

Shivajirao Kadam Institute of Technology and Management, Indore

Video Lecture Summary

Till 19/06/2021

Date: 20/06/2021

Department Name: **Electronics and Communication Engineering**
 Programme Name: **BE/B.Tech. (ECE)**

S. No.	Subject Code	Subject Name	Name of Faculty	Semester	Number Video Lecture Prepared	Quality of Video Lecture (A= Excellent, B= Very Good, C = Good, D= Average)
1	EC 401	Energy & Environmental	Prof. Nandita Bajpeyl	IV	47	A
2	EC 402	Signals and Systems	Prof. Deepak Pancholl	IV	42	A
3	EC 403	Analog Communication	Prof. Anagha Chougaonkar	IV	42	A
4	EC 404	Control Systems	Prof. Anagha Chougaonkar	IV	44	A
5	EC 405	Analog Circuits	Dr. Vikaram Rathore	IV	50	A
6	EC 406	Simulation Lab	Prof. Sneha Nagar	IV	10	A
7	EC 407	Internship -II	Prof. Anagha Chougaonkar	IV	12	A
8	EC 408	Cyber Security	Prof. Megha Motta	IV	12	A
9	EC601	Digital Signal Processing	Prof. Sneha Nagar	VI	45	A
10	EC602	Antennas and Wave Propagation	Dr. Amit Udawat	VI	39	A
11	EC603A	Deptatmental Elective Data	Prof. Abhishek Rawat	VI	46	A
12	EC604	Microcontroller & embedded system	Prof. Vishal Pawar	VI	44	A
13	EC605	Data Communication Lab	Prof. Abhishek Rawat	VI	NA	A
14	EC606	Microc. and Embb. Systems Lab	Prof. Vishal Panwar	VI	NA	A
15	EC607	Internship -III	Prof. Megha Motta	VI	22	A
16	EC608	Minor Project II	All Faculties	VI	20	A
17	EC 801	Optical Fibre Communication	Prof. Abhishek Rawat	VIII	49	A
18	EC802	Wireless Communication	Dr. Amit Udawat	VIII	27	A
19	EC803	Wireless Network	Prof. Vishal Pawar	VIII	42	A
20	EC 804	Communication Engg. Lab	Prof. Vishal Panwar	VIII	NA	A
21	EC 805	Major Project -II	All Faculties	VIII	36	A
22	BT1004	BEEE	Prof. Deepak Pancholl	I	41	A
23	ME402	Instrumentation & Control	Prof. Sneha Nagar	IV	44	A


HEAD
 Department of Electronics And Communication
 Shivajirao Kadam Inst. of Tech. & MGMT- Technical Campus
 Tillore Khurd, Ralamandal, INDORE (M.P.)

