



SNS COLLEGE OF TECHNOLOGY
(AN AUTONOMOUS INSTITUTION)
COIMBATORE-35



DEPARTMENT OF CIVIL ENGINEERING

19CET307 – FOUNDATION ENGINEERING
III YEAR / VI SEMESTER

Unit 5- GROUND IMPROVEMENT TECHNIQUES

Topic : STONE COLUMNS



STONE COLUMNS



- It is also called granular piles.
- Stone columns are installed mostly by vibration techniques.
- A cylindrical vertical hole is made first and gravel backfill is placed into the hole in increments and compacted radially. This results in a densely compacted stone column of a certain depth and diameter.
- Stone columns may be arranged to support isolated footings, strip footings, or mat foundations.
- The entire foundation area should be covered with a blanket of sand or gravel at least 0.3 meters.
- It helps to distribute loads uniformly and to facilitate drainage of water conducted out of the soft soil through columns which act as vertical drains as well as reinforcing elements.

