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NPTEL – ADVANCED FOUNDATION ENGINEERING-I REFERENCES 1. American Society of Civil Engineers (1959). "Timber Piles and Construction Timbers," Manual of Practice, No. 17, American Society of Civil Engineers, New York.

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NPTEL - ADVANCED FOUNDATION ENGINEERING-1 a. Determine the area of the foundation,  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$  +  $\frac{1}{4} \times \frac{1}{4}$  all (net ) [5.1] Where  $\frac{1}{4} \times \frac{1}{4} + \frac{1}{4} \times \frac{1}{4} = 2$  = column loads  $\frac{1}{4}$  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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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

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

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### Allowable Bearing Capacity & Settlement. Advanced ...

NPTEL - ADVANCED FOUNDATION ENGINEERING-1 INTRODUCTION Vertical or near vertical slopes of soil are supported by retaining walls, cantilever sheet- pile walls, sheet-pile bulkheads, braced cuts, and other similar structures.

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