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~~SETTLEMENT COMPUTATIONS PRACTICE PROBLEM 3~~ ~~Mod-01-Lec-01~~ ~~FOUNDATION TYPES~~ Week 1: Lecture 1:

~~Introduction Thermodynamics and Heat transfer Prof S Khandekar~~ ~~How to Design Pad Footings under Eccentric Loading (N and M)?~~

~~Bearing Capacity Of Soil | Bearing capacity of Different types of soil |Soil Settlement Context \u0026~~

~~Overview Shallow Foundation—02 Example of Terzaghi's Equation~~ ~~What is Geotechnical Engineering?~~

~~Example problem on How to determine ultimate bearing capacity of soil~~ ~~Modulus of Subgrade Reaction of Soil (Bowles Approach and Basic Approach)~~ ~~Soil Mechanics and Foundation Engineering Book By DR. K.R.~~

~~ARORA Review~~

~~Geotechnics - How to obtain soil parameters / property - Geotechnical design of retaining structures~~

~~NPTEL Online Learning Material - Introduction Practice Problem 2~~ ~~1-D Lab Consolidation~~ **TERZAGHI'S**

**BEARING CAPACITY THEORY IN DETAIL** Practice Problem 1

~~Lecture 21 : Settlement of Foundation (Contd.)~~ ~~WATER FLOW THROUGH SOILS~~ ~~TERZAGHI'S BEARING CAPACITY~~

~~THEORY~~ **Advanced Foundation Engineering Nptel**

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NPTEL - ADVANCED FOUNDATION ENGINEERING-1 a. Determine the area of the foundation,  $q_{all} = q_{net} + q_{allow}$  (net) [5.1] Where  $q_1 + q_2 =$  column loads  $q_{all}$  (net) = net allowable soil bearing capacity b. Determine the location of the resultant of the column loads. From figure 5.1b.

## **Module 5 (Lectures 17 to 19) MAT FOUNDATIONS**

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Advanced Foundation Engineering by Dr. Kousik Deb, Department of Civil Engineering, IIT Kharagpur. For more details on NPTEL visit <http://nptel.ac.in>. Related Courses. Water Resources Systems Modeling Techniques and Analysis Delivered by IISc Bangalore. FREE. 15 .

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Since 2012, he is involved in teaching various civil engineering core courses, such as Geology & Soil Mechanics, and Advanced Foundation Engineering for UG and PG students. His expertise includes seismic soil-foundation interactions, cyclic behaviour of geomaterials and finite element analysis of complex dynamic problems.

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