



FACULTY OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING

ON

SEPTEMBER **30** @ 12.00 AM - 1.00 PM
2020

“Estimating the quantity of RCC Structures”



SPEAKER

Dr. K. Mohan das,

Associate Professor, Department of Civil Engineering,
Malla Reddy Engineering College and Management Science,
Hyderabad, India

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GOOGLE MEET LINK

<https://meet.google.com/stw-rmcx-xvc>

CONVENOR

Dr. N. Balasundaram
HOD & PROFESSOR
CIVIL DEPARTMENT, KAHE.
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Dr. M. Natarajan
PROFESSOR
CIVIL DEPARTMENT, KAHE.

FACULTY COORDINATOR

Mr. V. Johnpaul
ASSISTANT PROFESSOR,
CIVIL DEPARTMENT, KAHE.

Report

Report of **Guest lecture on “Estimating the quantity of RCC Structures” on 30.09.2020 at KAHE Campus.**

As per the initiative of IIC-KAHE, the department of civil engineering has organized a **Guest lecture on “Estimating the quantity of RCC Structures” on 30.09.2020** at KAHE Campus. **Mr. V. Johnpaul AP/CIVIL/KAHE** was assigned as organizing secretary; and the Convenor of this program was Dr. N. Balasundaram, HOD & Professor, Civil Department, KAHE and Dr. M. Natarajan, Professor, Civil Department, KAHE.

Dr. K. Mohandas, HoD & Professor, Department of Civil Engineering, Ashoka Institute of Engineering and Technology, Hyderabad, India was the resource person for the event. KAHE (IV – Year Civil Engineering) students were given idea on the basic of estimation to be followed through this program. It was an eye opener session for the students. Totally 40 Students and 5 faculties of Department of Civil Engineering, KAHE have been benefited by participating in the event.

Session Details:

The resource person shared the key points on the Estimation concepts in RCC Structures.

The key points were discussed in the program as follows

1. Load bearing and framed structures
2. Calculation of quantities of brick work, RCC
3. Residential building with flat and pitched roof

ANALYSIS OF RATES

The determination of rate per unit of a particular item of the work, cost of the quantity of material, the cost of labours and miscellaneous petty expanses require for its compilation is known as **Analysis of rates**.



Guest lecture on “Estimating the quantity of RCC Structures” on 30.09.2020 via Google Meet.

BAR BENDING SCHEDULE FOR MAIN BUILDING REINFORCEMENT										Sheet # A1
S.No	Item Description	Bar Description	No. of Bars	Bar Dia	Cut Length (R)	Total Length (R)	WWR (Nos.)	Total Wt (Nos.)	Shape	
(A)	(B)	(C)	(d)	(E)	(f)	(g)	(h=R/g)	(i)	(j=R*(h))	(l)
Footings										
1	Column footing A-H/1, A-H/3	Long & Short Bars	16 X 12	1/2"	3.081	591.55	0.668	395.16	3"	2'-7" 3"
2	Walls A-H/1, A-H/3	Long Bars	2 X 3	1/2"	62.75	376.50	0.668	251.5	3"	62'-3" 3"
		Short Bars	2 X 80	1/2"	1.5	240.00	0.668	160.32	3"	1' 3"
3	Wall C-H/2	Long Bars	1 X 3	1/2"	45.5	136.50	0.668	91.18	3"	45' 3"
		Short Bars	1 X 55	1/2"	1.5	82.50	0.668	55.11	3"	1' 3"
4	Walls A/I-3, C/I-3, H/I-3	Long Bars	3 X 3	1/2"	26.5	238.50	0.668	159.32	3"	26' 3"
		Short Bars	3 X 32	1/2"	1.5	144.00	0.668	96.19	3"	1' 3"
5	Wall F/I-3	Long Bars	2 X 3	1/2"	17.375	104.25	0.668	69.64	3"	16'-10 1/2" 3"
		Short Bars	2 X 22	1/2"	1.5	66.00	0.668	44.09	3"	1' 3"
6	Wall P-H/2A	Long Bars	2 X 3	1/2"	22.375	134.25	0.668	89.68	3"	21'-10 1/2" 3"



Dr. K. Mohandas, HoD & Professor, Department of Civil Engineering, Ashoka Institute of Engineering and Technology, Hyderabad, India, delivering Lecture to Participants of Guest lecture on “Estimating the quantity of RCC Structures” on 30.09.2020 via Google Meet.