



COLLEGE OF TECHNOLOGY AND ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING
3 YEAR BE I SEMESTER SESSION 2015-16

1. Course Code : **CE 317 (AE)**
2. Course Title : **CONSTRUCTION TECHNOLOGY**
3. Credit : 3(2+1)
4. Theory Lecture Outlines :

1.	Components of a building and their function.
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3.	<i>Foundation:</i> Function, shallow and pile foundation
4.	Causes of failure and remedial measures.
5.	<i>Masonry Construction:</i> English bond and Flemish bond for one bricks thick wall
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7.	<i>Stone Masonry:</i> Types of stone masonry, Essentials of good stone masonry
8.	Concept in Concrete Technology and test on concrete.
9.	<i>Load Carrying Floors:</i> Types, stone patti, timber and R.C.C. floors
10.	<i>Floor Finishing:</i> Lime, Cement concrete, terrazzo, marble and P.V.C. tiles, details of construction
11.	<i>Floor Finishing:</i> Lime, Cement concrete, terrazzo, marble and P.V.C. tiles, details of construction
12.	<i>Roofs:</i> Simple roof trusses, king post roof truss, queen post roof truss.
13.	<i>Earthquake Disaster Management:</i> Introduction, causes of earthquake, their intensities, its effect, safety measures and precautions to face earthquake problem.
14.	Object, Main item of works
15.	the unit of measurement for various item of works & materials
16.	Various methods of building estimate
17.	long wall-short wall methods
18.	centre line method for one & two room building
19.	<i>Organization of Engineering Department :</i> General discussion of P.W.D. accounting & procedure of works classification of work
20.	Contract & contact document
21.	Tender Notice- how to invite tender notice

22.	Opening of tender & various conditions to accept it
23.	Running & Final bill, Earnest money, Security money & measurement book
24.	<i>Valuation</i> : Purpose of valuation
25.	Outgoings, Scrap value, Salvage value
26.	Market value, Book value
27.	annuity capitalized value
28.	Methods of calculating depreciation
29.	Sinking fund depreciation
30.	Valuation of building

Text Books/References

1. S.P. Arora and Bindra. Building Construction. Dhanpat Rai & Sons, New Delhi
2. S.N. Awaasthy. Building Construction, Publishing House, Bhopal.
3. B.N. Datta. (1994). Estimating & Costing in Civil Engineering, Theory & Practice, Publishing Distributors Ltd., New Dehli.

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