Shivajirao Kadam Institute of Technology and Management, Indore

Lecture, Practical, Assignment/Quiz Uploading Summary

From 10/02/2021 to 19/06/2021

Date:30/06/2021

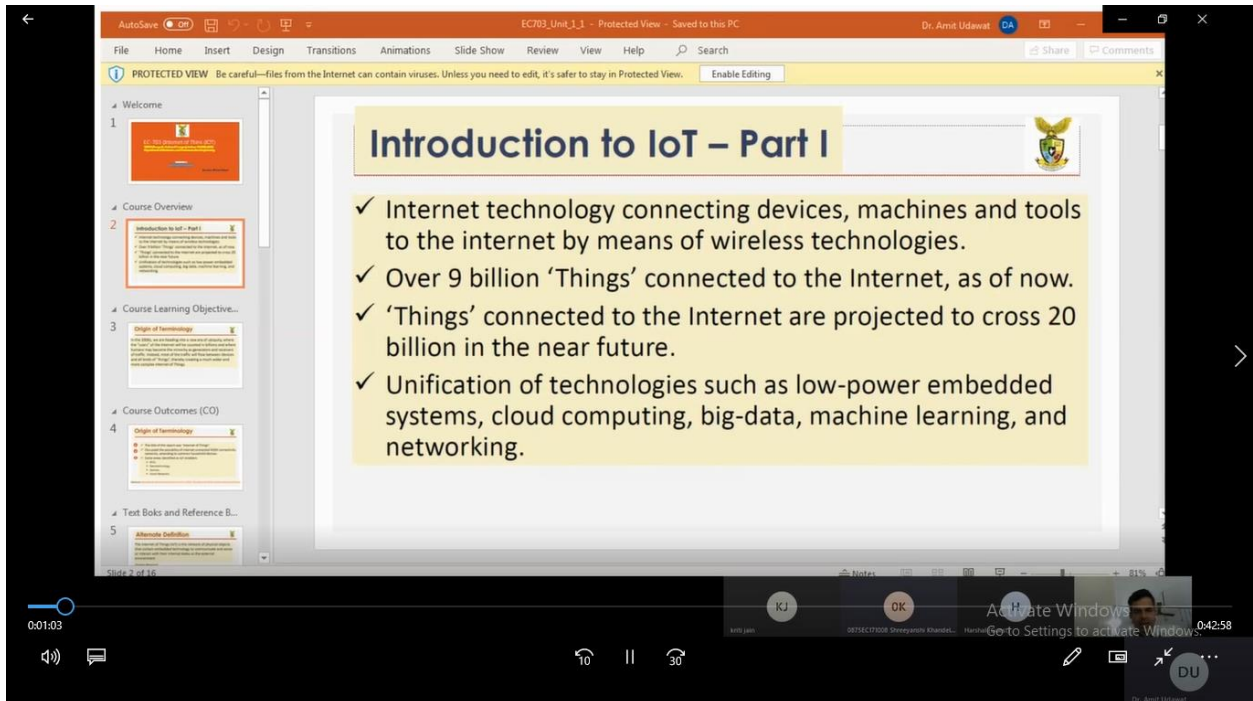
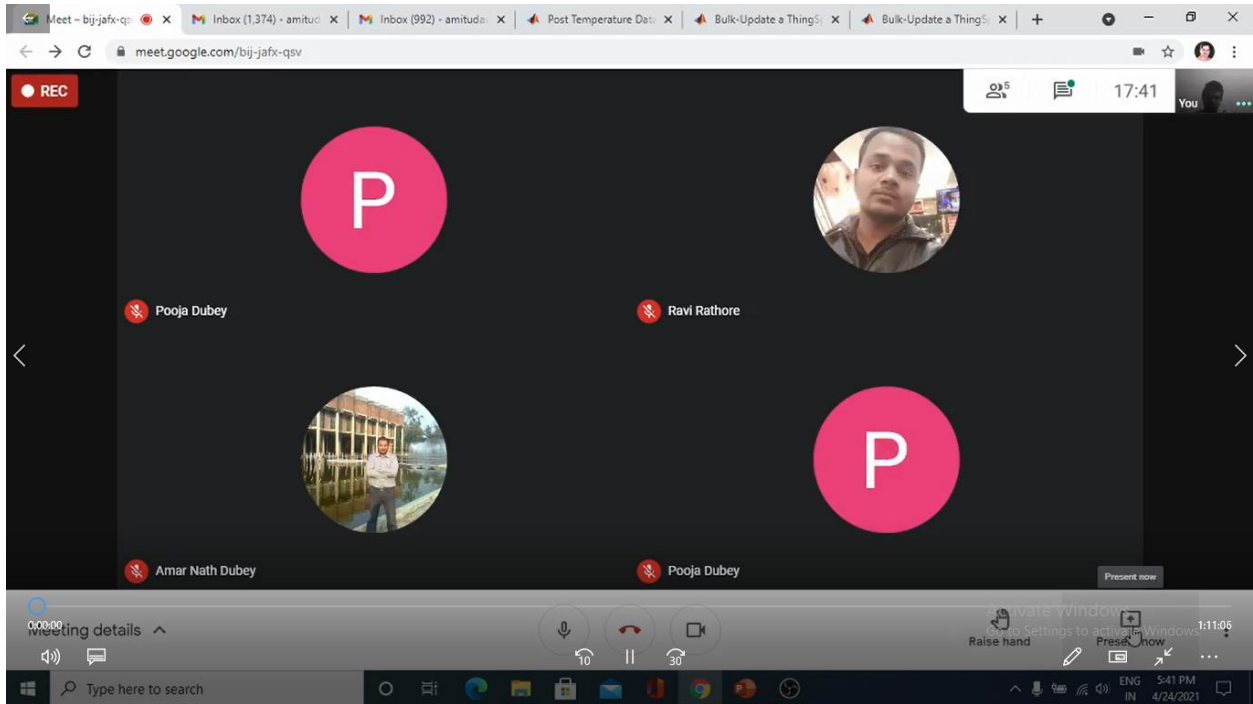
Department Name:
Programme Name:

Electronics and Communication Engg.
BE/B.Tech. (ECE)

