

## Advanced Foundation Engineering Nptel

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SETTLEMENT COMPUTATIONS PRACTICE PROBLEM 3 ~~Mod-01-Lec-04~~ *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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Deb has offered course on Foundation Engineering under NPTEL Online Certification Programme.

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NPTEL - ADVANCED FOUNDATION ENGINEERING-1 INTRODUCTION Mat foundations are primarily shallow foundations. They are one of four major types of combined footing (see figure 5.1a). A brief overview of combined footings and the methods used to calculate their dimensions follows: Figure 5.1 (a) Combined footing; (b) rectangular combined footing

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NPTEL - ADVANCED FOUNDATION ENGINEERING-1 a. Determine the area of the foundation,  $A_f = \frac{W}{q_{all}}$  [5.1] Where  $W = W_1 + W_2$  = column loads  $q_{all}$  = 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 Nptel - HPD Collaborative**

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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## **footings - NPTEL ADVANCED FOUNDATION ENGINEERING-1 Module ...**

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.

## **Introduction to Civil Engineering Profession - Course - NPTEL**

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