#### **Department of B.E Civil Engineering**



Name: M.Kamran

*I.D:* 7732

Assignment # Mid Paper

Semester: 8<sup>th</sup>

Section: "C"

OS TRULITIES CREATING O

Subject: Construction Management

Submitted to: Engr. Zeeshan Ahad sab

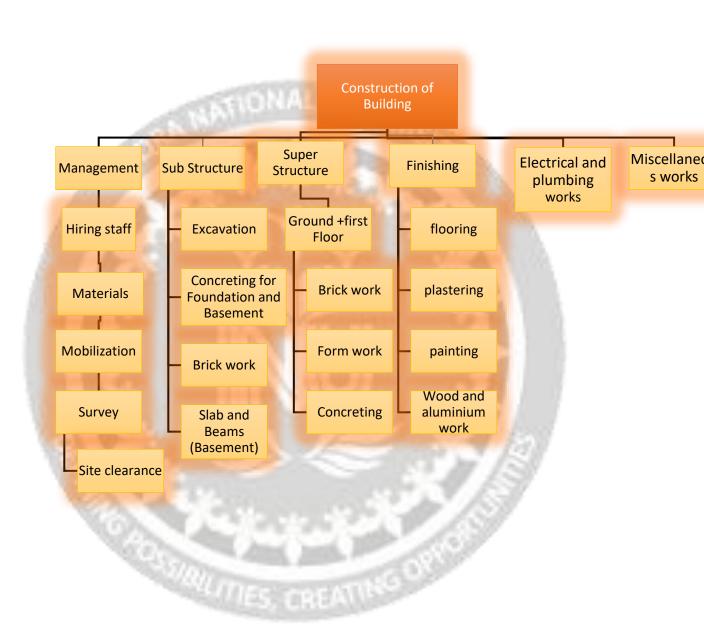
## **4** ACTIVITY LIST:

Following are the activities performed in the construction of house.

ON THE CREATING OF

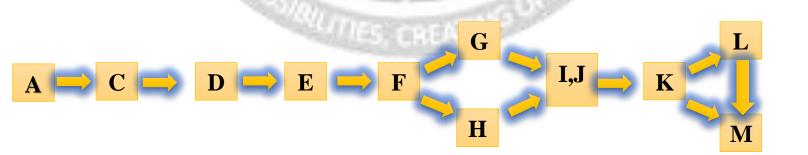
- a) Planning
- b) Survey
- c) Mobilization
- d) Layout
- e) Excavation
- f) Foundation
- g) Columns
- h) Slabs
- i) Brick walls work
- j) Sanitary fitting
- k) Flooring
- 1) Finishing
- m) Wood work
- n) Electrification
- o) Miscellaneous

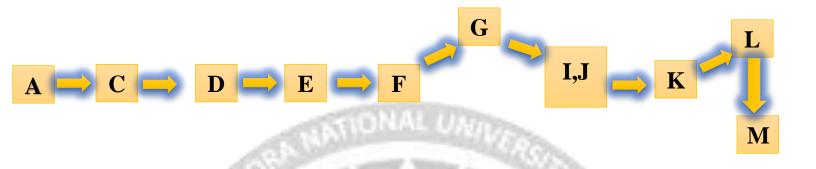
# Work Breakdown structure of building:



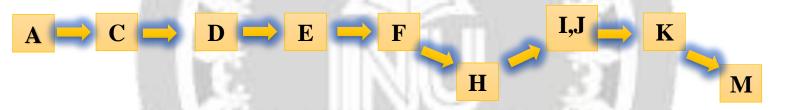
## Critical Path Method:

Activities	Symbol	Predecessors	<b>Duration in days</b>
Survey	A		7
Mobilization	В		7
Grubbing of site	C	A	1
<b>Layout And Excavation</b>	D	C	4
Formwork	E	D	11
Foundation And Column	F	E	9
Concerting Of Beams And Slab	G	F	42
Brickwork	H	F	44
Plumbing And Sanitary Work	I	<b>G,</b> Н	4
Electrification	J	G,H	8
Finishing	K	I,J	32
Flooring	L	K	10
Woodwork	M	K,L	14
Miscellaneous	N		10
100 P-7:5		Total days	203
		<b>Total Months</b>	6.76666667





**Path 1:** A, C, D, E, F, G, IJ, K, L, M =7+1+4+11+9+42+4+8+32+10+14=142DAYS=4.733MONTHS.



Path 2: A, C, D, E, F, H, IJ, K, M = 7+1+4+11+9+44+4+8+32+14=134DAYS=4.466

SO the critical path of the project is path "1" which is equal to 4.733 months.

ALLITES CREATING

### → SLACK FOR THE PROJECT:

Slack = late finish - early finish

A = 1 - 1 = 0

C = 8-8=0

D=9-9=0

E=13-13=0 and so on all values comes zero so no slack

Slack = late start - early start

A = 1 - 1 = 0

C = 8 - 8 = 0

D=9-9=0

sE=13-13=0 and so on all values comes zero so no slack