S. No.	Subject Code	Subject Name	Name of Faculty	Semester	No. of Theory Lecture Conducted	No. of the Practical Conducted	No. of Assignment/Quiz
1	EC 401	Energy & Environmental Engineering	Prof. Nandita Bajpeyi	IV	45	NA	5
2	EC 402	Signals and Systems	Prof. Dcepak Pancholi	IV	42	10	4
3	EC 403	Analog Communication	Prof. Anagha Chougankar	IV	42	10	4
4	EC 404	Control Systems	Prof. Anagha Chougankar	IV	44	10	4
5	EC 405	Analog Circuits	Dr. Vikaram Rathore	IV	50	10	4
6	EC 406	Simulation Lab	Prof. Sneha Nagar	IV	NA	10	4
7	EC 407	Internship -II	Prof. Anagha Chougankar	IV	12	NA	NA
8	EC 408	Cyber Security	Prof. Megha Motta	IV	12	NA	3
9	EC601	Digital Signal Processing	Prof. Sneha Nagar	VI	45	12	5
10	EC602	Antenna & Wave Propagation	Dr. Amit Udawat	VI	44	18	4
11	EC603A	Deptatmental Elective Data Communication	Prof. Abhishek Rawat	VI	46	NA	5 and 8
12	EC604A	Open Elective Microc. and Embb. Systems	Prof. Vishal Panwar	VI	44	NA	2
13	EC605	Data Communication Lab	Prof. Abhishek Rawat	VI	NA	13	NA
14	EC606	Microc. and Embb. Systems Lab	Prof. Vishal Panwar	VI	NA	14	NA
15	EC607	Internship -III	Prof. Megha Motta	VI	22	22	NA
16	EC608	Minor Project II	All Faculties	VI	20	38	NA
17	EC 801	Optical Fibre Communication	Prof. Abhishek Rawat	VIII	49	13	5 and 6
18	EC 802	Deptatmental Elective Wireless Comm.	Dr. Amit Udawat	VIII	32	NA	3
19	EC 803	Open Elective Wireless Network	Prof. Vishal Panwar	VIII	42	NA	2
20	EC 804	Advanced Communication Engg. Lab	Prof. Vishal Panwar	VIII	NA	17	NA
21	EC 805	Major Project -II	All Faculties	VIII	36	28	NA
22	BT1004	BEEE	Prof. Deepak Pancholi	I	41	10	4
23	ME402	Instrumentation & Control	Prof. Sneha Nagar	IV	44	10	5



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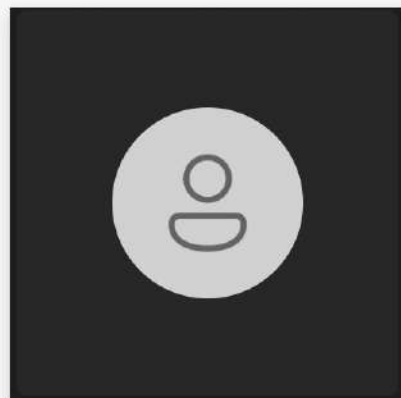
R.C.C Work & Structures

Reinforced Cement Concrete work is usually estimated under **2 items**.

1. The **concrete work** including centering & shuttering & binding of steel bars in position is taken under one item in **m³**.
2. The **steel reinforcement** & its bending is taken under a separate item in **quintals (cwt) or Kg or tones**.

The quantity of steel being small, no deduction is made for steel from the volume of concrete.

Binding wire is not taken separately, but included in item of R.C.C work.



R.C.C Work & Structures

- In the absence of detailed design, the percentage of steel reinforcement is taken as:

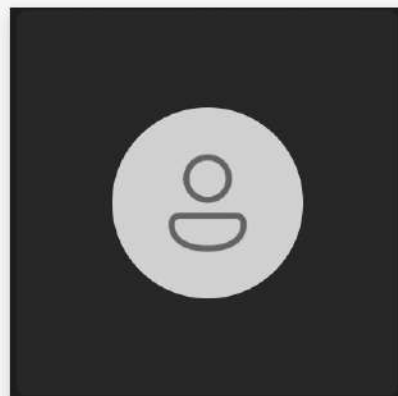
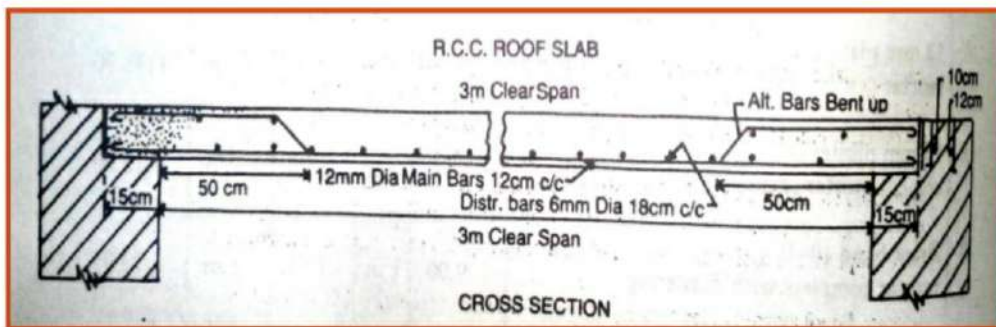
Section	Steel Percentages
1. Beams	1 to 2 %
2. Columns	1 to 5 %
3. Lintels, slabs	0.7 to 1 %
4. Foundations	0.5 to 0.8 %

