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Plaxis 3D:

It is a 3D software which uses finite element method analysis to calculate deformation, stability and settlements.

It is widely used to get technical engineering in various applications such as tunneling, mining, embankments and excavations and rock mechanics.

2. GEO Studios

In Geo Studios - There are two software.

Slope-W:

It is used to analyse and slope stability of different types of soils and rocks under different loading and pore water pressure conditions. It can solve both simple and complex problems and by using different theories and it will give you the Factor of safety and it will clearly indicate the

critical slip surface
or we can say
failure surface

Sweep - W:

It is a finite element tool for analysing ground water flow conditions through porous media - It can be applied to simple saturated flow problems as well as for unsaturated flow problems.

DEEP Soil.

It is a 1D
site response analysis
which can perform
both -

o Linear and non linear
analysis -

o Equivalent linear analysis -

Assignment:

BRT:

Bus rapid transport
also called a
busway or transit way
is a bus-based
public transport
system designed to
improve capacity and
reliability real time to
a conventional bus
system. Typically BRT
systems includes roadways
that are dedicated
to buses and gives
priority to buses
at intersections where
buses may interact
with other traffic
along side design
features to reduce
delays caused by

Trans Peshawar :-

Trans Peshawar or Peshawar bus Rapid Transport is a bus rapid transit system currently under construction by Peshawar department Authority (PDA) in Peshawar capital of Pakistan's Khyber Pakhtunkhwa (KP) province. Divide into two separate phases.

- The first phases of the Trans Peshawar BRT system will encompass an east-west corridor to be served by 30 stations with an initial 200 buses.

out of which 155
are 12 meter long
buses while 65

are 18 meter
long buses 88%.

of) funding is
being provided by
the Asian Development
Bank -