LECTURE NOTE

ON

BUILDING MATERIAL & CONSTRUCTION TECHNOLOGY (TH.3)

3RD SEMESTER IN CIVIL ENGG.



PREPARED BY

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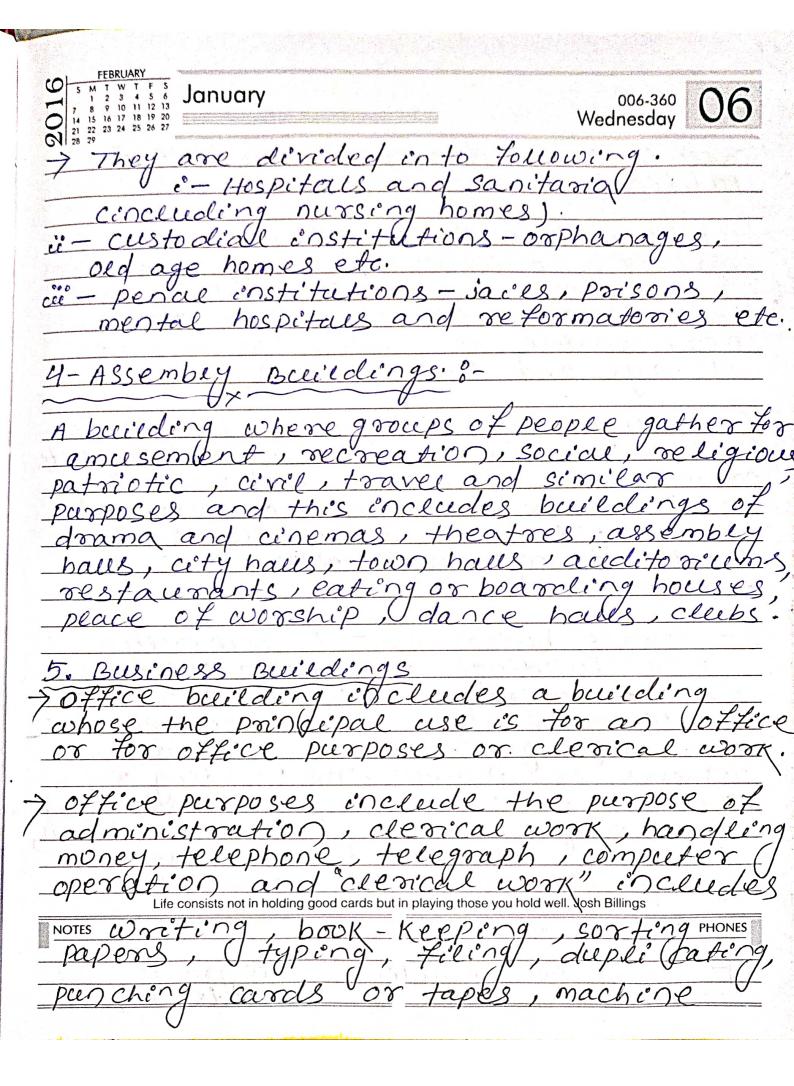
(LECTURER)

DEPARTMENT OF CIVIL ENGG.

G.I.E.T (POLYTECHNIC),JAGATPUR,CUTTACK,ODISHA

CHAPTER-L January Introduction 004-362 Monday 04 Defination of Building. in civil engineering, building is defined as a structure consilting of various components like foundation, walls, colcemns floors and doors etc. to provide adequate covered space for specific uses like residential, educational, industrial and business etc. classification of Building based Building can be classified into groups, based on the occupancy (type of usel 1- Residential buildings. 2- Educational buildings. 3 - Institutional buildings. 4- Assembly beeildings 5- Business buildings 6- Mercantile buildings. 7- Industrial buildings. 8-Storage beeildings 9- Hazabodoces beeilde 1-Residential beeildings Residential buildings must be provided without) NOTES DOTTO Tollow! be provided classified

January 31 M T 005-361
Tuesday c-Lodgeng 08 800 mcng housing 10 11 12 13 14 15 16 0 ci- one of two family private dwelling. ev-Apartment houses. and 5 - Hotels. 2- Educational Buildings. 7 Educational buildings are those building which are enclusively used for a school Board or ceniversity. by the appropriate 7 It shall also coclude quarters for essential staff required to reside in the premises and beeilding used as a hostel, captive to an educational institution whether, situated in its campus or 3-Institutional Buildings o 7 This group includes the buildings constructed by Government, semil Government lorganizations or Register ed Trusts and Vused for medical or other treatment . For an or for an Tum or complex for Honesty is the first chapter in the book of wisdom. - Thomas Jefferson audito vicen persons suffering from Physical
or men-fal cliness, banclicap disease or in firmity care of orphas



CHAPTER-1
31 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 Monday
STONE: The Stones are desined from rocks
which the easth's crust and have no definite
shape or chemical composition but are mintures of two or more minerals.
of the received with the second of the secon
uses of stones:
Following are some important uses of stones in
civil Vengineering works.
15 Co 201 co 11 1 1 2 2
1- construction of residential and public buildings,
- Daletal G
2- construction of dams, wears, harbours,
abut ment for bridges etc.
3- used as road metal and railway ballast
4- Used as aggregate for concretel.
5- Used in the form of veneers for decoratine
front and interior of buildings.
Classification of Rocks:
The rocks from which stones are obtained are
clarsified en four ways.
1- Geological
2-physocal
_3-chemical
-4-Practical.
All life is an experiment. The more experiments you make the better Ralph Waldo Emerson
NOTES 1- Geological classification: - PHONES
Geologically the rocks are classified into

June