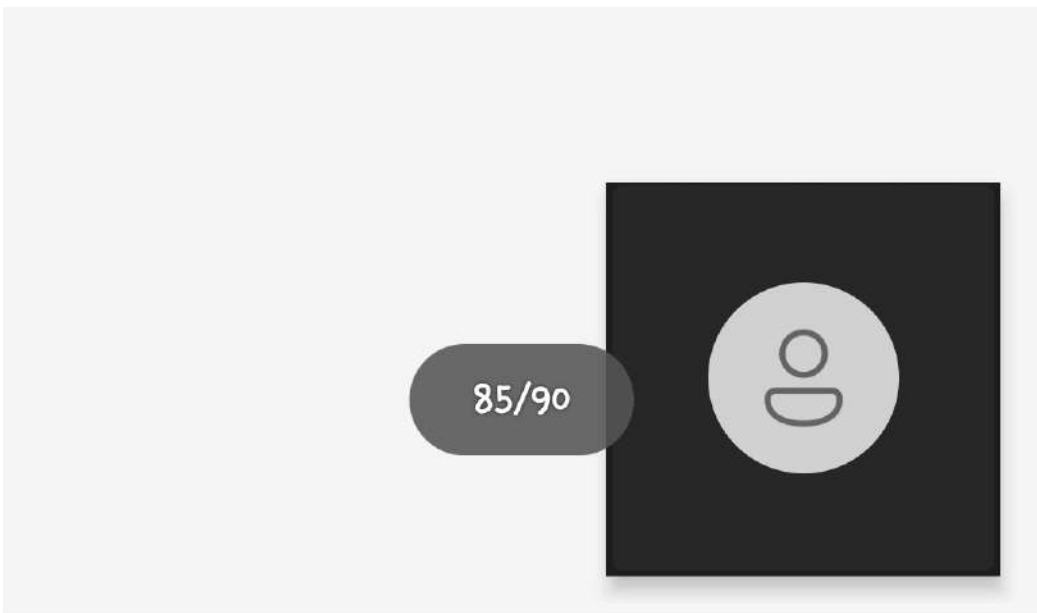
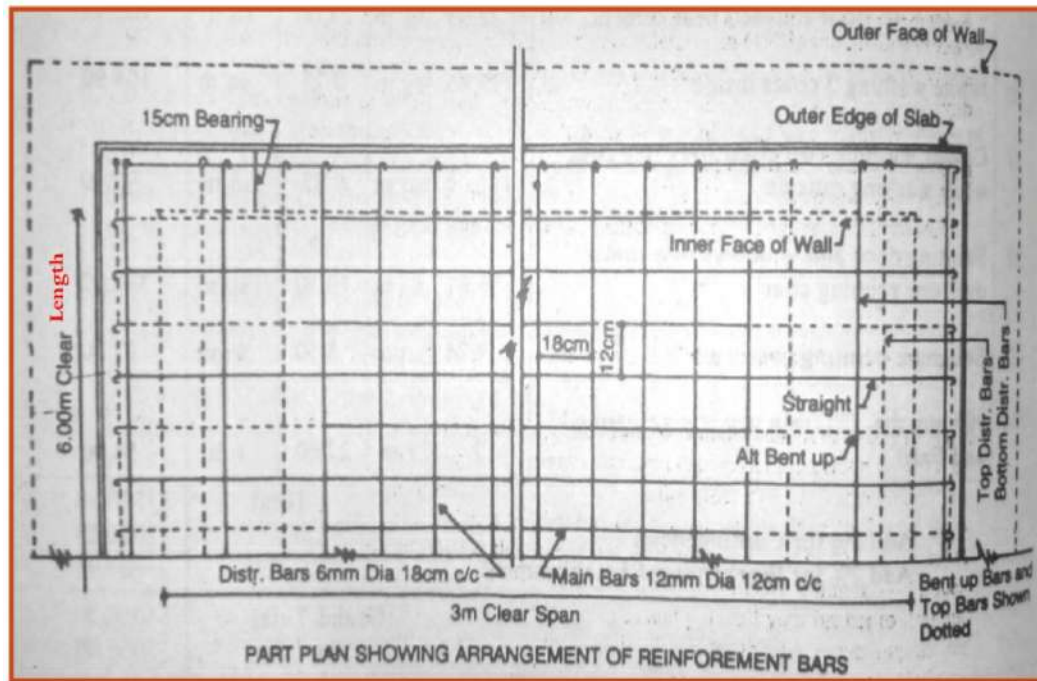
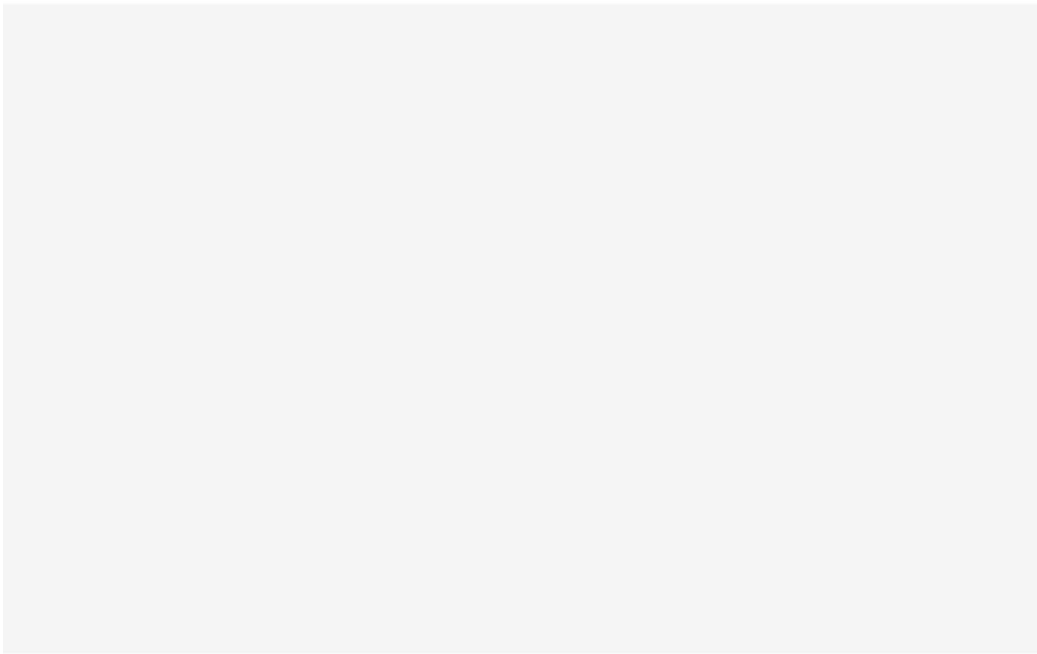


