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Introduction Geotechnical Engineering - division of civil engineering concerned with the engineering behavior of earth materials. Soil Mechanics - describes the behavior of soils and determines the relevant physical/mechanical and chemical properties of these soils. Soil - natural mineral particles that can be separated into relatively small pieces and may contain water, air, or organic materials. 3

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“The process in which in-situ soils are improved for the support of the foundations is known as ground improvement”. In the early times before the advancement in the geotechnical engineering, the only chance for the foundation engineers was to design the foundation matching to the sub soil conditions at the provided site.

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Soil Mechanics= Soil+Mechanics. Branch of Science dealing with the structure, Engineering properties and reactions (behavior) of soils under loading and weathering. Which studies theoretically and practically soils for building of structures over it. Knowledge of physics, mechanics, and hydraulics applied to study the behavior of soils.

Linkoping, Sweden, 1995, Courtesy of the Swedish Geotechnical Institute. Proceedings of the Second International Symposium on Cone Penetration Testing, Volume 1 ... Proceedings of the 18th International Conference on Soil Mechanics and Geotechnical Engineering Paris, France, September 2-6, 2013 ... Introduction to Soil Mechanics and Foundations ...

Introduction The purpose of this course is to provide the learner with easy-to-understand introductions to the subjects of geotechnical engineering and soil mechanics. The level of the subjects covered are first year university level and will be easily followed by anyone studying, practicing, or simply interested in, civil engineering.

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The course begins with an introduction to geotechnics and then explains relevant geotechnical concepts and presents relevant structures built with granular materials. Then the geotechnical characterization is studied, presenting in-situ and laboratory tests applied to CQA.

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Soil Mechanics is the application of the laws of mechanics and hydraulics to engineering problems dealing with sediments and other unconsolidated accumulations of solid particles produced by chemical and mechanical disintegration of rocks regardless of whether or not they contain an admixture of organic constituents (Terzaghi,1925).

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