}{2} \times 20 = \frac{47.5 + 66}{2} \times 20 = 1135 \text{ m}^3$$

Total volume of cut

$$= V_1 + V_2 = 670 + 1135 = 1805 \text{ m}^3$$

Fill volume

$$= (bd + sd^2) \times l \times 2 = [(2 \times 6) + (1.5 \times 6^2)] \times 40 \times 2 = 5280 \text{ m}^3$$

Imported soil

$$= \text{Fill volume} - \text{cut volume} = 5280 - 1805 = 3475 \text{ m}^3$$

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The students will have to answer five complete questions by selecting a complete question of each module.Click here to download the previous year's question model to download the question from the previous year Paperclick here for Bank Question Book: R. R. Super-super elevation, projÁ © til movement, relative movement, numerous problems. Support for reactions, analysis of simple and centroid tresions, R. Beer and E. 4. Locate the centroid and calculate the start time of regular and built sets. (RBT: L1) Engineering Mechanic Introduction: Basic concepts of idealization - particle, continuous and bodied body; Force: Force systems; Basic principles - Independence physical forces, survey, transibility, law of movement, resolution and composition of Newton, forças parallelogram law, polygonal law, resulting from Competitive systems of the Coplanar Force, Coplanar Force System Not competitor: Moment of a force, a couple, varinto theorem, resulting from the forc system not competitor. 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