Problem # 1: Estimate of R.C.C Roof Slab

Internal distance from one support to the other

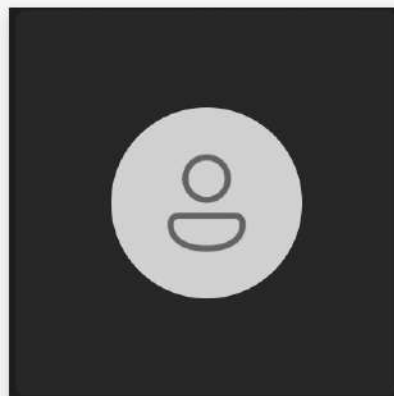
Prepare a detailed estimate of R.C.C Roof Slab of 3 m clear span and 6 m long from the given drawings. R.C.C. work including centering and shuttering and steel reinforcement in detail shall be taken separately. Clear cover of concrete on all side is 4 cm.





Details of Measurement and Calculation of Quantities (Ex. 2)

Item No.	Particulars of items and details of works	No.	Length m	Breadth m	Height or Depth m	Quantity	Explanatory notes
1	R.C.C. work 1 : 2 : 3 excluding steel and its bending but including centering and shuttering and binding steel	1	6.30	3.30	0.12	2.495 cu m	No deduction for steel bars.
2	Steel bars including bending (mild steel in R.C.C work— Main bars 12 mm dia. @ 0.89 kg/m						Main bars are mostly the lowest bars in the cross-section
	Straight bars 24 cm c/c (No = $\frac{6.30 - .08}{.24} + 1 = 27$)	27	3.44				Two sides, concrete clear cover = 0.04×2 Side cover 4 cm $L = 3.30 - 2 \text{ side covers} + 2 \text{ hooks} = 3.30 - .08 + (18 \times .012) = 3.44 \text{ m}$
	Bent up bars 24 cm c/c (No = $\frac{6.30 - .08}{.24} = 26$)	26	3.52				Distance between two consecutive main straight bars Length of straight bar + 1 depth of bent bar Adding one depth 8 cm for two bent ups.
	Total		184.40	@ .89	kg/m	$= 184.40 \times .89 = 164.12 \text{ kg}$	

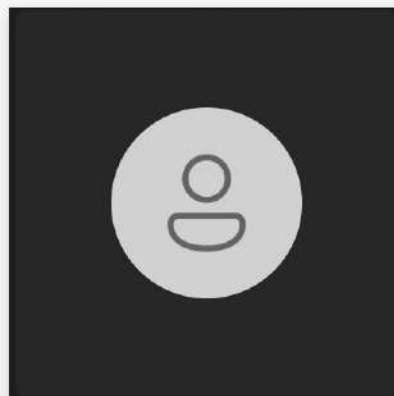


Distribution bars 6 mm (dia. @0.22 kg/m)–			=184.40	×.89=	164.12 kg
Bottom bars central portion 18 cm c. c.	3 - 0.50 each = 2 m				
(No = $\frac{2.00}{.18} - 1 = 12$)		12	6.33		$l = 6.30 - .08 + (18 \times .006) = 6.33 \text{ m}$
Bottom bars two sides	2 × 3	6.33			
Top bars two sides	2 × 3	6.33			
	Distance between two consecutive distribution bars				
	2 sides		Total	51.92	
	$(50 + \text{bearing-clear cover}) / 18$			51.92	
				@ .22	kg. m
				× .22 =	33.42 kg.
				Total	197.54 kg
					= 1.975 quintal
					1 quintal = Kg/100

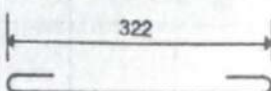
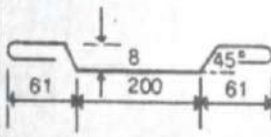
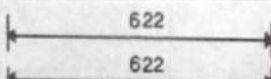
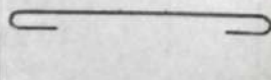
ABSTRACT OF ESTIMATED COST

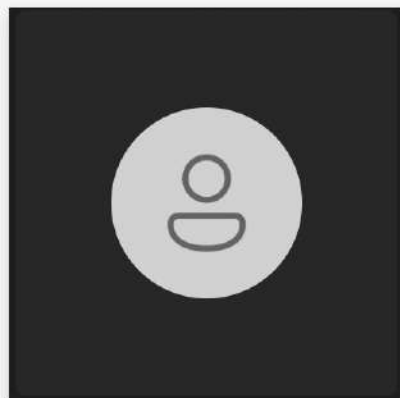
1. R.C.C. work 1 : 2 : 4 excluding steel and its bending but including centering and shuttering and bending of steel	2.495 cu m @ 675.00 per cu m = Rs. 1684.12
2. Steel bars including bending (mild steel) in R.C.C. work	1.975 q @ 515.00 per quintal = Rs. 1017.13
	Total Rs. 2701.25
	Add 5% for Contingencies and Workcharged Establishment Rs. 135.06
	Grand Total Rs. 2836.31

(Schedule of bars given in the next page 232.)



SCHEDULE OF BARS-- R. C. C. SLAB

DESCRIPTION OF BARS	SHAPE OF BENDING DIMENSIONS IN cm.	LENGTH OF EACH m	NO.	TOTAL LENGTH m	WEIGHT kg.
MAIN STRAIGHT BARS 12 mm. DIA		$322 + 18 * \text{dia.} = 322 * 18 * 12$	27	92.88	
MAIN BENT UP BARS 12mm. DIA		$(200+61+61)+18 * \text{dia}+2*0.42* \text{Depth}$	26	91.52	
BOTTOM DISTRIBUTING BARS 6mm. DIA		6.33	18	113.94	
TOP DISTRIBUTING BARS 6 mm. DIA		6.33	6	37.98	
				151.92	33.42



Note.-- (i) Centering and shuttering are included in the R. C. C. work. If centering and shuttering are paid separately, the area can be found as below :--

Area of centering and shuttering $6.00 \text{ m} \times 3.00 \text{ m} = 18 \text{ sq m.}$

Cost of centering and shuttering @ Rs. 20.00 per sq m = $18 \times 20.00 = \text{Rs. } 360.00$

(ii) For over-lapping at joints of bars and wastage 5% of the total steel may be added.

Note.-- For two hook lengths take 18 dia. of bar For 45° bent ups at both ends add one depth in between bars.

Weight of any bar can be calculated by the following formulae

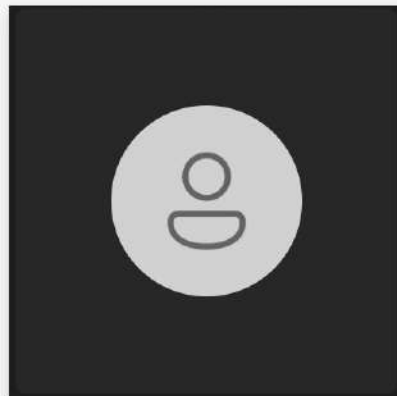
Weight = cross sectional area \times Length \times density
 $= [\pi(\text{diameter})^2/4] \times \text{Length} \times \text{Density}$

As normally Diameter is measured in "mm"

And density of mild steel is approx. 7850 kg/m^3

And also considering value π of as 3.14

So, **Weight** = $[3.14 \times \text{diameter}^2 / (4 \times 1000 \times 1000)] \times \text{Length} \times 7850$
 $= \text{diameter}^2 \times \text{Length} \times 0.00616225$
 $= (\text{diameter}^2 \times \text{Length}) / 162$



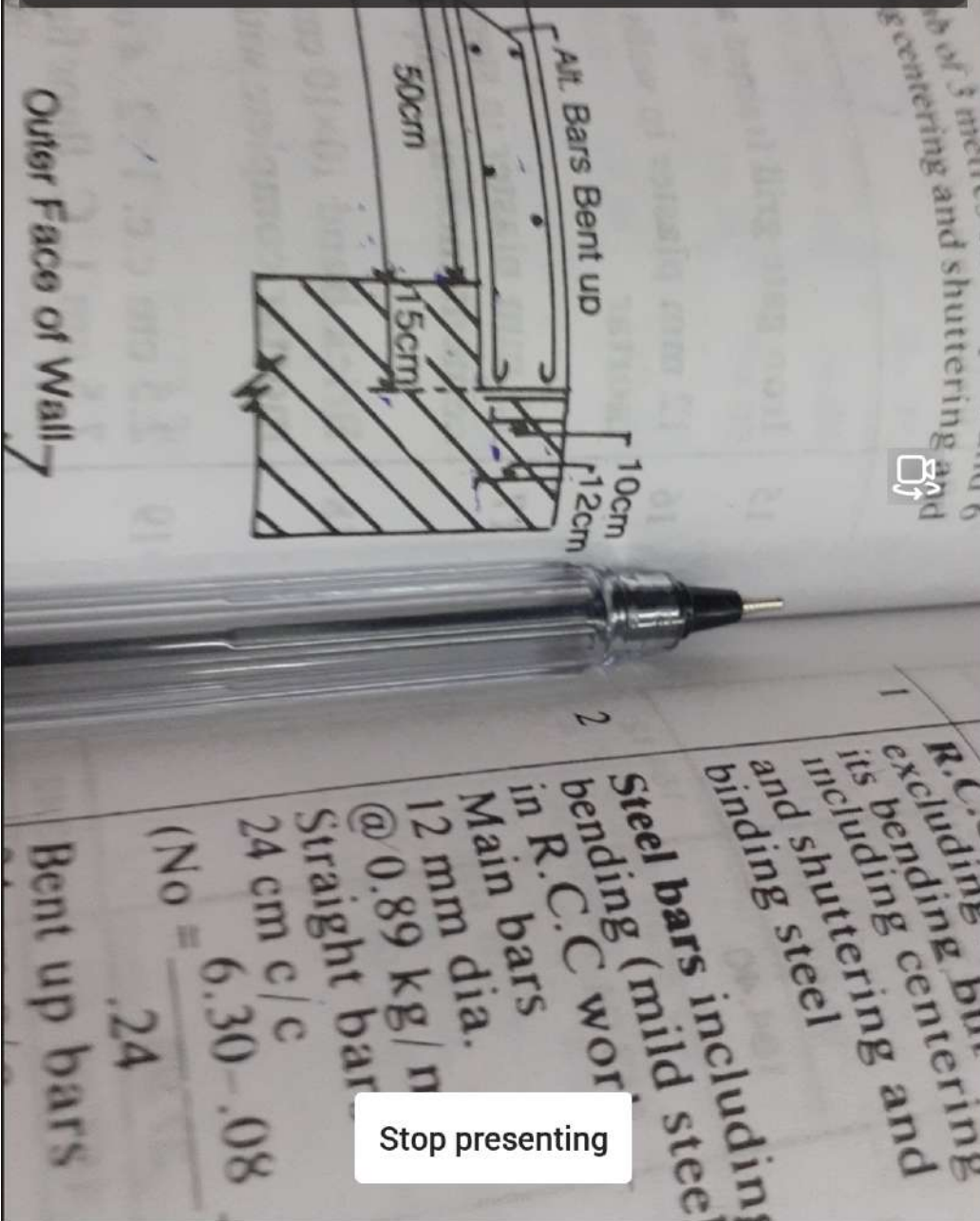


CE-503(C) QSC, Date- ...

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Jai Suryawan...



Vivek Prajapa...



Shivajirao Kadam Institute of Technology and Management, Indore

Video LMEtute Summary

Till 06/06/2020

Date: 05/06/2020

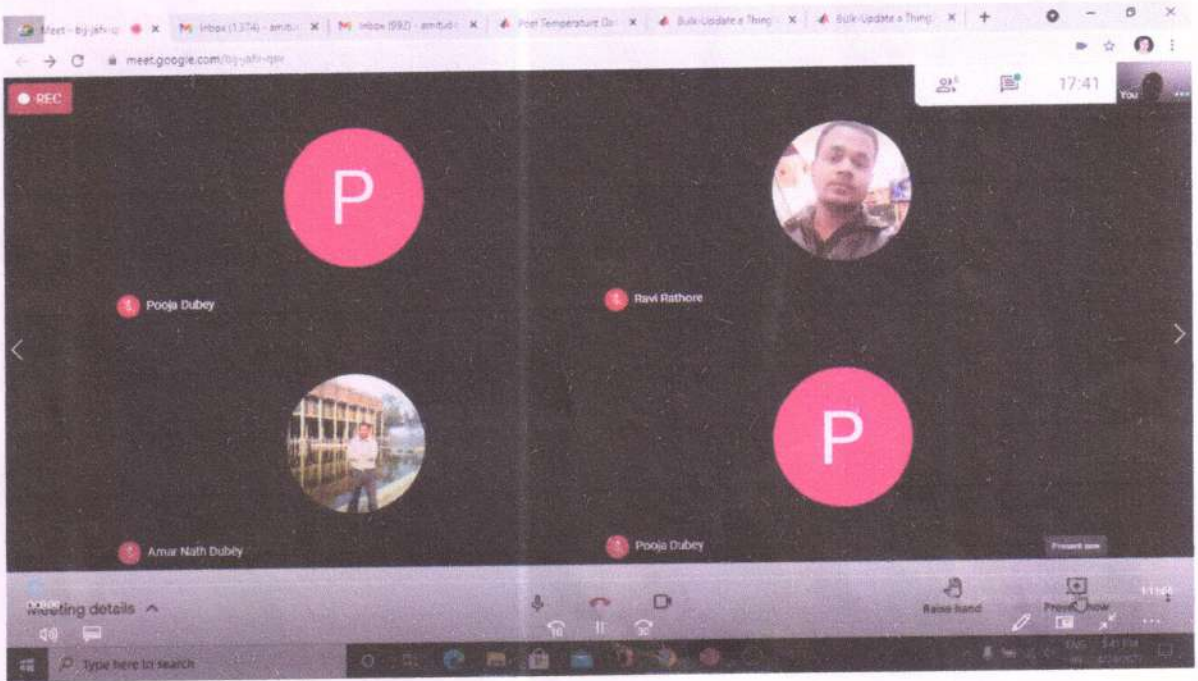
Department Name:
Programme Name:

Mechanical Engineering
BE/B.Tech

S. No.	Subject Code	Subject Name	Name of Faculty	Semester	Number Video LMEtute Prepared	Quality of Video LMEtute (A= Excellent, B= Very Good, C = Good, D= Average)
1	ME602	Machine Component Design	Mahesh Pophaley	VI	14	A
2	ME805	Major Project	Chandra Shekhar Koria	VIII	15	A
3	ME803	ECMA	Narendra Sharma	VIII	19	B
4	ME 404	Fluid Mechanics	Ritesh Rathore	IV	11	C
5	ME 405	Manufacturing Technolgy	Pankaj Carpenter	IV	12	C
6	ME 802	Automobile Engineering	Vikash Kumar Tiwari	VIII	16	B
7	ME603A	Turbo Machinery	Gajanan Parsharam Zalte	VI	5	C
8	ME402	Instrumentation & Control	Dheeraj Jain	IV	22	A
9	BT105	Engineering Drwaing	Ganesh Chouhan	II	15	A
10	ME604C	RET	Umashanker Prajapati	VI	15	C
11	ME-601	TEGD	Ankush Katheria	IV	16	B
12	ME-402	Instrumentation & Control	Vivek Shukla	III	14	B
13	ME804	Simulation & Modeling	Kartik Upadhyay	VIII	18	B
14	ME403	Theroy of Machine	Gajendra Katheria	IV	13	A

Total 205

Director
Shivajirao Kadam Institute of Technology &
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